



# Uniting the World through Sport Science

24<sup>th</sup> Annual Congress of the European College of Sport Science  
ECSS Prague 2019 – Czech Republic, 3 – 6 July

## Final Programme

**Hosted by**  
Charles University



## Welcome to Prague



Dear colleagues,

As the Congress President and on behalf of Charles University I would like to warmly welcome you as distinguished guests to attend the 24<sup>th</sup> Annual Congress of the ECSS in Prague, Czech Republic, from the 3 - 6 July, 2019. Building on the success and innovation of previous meetings, ECSS 2019 will feature a wide range of sessions and learning opportunities showcasing the latest research and developments in the Sport Sciences hosted by leading international experts.

The conference will take place near to the heart of the city at the newly rebuilt Congress Centre overlooking the Prague Castle and river Vltava, surrounded by all the amenities this old and dynamic city has to offer.

The conference will bring experts from around the world to provide specific research in the field of Sport Sciences and the experience and vision of professionals who are dedicated to one of the most fascinating areas of Sports. Physical activity and sport represent in our era one of the strategies to alleviate chronic diseases and improve the quality of life.

At this Congress you will have the opportunity to not only expand your network but also to be privy to presentations that incorporate a wide variety of topics connected with Sport. In the view of the much-needed discussions on these topics, with this congress we aim to bring together renowned regulatory experts, representatives from academia, research entities, pharmaceutical, biomedical and sport device industries and leading authorities and to provide a platform for exchange of essential knowledge and information in a stimulating social and professional setting.

We are looking forward to seeing you in Prague!

Prof. Dr. Václav Bunc, Ph.D

*(Faculty of Physical Education and Sport, Charles University)*

# Organisation

## Organisation

### CONGRESS PRESIDENT

Václav Bunc (CZ)

### ECSS EXECUTIVE BOARD

Joan L. Duda - President (GBR)  
Tim Cable - Past President (GBR)  
Erich Müller - President Elect (AUT)  
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Janice L. Thompson (GBR)

### ECSS OFFICE

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Elias Tsolakidis (GRE)  
Steffen Neubert (GER)  
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Küllü Teimann (EST)  
Alexandra Závadská (SVK)  
Masooma Bibi (PAK)  
Kate Nuttall (GBR)

### CHAIR ORGANIZING COMMITTEE

Marie Skalská (CZ)

### LOCAL ORGANIZING COMMITTEE

Marie Skalská (CZ)  
Lucie Kalkusová (CZ)  
Eva Prokešová (CZ)  
Miroslav Semerád (CZ)  
Tomáš Vetrovský (CZ)

### LOCAL SCIENTIFIC COMMITTEE (CHAIRS)

Václav Bunc (CZ)  
Jiří Baláš (CZ)  
Ladislav Cepicka (CZ)  
Jiří Radvanský (CZ)

### LOCAL SCIENTIFIC COMMITTEE (MEMBERS)

Václav Bunc (CZ)  
Jiří Baláš (CZ)  
Ladislav Cepicka (CZ)  
Jiří Dostál (CZ)  
Karel Fromel (CZ)  
Lenka Kovárová (CZ)  
Jiří Radvanský (CZ)  
James Tufano (CZ, USA)  
Martin Zvonar (CZ)  
Stanislav Machac (CZ)

### REVIEWING PANEL

Stephen Bailey (GBR)  
Nick Ball (AUS)  
Bill Baltzopoulos (GBR)  
Gregory Bogdanis (GRE)  
Leigh Breen (GBR)  
Neil Cronin (FIN)  
Rosa Dikemüller (AUT)  
Marije Elferink-Gremser (NED)  
Sally Fenton (GBR)  
Christopher Gaffney (GBR)  
Dominic Gehring (GER)  
Daniel Green (AUS)  
Sydney Grosprêtre (FRA)

Amelia Guadalupe Grau (ESP)  
Mette Hansen (DEN)  
Ilkka Heinonen (FIN)  
Jaak Jürimäe (EST)  
Marko Laaksonen (FIN)  
Robert Lamberts (RSA)  
Andrew Lane (GBR)  
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Stefan Josef Lindinger (AUT)  
Jamie McPhee (GBR)  
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David Morales-Alamo (ESP)  
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Wolfgang Taube (SUI)  
Dick Thijsen (GBR)  
Lex B Verdijs (NED)

### HEAD OF VOLUNTEERS

Tomáš Brtník (CZ)



## General Information

### VENUE

The Prague Congress Centre (PCC) is the largest congress centre in the Czech Republic and is the symbol of Czech dignity. An extensive park complex of Vyšehrad is also located in the immediate vicinity. This park is often an ideal place of rest and relaxation for the participants of events and visitors of the Prague Congress Centre which is directly next to the Vyšehrad station of metro line C.

#### The Prague Congress Center

5. května 1640/65  
Nusle  
140 00 Prague 4  
Czech Republic

### CONGRESS OFFICE AND REGISTRATION

The congress registration desks and information desks are located in the entrance hall on the ground floor.

#### OPENING HOURS

- Wednesday, 3 July, 08:00 – 18:00
- Thursday, 4 July, 08:00 – 18:00
- Friday, 5 July, 08:00 – 18:00
- Saturday, 6 July, 08:00 – 16:00

#### REGISTRATION FEES

The registration fee for participants includes:

- Admission to all scientific sessions
- Admission to the exhibition
- Admission to the Opening Ceremony
- Admission to the Opening Reception\*
- Congress material (congress bag, final programme (print), book of abstracts (print on demand): EUR 25\*/EUR 35 on-site)
- Coffee or tea breaks (4) and lunches (4)\* at the congress venue

- Admission to the Closing Ceremony
- Admission to the Congress Party\*

\*pre-booking required

#### THE REGISTRATION FEE FOR ACCOMPANYING PERSONS INCLUDES:

- Admission to the exhibition
- Admission to the Opening Ceremony
- Admission to the Opening Reception\*
- Congress material (congress bag, final programme (print), book of abstracts (print on demand): EUR 25\*/EUR 35 on-site)
- Coffee or tea breaks (4) and lunches (4)\* at the congress venue
- Admission to the Closing Ceremony
- Admission to the Congress Party\*

\*pre-booking required

Please note that accompanying persons do not have admission to scientific sessions.

#### THE REGISTRATION FEE FOR ADDITIONAL EXHIBITORS (MINIMUM OF TWO FREE DELEGATES PER COMPANY) INCLUDES:

- Admission to all scientific sessions
- Admission to the exhibition
- Admission to the Opening Ceremony
- Admission to the Opening Reception\*
- Congress material (congress bag, final programme (print), book of abstracts (print on demand): EUR 25\*/EUR 35 on-site)
- Coffee or tea breaks (4) and lunches (4)\* at the congress venue
- Admission to the Closing Ceremony
- Admission to the Congress Party\*

\*pre-booking required

### CONGRESS STAFF

The congress staff will be available to answer any questions about the congress programme, the location of the lecture halls, rooms, and meals

etc. Staff members can be identified by purple shirts with the ECSS and congress logos.

### SUSTAINABILITY AT THE CONGRESS

Did you know that the PCC strives for sustainable operation?

Annually saving 11 533m<sup>3</sup> of water (3 Olympic pools), 9 740 945 kWh of energy (consumption of 5019 households) and 726 tons of CO<sub>2</sub> that would take one year for 33 456 trees to absorb, the PCC follows a sustainable path. With the available digital navigation system with over 190 flat screens and mobile application for inhouse navigation the use of paper can be eliminated to a large degree. Also using energy-saving LED lights helps in the overall energy saving concept.

The Prague Congress Centre offers a sustainable catering solution based mainly on local seasonal products eliminating logistics and carbon footprint as well as avoiding plastic diner ware and excess food thanks to careful planning with the organizer.

# General Information

## SCIENTIFIC PROGRAMME

Researchers and scholars from all over the world contribute to the scientific programme and address the congress theme "Uniting the World through Sport Science". Thereby, the programme highlights the multi- and interdisciplinary character of the field examining physical activity, exercise, and sports from theoretical, empirical and applied viewpoints, and from molecular to societal contexts. This variety is achieved by allocating a total of 1,881 abstracts to the following session types:

- 4 plenary sessions
- 35 invited sessions
- 138 oral sessions
- 76 conventional print poster sessions
- 479 e-posters (not debated)

### YOUNG INVESTIGATORS AWARD (YIA), SPONSORED BY EUROPEAN JOURNAL OF SPORT SCIENCE (EJSS)

ECSS has received 368 applications for this year's YIA. Out of those, 112 have met the administrative requirements for the YIA, and after a thorough review, have entered the final stage of the competition. All YIA candidates will present their papers in front of the judging committee in Prague. The applicants are competing for 14 prizes, 10 oral and 4 conventional print poster categories. This year we have received a smaller number of conventional print poster submissions than usual, and the number of conventional print poster prizes have been reduced proportionally (to 4).

The Scientific Board and the Scientific Committee will select the 10 best presentations from oral and 4 from conventional print poster categories. Four finalists of the oral presentations will present their papers again. They will have 15 minutes each: 10 minutes presentation time and 5 minutes to answer questions from the Scientific Board and/or Scientific Committee on Saturday afternoon, 6 July. Following a final evaluation by the ECSS Scientific Board and Committee, the winner will be announced and the top four will receive their prizes at the YIA ceremony. The other winners will receive their certificate and prizes on Thursday evening, 4 July at the Uniting Excellence in Sport Science Cocktail Reception in the Bellevue Hall in Corinthia Hotel Prague.

- The top 10 candidates of oral and the top 4 candidates of conventional print poster category will be announced latest on Thursday afternoon, 4 July at the ECSS congress booth.
- The 14 winners will be invited to join the Uniting Excellence in Sport

Science Cocktail Reception event taking place on the evening of Thursday, 4 July at the Corinthia Hotel Prague at 20:30. In order to receive the certificate and prize money, all prize winners are asked to be present at the Uniting Excellence in Sport Science Cocktail Reception and attendance is obligatory for all 2019 YIA Winners (10 oral and 4 conventional print posters).

- Prize winners who do not attend and accept their prize within the framework of the Uniting Excellence in Sport Science Cocktail Reception on Thursday, 4 July, cannot be considered for the award prize.

### PRIZE MONEY

Generous cash prizes for YIA finalists are provided by European Journal of Sport Science (EJSS).

### ORAL PRESENTATIONS

- 1<sup>st</sup> – EUR 4,000
- 2<sup>nd</sup> – EUR 3,000
- 3<sup>rd</sup> – EUR 2,000
- 4<sup>th</sup> – EUR 1,000
- Equal 5<sup>th</sup> – EUR 500

### CONVENTIONAL PRINT POSTER PRESENTATIONS

- 1<sup>st</sup> – EUR 3,000
- 2<sup>nd</sup> – EUR 2,000
- 3<sup>rd</sup> – EUR 1,000
- 4<sup>th</sup> – EUR 500

## GSSI NUTRITION AWARD

Abstracts submitted in the area of nutrition, in oral or conventional print poster formats, have been able to opt in to apply for the GSSI Nutrition Award during the abstract submission process. A reviewing panel has selected the top six candidates of all submissions to present their work in front of the GSSI Nutrition Award panel on Wednesday, 3 July. The winners will be awarded at the GSSI Award Ceremony (Wednesday, 3 July, 2019, 19:00, Congress Hall).

### PRIZE MONEY

- 1<sup>st</sup> – EUR 3,000
- 2<sup>nd</sup> – EUR 1,500
- 3<sup>rd</sup> – EUR 500

## TRAVEL GRANTS

### YIA TRAVEL GRANT

4 YIA Travel Grants (500 EUR each) have been distributed for ECSS Prague 2019 to applicants from DAC List of ODA Recipients.

One YIA Travel Grant sponsored by the Official ECSS Publishing Partner - Routledge Taylor and Francis and one by ECSS Bronze Partner – Kistler.

### ECSS TRAVEL GRANT

3 ECSS Travel Grant (500 EUR each) have been distributed for ECSS Prague 2019 to applicants from DAC List of ODA Recipients.

### GSSI YOUNG SCHOLAR TRAVEL GRANT

3 GSSI Young Scholar Travel Grants (2000 EUR each) have been distributed for ECSS Prague 2019 to applicants outside of Europe.

## PRESENTATION REGULATIONS AND SPEAKERS READY ROOM

### ORAL SESSIONS

#### BEFORE

The Speakers Ready Room is located in the Room 2.1 on the 2nd floor of the PCC. Please locate your lecture hall well in advance of your session and familiarise yourself with the setup. The format for invited and oral presentations is PowerPoint (16:9). All PowerPoint presentations must be pre-uploaded in

the Speakers Ready Room. This must be done the day before your session and as early as possible on Wednesday for sessions on that day. Once in your session meeting room, please check that the file is available on the PC and that it is functional. Note that private laptops cannot be used. All presenters must be available at the respective meeting rooms 15 minutes before the session starts. Please introduce yourself to the session Chair(s). There will be one or two volunteers in each meeting room to help with the logistics, IT, and timing of presentations.

## DURING

The Chair will introduce you and call you to speak (name, institution, title of presentation, and if the speaker is running for YIA). Please keep to the exact timeline for the session:

- 10 minutes presentation
- 5 minutes discussion

A volunteer will show you (and the Chair) a yellow card at 9 minutes and a red card at 10 minutes, in order to guide you with the timing of your presentation. When necessary, a red card will be shown to you again after the allocated 15 minutes, in order to advise you and the Chair to move on to the next presentation.

## AFTER

Please clear the room as soon as possible at the end of the session as the next session will start within 15 minutes.

## CONVENTIONAL POSTER SESSIONS

Prepare your poster (Size A0, height: 120cm, width: 90cm) before the congress and bring it with you to the venue. There will be a chaired poster session at the indicated time slot. You will have 3 minutes to present the poster and 2 minutes for discussion. Pin up your poster at the designated spot (poster board in Forum Hall on level 2) at 08:00 in the morning of the day of your presentation. Remove your poster at 18:00 on the evening of the day of your presentation. Posters that have not been removed by 18:00 will be removed by ECSS.

## CONGRESS LANGUAGE

The official congress language is English. No simultaneous translation will be provided.

## MEALS AND COFFEE BREAKS

Congress lunches (if pre-booked) and coffee breaks are included in the fee congress participants have paid. The lunches will be served in the Exhibition Area (foyer on the second floor) from Wednesday to Saturday. Coffee breaks alike are served in the Exhibition Area (foyer on the second floor) from Wednesday to Saturday.

## LUNCH TICKETS (IF PRE-BOOKED)

Participants have been asked to pre-book lunches, indicating special dietary requirements. They will receive a lunch ticket for each day (Wednesday, Thursday, Friday and Saturday) at the registration desk upon arrival. For those that have not pre-booked, there is a cash bar on the 2<sup>nd</sup> floor and a Café on the 1<sup>st</sup> floor of the PCC.

## BADGES

All registered participants and accompanying persons will receive a badge. Exhibiting companies receive Exhibitor Passes and accredited members of media receive Media Passes. The badge is your ticket to enter the congress site or any of the social activities. Badges must be worn at all times. Please note that the congress badges will be collected for reuse on the last day of the congress near the entrances.

## TRANSPORT

Prague is a compact city and the PCC is located just outside the business district. Congress participants will have access to free public transport (metro, bus and tram) during the congress and the transport ticket will be given out at the registration with the congress bag. You may easily reach the city centre and the main sights by metro. Public transport consists of buses, trams and metro. You may reach the PCC with the metro line C. It takes approximately 50 min to reach the airport.

## MESSAGES AND CHANGES TO THE PROGRAMME

Messages to participants are sent via email. Any changes to the programme will also be announced via email.

## INTERNET SERVICES

Wireless internet will be available at the congress venue. The name of the network is ECSS2019.

## SPORTEX – THE OFFICIAL EXHIBITION OF THE EUROPEAN COLLEGE OF SPORT SCIENCE

An expansive area has been allocated for the congress exhibition, which will form the hub of ECSS Prague 2019. Exhibitors from all over the world, eager to advance and enhance science and research, will showcase their state-of-the-art products and services. The exhibition is located in the foyer of the second floor. The opening hours are:

- Wednesday, 3 July, 09:00–17:00
- Thursday, 4 July, 09:00–17:00
- Friday, 5 July, 09:00–17:00

## 3<sup>RD</sup> SPORTEX RAFFLE

Delegates and SportEx visitors have the opportunity to win a unique ECSS iPad and other very exciting prizes sponsored by SportEx exhibitors when participating in the SportEx Raffle. Delegates receive a raffle 'coupon' with their congress bag. To make use of this coupon, raffle participants need to visit participating exhibitors and complete a given task at their exhibition booths. After accomplishing the task, participants will be awarded with the company stamp on their coupon. Once the required number of stamps have been collected, they qualify for the raffle prize draw, which will take place at the ECSS booth at the foyer on the first floor on Friday at the end of the mid-day-break. Further information about the raffle can be found on the raffle coupon in your congress bag.

Date: Wednesday, 3 July – Friday 5 July

Time: Exhibition opening hours

Location: Level 2 Foyer

# General Information

## TOURIST INFORMATION

Enjoy and discover the amazing city of Prague and its impressive historical city centre. In your congress bag you find a city map with a selection of the most interesting architectural sights in Prague. With your free public transport ticket given out with the congress bag, you can easily explore this beautiful city. The ticket is valid during the congress only.

Please note that the 5 and 6 July are national holidays in the Czech Republic. Shops and other services may have limited operations.

## SOCIAL PROGRAMME

The ECSS congress in Prague offers you a wide range of social events outside the scientific programme. All functions are included in the congress registration fees, unless otherwise indicated.

### ECSS GENERAL ASSEMBLY

All ECSS members are invited to join the ECSS General Assembly to be informed about the latest facts and figures and the development of the society. Wednesday, 3 July, 11:00 to 12:00, room: Terrace 2A

### OPENING CEREMONY

The official opening of the congress will commence upon conclusion of the Paavo Komi Memorial. The programme will feature an opening address from the Congress President and the ECSS President. There will also be some traditional local entertainment.

### OPENING RECEPTION (PRE-BOOKING REQUIRED)

The Opening Ceremony will be followed immediately by an Opening Reception, which is also the official opening of the exhibition. Some finger food and drinks are provided for those that registered their participation.

### 5<sup>TH</sup> ECSS BENGT SALTIN RUN – SPONSORED BY H/P/COSMOS (REGISTRATION REQUIRED)

The traditional Bengt Saltin Run is a 5-kilometer memorial running event in honour of Professor Bengt Saltin, a founding member and Patron of the European College of Sport Science. The run is organised by the ECSS in co-operation with the Charles University Prague. ECSS and Charles University Prague are proud to announce that Mr. David Svoboda, Czech Olympic gold medalist, will be the patron of the 5<sup>th</sup> ECSS Bengt Saltin Run. The modern pentathlon Olympian will be helping to raise funds to help a local charity, Jedlicka Institute Foundation.

The run is limited to 250 places and allocation will be on a "first-come, first-served basis". There might be a few slots available. Please see h/p/cosmos Booth (Booth 39) at SportEx to find out.

Friday, 5 July, at 20:30, outside of PCC entrances 2 and 3

## FRIDAY NIGHT OUT

Join local volunteers for a guided pub tour in the historic city center of Prague. Register onsite at the info booth, near the registration desks.

Friday 5 July, time and place TBA

## FEPSAC EVENING

Join the FEPSAC president, Anne-Marie Elbe, for an informal gathering after a productive congress day. Registration required.

Friday, 5 July, 20:30, Pivovar Bašta

## CLOSING CEREMONY

The closing ceremony will immediately follow the YIA presentations and will feature a thank you and goodbye from Prague and a presentation from the 25<sup>th</sup> ECSS Congress in Seville 2020.

## ECSS CONGRESS PARTY (PRE-BOOKING REQUIRED)

The Congress Party will take place in the Žofín Palace on Saturday, 6 July, at 20:00. It will be a time to celebrate the success of the ECSS congress week. Enjoy the company of old friends and new, in a festive ambiance. Most important – DANCE!

- Doors open 20:00
- Buffet 20:00 – 22:00
- Live music 21:00 – 23:00
- DJ 23:00

Žofín Palace

Slovanský ostrov 226

110 00 Prague 1

Czech Republic

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# Congress Exhibitors

## 09 - AMTI

Biomechanics force platform  
USA

## 46 - ARTINIS MEDICAL SYSTEMS B.V.

NIRS devices (near-infrared spectroscopy)  
THE NETHERLANDS

## 22 - BIOPAC SYSTEMS, INC.

Data Acquisition Systems, Analysis Software  
USA

## 07 - BODYCAP

Monitoring solutions for Core Temperature  
FRANCE

## 56 - CAMNTECH LTD.

Medical Device Manufacturer  
UNITED KINGDOM

## 14, 15 - CATAPULT SPORTS PTY LTD

Athlete analytics  
UNITED KINGDOM

## 28 - COMETA SYSTEMS

Wireless EMG and IMU Systems  
ITALY

## 30 - CONTEMPLAS GMBH

Professional Motion Analysis Systems  
GERMANY

## 38 - CORTEX BIOPHYSIK GMBH

CPET systems

GERMANY

## 25, 26 - COSMED S.R.L.

Comprehensive cardiopulmonary, metabolic and body composition solutions for the research, sport science and human performance field  
ITALY

## 13 - DELSYS EUROPE

Wearable sensors for movement sciences - Electromyography (EMG) and Movement Sensors  
UNITED KINGDOM

## 57 - ECSS SEVILLA 2020

25<sup>th</sup> Annual Congress of the ECSS, 1 to 3 July, 2020  
SPAIN

## 31 - GAIT UP SA

Motion analysis - wearable inertial sensors  
SWITZERLAND

## 39 - H/P/COSMOS SPORTS & MEDICAL GMBH

h/p/cosmos treadmill solutions  
GERMANY

## 48 - HUMAN KINETICS EUROPE LTD

Publisher - Sport Science books  
UNITED KINGDOM

## 27 - INNOVISION APS

AMIS-SPORT for athletic VO2 testing  
DENMARK

## 49 - INSTITUTE OF SPORT AND PREVENTIVE MEDICINE

International degrees  
GERMANY

## 16 - JOURNAL OF SPORT AND HEALTH SCIENCE (JSHS)

Research article publication, peer-review journal  
CHINA

## 36 - KISTLER INSTRUMENTE AG

Force Plates, Force and Acceleration Sensors, Software for Performance and Balance analysis  
SWITZERLAND

## 29 - KUBIOS OY

Kubios HRV software  
FINLAND

## 35 - LODE B.V.

Bicycle and treadmill ergometers as well as recumbent, arm and supine ergometers and ergometry software  
THE NETHERLANDS

## 17 - MAASTRICHT INSTRUMENTS BV

Indirect calorimetry / Accelerometry  
THE NETHERLANDS

## 08 - MES FORSCHUNGSSYSTEME

EEG and NIRS devices  
GERMANY

## 40 - MICROGATE SRL

Systems for training and performance evaluation  
ITALY

## 42 - MONARK EXERCISE AB

Ergometers  
SWEDEN

## 47 - MOOR INSTRUMENTS LTD.

Blood flow / Oxygenation monitoring and imaging  
UNITED KINGDOM

## 12 - NOVEL GMBH

Load distribution measurement systems, sensors  
GERMANY

## 24 - PHYSIOFLOW / MANATEC BIOMEDICAL

PhysioFlow: Non invasive cardiac output monitors  
FRANCE

## 20 - POWERBREATHE ALTITUDE AND ENVIRONMENTAL SYSTEMS LTD

Altitude Simulation Training  
UNITED KINGDOM

## 19 - POWERBREATHE INTERNATIONAL LTD

Inspiratory Muscle Training, Better Breathing  
UNITED KINGDOM

## 43 - QUALISYS AB

Motion Capture - 3D Analysis  
SWEDEN

## **23 - QUIPU SRL**

Software for assessing early markers of cardiovascular risk  
ITALY

## **44, 45 - RBM ELEKTRONIK-AUTOMATION GMBH**

Cycling ergometers  
GERMANY

## **37 - ROUTLEDGE, TAYLOR & FRANCIS GROUP**

Publisher of European Journal of Sport Science  
UNITED KINGDOM

## **52 - SIMI REALITY MOTION SYSTEMS GMBH**

3D Markerless Motion Capture  
GERMANY

## **53 - STT SYSTEMS**

3D motion analysis solution  
SPAIN

## **54 - THE ELITE ATHLETE CENTRE/ LOUGHBOROUGH UNI**

High-performance hotel with altitude bedrooms  
UNITED KINGDOM

## **18 - THE PHYSIOLOGICAL SOCIETY**

Academic journals  
UNITED KINGDOM

## **06 - UCAM SPANISH SPORT UNIVERSITY**

University / Postgraduate studies  
SPAIN

## **32, 33 - VALD PERFORMANCE (INTL) PTY LTD**

NordBord, GroinBar, HumanTrak, ForceDecks  
AUSTRALIA

## **11 - VICON MOTION SYSTEMS LTD.**

Motion capture hardware and software  
UNITED KINGDOM

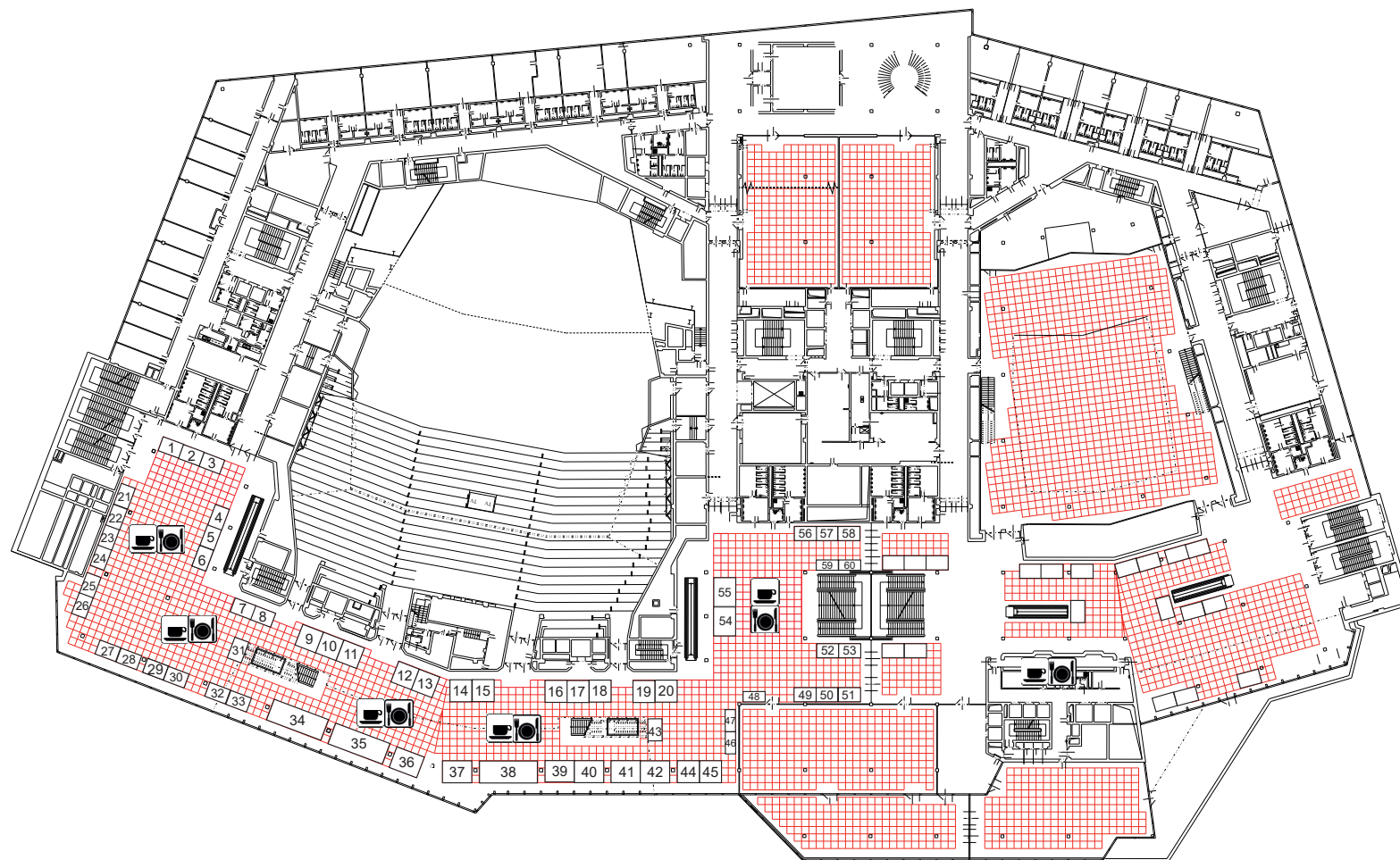
## **59, 60 - WISEPRESS LTD**

Bookseller  
UNITED KINGDOM



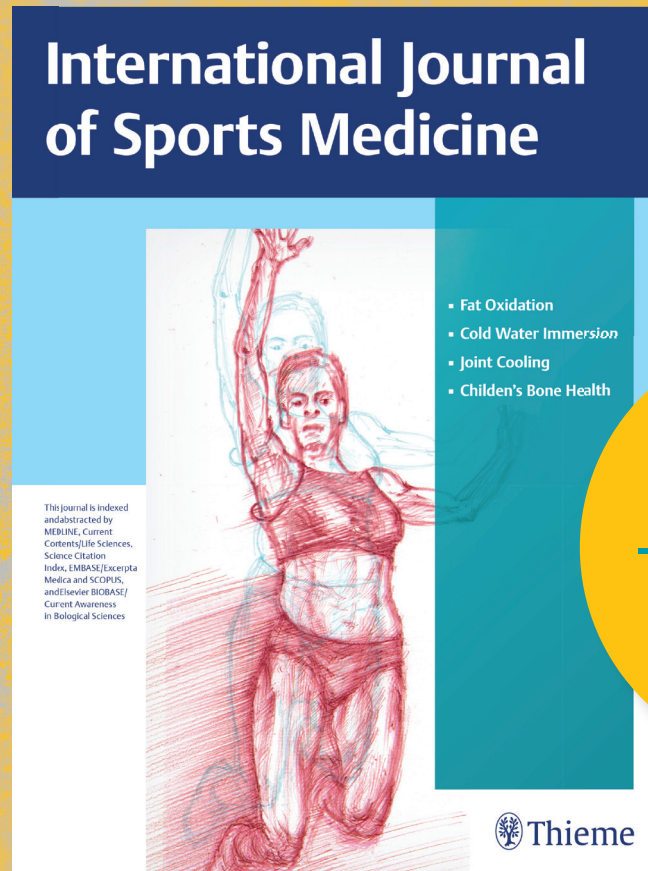
# SPORTEx

The official exhibition of the European College of Sport Science





*Embrace the spectrum of sports medicine!*



**Impact  
Factor**

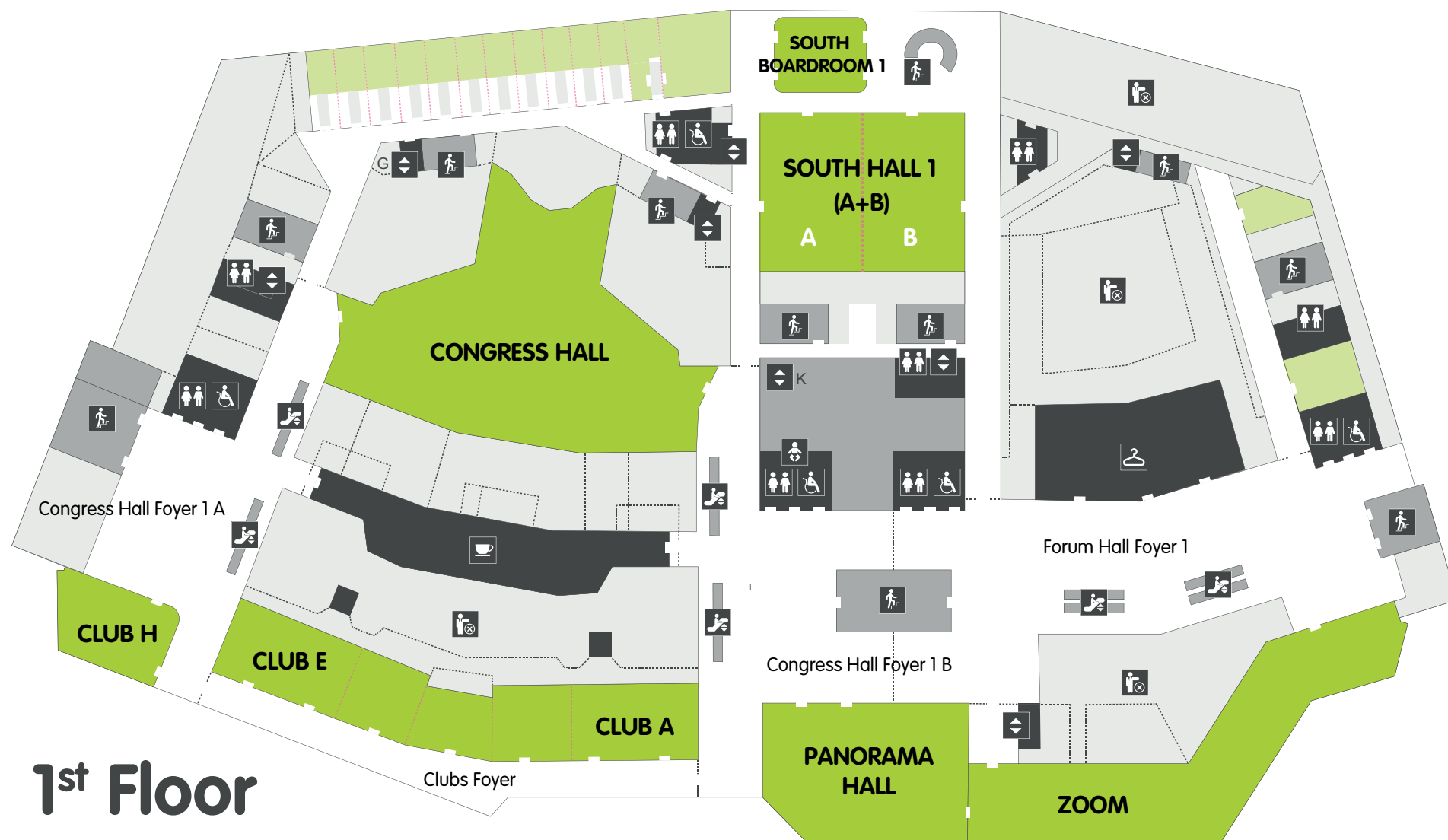
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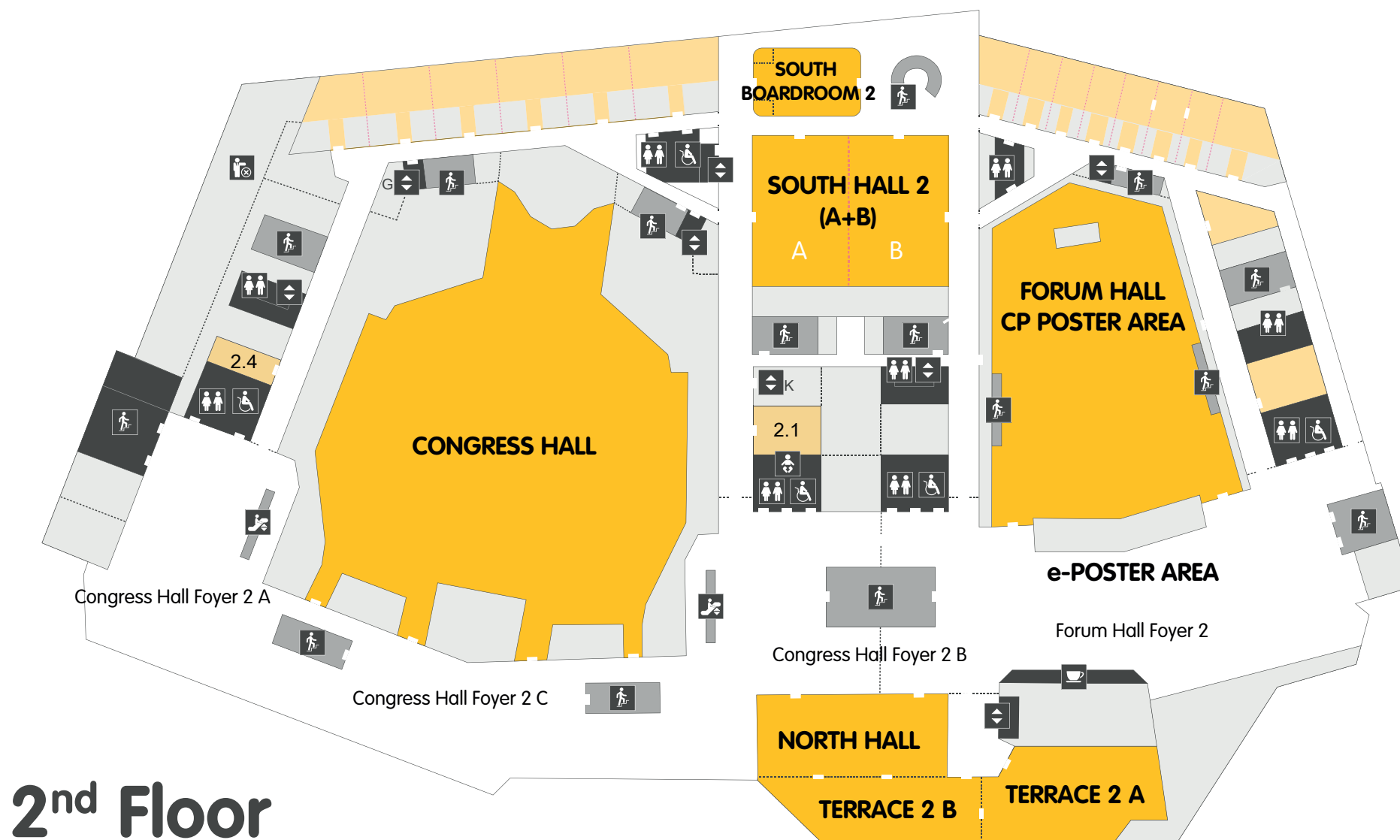
Institutional Subscribers [esales@thieme.com](mailto:esales@thieme.com)

 **Thieme**

## Lecture Rooms & Floor plan



**1<sup>st</sup> Floor**



## 2<sup>nd</sup> Floor



# Parallel Programme

## Satellites

### **GSSI Sports Nutrition Satellite: Changing Nutrition for the 24-Hour Athlete**

Date: Wednesday, 3 July  
Time: 08:30 – 11:50  
Room: Panorama Hall

### **CATAPULT Performance Symposium**

Date: Tuesday, 2 July  
Time: 12:00 – 17:00  
Room: Panorama Hall

## Awards

### **ECSS Young Investigators Award (YIA)**

#### **Presentations**

Date: Wednesday, 3 July  
Date: Thursday, 4 July  
(Sessions marked YIA)

#### **Finalists' Presentations**

(top 4 oral presentations)  
Date: Saturday, 6 July  
Time: 16:45 – 18:00  
Room: Congress Hall

#### **Awards Ceremony**

Date: Saturday, 6 July  
Time: 18:30 – 19:00  
Room: Congress Hall

## GSSI Nutrition Award

### **Finalists' Presentations**

Date: Wednesday, 3 July  
Time: 14:00 – 15:30  
Room: Panorama Hall

### **Awards Ceremony**

Date: Wednesday, 3 July  
Time: 19:00-19:15  
Room: Congress Hall

## Special Interest Groups (SIG)

### **Elite Sport Performance**

Date: Wednesday, 3 July  
Time: 9:00 - 10:30  
Room: Club H

### **Nutrition and hydration sponsored by GSSI**

Date: Thursday, 4 July  
Time: 18:30 - 20:00  
Room: Panorama Hall

### **Environmental Physiology**

Date: Friday, 5 July  
Time: 13:15 - 14:45  
Room: Terrace 2A

## ECSS General Assembly

### **ECSS General Assembly**

Date: Wednesday, 3 July  
Time: 11:00 – 12:00  
Room: Terrace 2A

## ECSS SportEx Raffle 2019

### **3<sup>rd</sup> SportEx Raffle**

Date: Wednesday, 3 July – Friday, 5 July  
Exhibition opening hours  
Room: Level 2 foyer

## 5<sup>th</sup> ECSS Bengt Saltin Run

### **5<sup>th</sup> ECSS Bengt Saltin Run sponsored by h/p/cosmos**

Date: Friday, 5 July  
Time: 20:00  
Location: Outside of PCC entrances 2 and 3

## Press Conference

### **Opening Ceremony Press Conference**

Date: Wednesday, 3 July  
Time: 18:00 – 18:45  
Room: Zoom  
(Invited guests and media only)

## Technical Workshops

### **Metabolic Space - hosted by Cortex**

Experiments with astronaut Alexander Gerst; Life support and cardiopulmonary analysis in human space flight – hosted by Cortex  
Date: Wednesday, 3 July  
Time: 10:30 - 12:00  
Room: Club H

### **From Science to Practice – hosted by Kistler**

How force plates are used within a professional football team for the development of young players – hosted by Kistler  
Date: Wednesday, 3 July  
Time: 10:30 - 12:00  
Room: Terrace 2B

### **Advances in Metabolic Technologies and Field Testing - hosted by COSMED**

Date: Friday, 5 July  
Time: 9:45 -11:15  
Room: Terrace 2A

### **A Breakthrough in Understanding Movement & Performance: High Performance Testing – Hosted by Lode**

Date: Wednesday, 3 July  
Time: 9:00 – 10:00  
Room: Terrace 2B

# Plenary sessions

## Wednesday, July 3

17:45 - 19:00

PL-PS01

Congress Hall

### SPRINGS AND SPRINTERS

Chair(s):  
Finni, T. [Finland]

17:45 PL-PS01-1  
THE SPRING IN YOUR STEP: THE IMPORTANCE OF MUSCLE AND TENDON DESIGN FOR HUMAN PERFORMANCE  
Lichtwark, G. [Australia]

18:25 PL-PS01-2  
MAXIMUM SPRINTING: CAN WE TRANS-ER OUR BIOMECHANICAL KNOWLEDGE TO IMPROVE ATHLETES' PERFORMANCE  
Salo, A.I.T. [Finland]

## Thursday, July 4

11:30 - 12:45

PL-PS02

Congress Hall

### Personalized exercise oncology

Chair(s):  
Wiskemann, J. [Germany]  
Pedersen, B. [Denmark]

11:30 PL-PS02-1  
IMPLEMENTATION OF EXERCISE AND CANCER GUIDELINES IN EUROPE  
Schmitz, K. et al [United States]

12:10 PL-PS02-2  
EVIDENCE-BASED EXERCISE GUIDELINES FOR PREVENTION AND TREATMENT OF CANCER  
Wiskemann, J. et al [Germany]

## Friday, July 5

11:30 - 12:45

PL-PS03

Congress Hall

### Sport and brain injuries - A red flag for sport?

Chair(s):  
Hedenborg, S. [Sweden]

11:30 PL-PS03-1  
CHRONIC TRAUMATIC ENCEPHALOPATHY IN TOP ATHLETES  
McKee, A. [Australia]

12:10 PL-PS03-2  
SCHOOL'S RUGBY AS INSTITUTIONAL CHILD ABUSE  
Anderson, E. [United Kingdom]

## Saturday, July 6

15:15 - 16:30

PL-PS04

Congress Hall

### The importance of circadian rhythm for athletic performance and skeletal muscle health

Chair(s):  
Mackey, A. [Denmark]

15:15 PL-PS04-1  
THE INTRINSIC MUSCLE CLOCK AND MUSCULOSKELETAL HEALTH  
Esser, K. [United States]

15:55 PL-PS04-2  
CIRCADIAN CONTROL OF DIURNAL PERFORMANCE PATTERNS IN ATHLETES  
Brandstaetter, R. [Austria]



# 5<sup>TH</sup> INTERNATIONAL CONGRESS ON SOLDIERS' PHYSICAL PERFORMANCE



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nationale National  
Defence



**11-14 FEBRUARY 2020**  
**QUEBEC CITY CANADA**

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## PROPOSED THEMES

### Optimization Cycle

- Mental and Physical resilience
- Optimizing the winter soldier
- Regeneration
- Innovation in Physical Training

### Soldier Systems and Performance

- Personal Protective Equipment evolution
- Emerging technology to alleviate burden
- Emerging technology to achieve goal
- Sleep and fatigue management

### Health

- Holistic health and fitness/ the performance triad
- Prevention/reduction in MSKI
- Cognition and Physical fitness

### Knowledge Transfer

- Implementation- science to practice
- Monitoring scientific Integrity in the field
- Military physical performance analytics
- Basic Training as a platform for research



# Oral & Invited Presentations

## Wednesday, July 3

14:00 - 15:30

### IS-PM05

#### Congress Hall

##### High-carbohydrate or high-fat diets for optimising training adaptation and performance? [Applied track]

Chair(s):  
Helge, J. [Denmark]  
14:00 IS-PM05-1  
TRAINING-DIET INTERACTIONS TO OPTIMIZE SKELETAL MUSCLE ADAPTATION  
Hawley, J. [Australia]  
14:30 IS-PM05-2  
MAXIMIZING FAT OXIDATION: HELP OR HINDRANCE TO ADAPTATION & PERFORMANCE?  
Helge, J. [Denmark]  
15:00 IS-PM05-3  
ADAPTATION TO HIGH FAT DIETS AND ENDURANCE PERFORMANCE IN ELITE ATHLETES  
Burke, L. [Australia]

### GSSI-PRES

#### Panorama Hall

##### GSSI Nutrition Award Presentations

Chair(s):  
Raastad, T. [Norway]  
Carter, J. [United States]  
14:00 [YIA] GSSI-Pres-1  
ENERGY INTAKE AND EXPENDITURE OF PREMIER LEAGUE ACADEMY SOCCER PLAYERS: IMPLICATIONS FOR SPORTS NUTRITION GUIDELINES  
Hannon, M. et al [United Kingdom]

14:15 [YIA] GSSI-Pres-2  
MYCOPROTEIN INGESTION STIMULATES PROTEIN SYNTHESIS RATES TO A GREATER EXTENT THAN MILK PROTEIN IN BOTH RESTED AND EXERCISED SKELETAL MUSCLE IN HEALTHY YOUNG MEN.  
Monteyne, A.J. et al [United Kingdom]  
14:30 [YIA] GSSI-Pres-3  
EXOGENOUS CARBOHYDRATE INGESTION DURING PROLONGED STEADY STATE EXERCISE ALTERS INTRAMUSCULAR SUBSTRATE UTILISATION IN TRAINED CYCLISTS  
Fell, J.M. et al [United Kingdom]  
14:45 [YIA] GSSI-Pres-4  
GREATER STIMULATION OF MYOFIBRILLAR AND SARCOPLASMIC SKELETAL MUSCLE PROTEIN SYNTHESIS WITH A-LACTALBUMIN COMPARED TO COLLAGEN PEPTIDE SUPPLEMENTATION DURING OVERREACHING IN TRAINED CYCLISTS  
Oikawa, S.Y. et al [Canada]  
15:00 GSSI-Pres-5  
ACUTE CARNOSINE AND ANSERINE SUPPLEMENTATION AS A NOVEL ERGOGENIC STRATEGY FOR HIGH-INTENSITY EXERCISE  
Blancquaert, L. et al [Belgium]  
15:15 GSSI-Pres-6  
UTILITY OF THE <sup>13</sup>C-BREATH (RATIO) METHOD TO TRACK CHANGES IN FAT-OXIDATION MAXIMA DURING INTENSE CYCLING EXERCISE FOLLOWING GLYCOGEN MANIPULATION BY ACUTE DIETARY INTERVENTION  
Kopetschny, B.H. et al [New Zealand]

### OP-PM06

#### South Hall 1A

##### Energy, fat and metabolism

Chair(s):  
Siu, P. [China]  
Giardina, M. [Italy]  
14:00 [YIA] OP-PM06-1  
THE EFFECT OF EXERCISE INDUCED FACTORS ON HUMAN ADIPOCYTES  
Severinsen, M. et al [Denmark]

14:15 OP-PM06-2  
EFFECTS OF HIIT OR AEROBIC EXERCISE TRAINING ON LIPID METABOLISM BY ACTIVATING FGF21 SIGNALING PATHWAY  
Li, L. et al [China]  
14:30 OP-PM06-3  
SARCOLIPIN EXPRESSION IN HUMAN SKELETAL MUSCLE IS NOT ASSOCIATED WITH FAT MASS AND IS NOT ALTERED BY SEVERE ENERGY DEFICIT AND LOW-INTENSITY EXERCISE, WHILE IT IS REDUCED BY HIGH-INTENSITY TRAINING  
Martinez-Canton, M. et al [Spain]  
14:45 OP-PM06-4  
EFFECTS OF RESISTANCE TRAINING ON WHITE AND BROWN ADIPOCYTES IN RATS.  
Amano, Y. et al [Japan]  
15:00 OP-PM06-5  
ENERGY COST OF SELECTED TRAINING AND NON-TRAINING ACTIVITIES OF 10-17-YEAR-OLD INDIAN ATHLETES  
KEREN, S.C. et al [India]  
15:15 OP-PM06-6  
RE-EXAMINING THE FATMAX CONCEPT: A NEW PROCEDURE TO DETERMINE FAT OXIDATION RATE DURING INTENSE AEROBIC EXERCISE USING A <sup>13</sup>C BREATH RATIO APPROACH  
Riis, S. et al [Denmark]

### OP-PM01

#### South Hall 1B

##### Molecularbiology and biochemistry: signaling and response

Chair(s):  
Morales-Álamo, D. [Spain]  
Wagenmakers, A. [United Kingdom]  
14:00 [YIA] OP-PM01-1  
INCREASED RIBOSOMAL BIOGENESIS AND CAPACITY WITH HIGH-FREQUENCY LOW-LOAD BLOOD FLOW RESTRICTED RESISTANCE EXERCISE  
Bjørnsen, T. et al [Norway]

14:15 [YIA] OP-PM01-2  
INVESTIGATING SKELETAL MUSCLE MITOPHAGY SIGNALLING AND THE EFFECT OF ELECTRICAL STIMULATION  
Seabright, A. et al [United Kingdom]  
14:30 [YIA] OP-PM01-3  
THE VITAMIN D RECEPTOR REGULATES MITOCHONDRIAL FUNCTION IN SKELETAL MUSCLE  
Ashcroft, S.P. et al [United Kingdom]  
14:45 [YIA] OP-PM01-4  
POST-EXERCISE ISCHEMIA MAINTAINS THE EXERCISE-INDUCED ACTIVATING PHOSPHORYLATION OF NRF2: ROLE OF METABOLITES AND PO<sub>2</sub>  
GALLEGO-SELLES, A. et al [Spain]  
15:00 [YIA] OP-PM01-5  
TARGETED METABOLOMICS UNCOVERS ASSOCIATIONS BETWEEN CIRCULATORY ESSENTIAL AMINO ACIDS AND HEALTH BIOMARKERS ACROSS THE LIFE-COURSE, AND IN RESPONSE TO RESISTANCE EXERCISE TRAINING  
Sayda, M.H. et al [United Kingdom]

### OP-BN01

#### South Hall 2A

##### Muscle and/or tendon function I

Chair(s):  
Bogdanis, G. [Greece]  
Baltzopoulos, B. [United Kingdom]  
14:00 [YIA] OP-BN01-1  
MUSCLE-TENDON INTERACTION DURING RUNNING: DISTINCT ADJUSTMENTS TO INCREASING SPEED AND LOAD  
Werkhausen, A. et al [Norway]  
14:15 [YIA] OP-BN01-2  
INCREASED STIFFNESS IN MONOARTICULAR QUADRICEPS MUSCLES DUE TO EPIMUSCULAR MYOFASCIAL FORCE TRANSMISSION FROM BIARTICULAR MUSCLE ELONGATION  
Yanase, K. et al [Japan]

14:30 [YIA] OP-BN01-3  
INVESTIGATING THE FORCE-GENERATING CAPACITY OF M. ABDUCTOR HALLUCIS  
Perez Olivera, A.L. et al [United Kingdom]  
14:45 OP-BN01-4  
A RE-EXAMINATION OF HUMAN MUSCLE SIZE AND STRENGTH RELATIONSHIPS  
Balshaw, T.G. et al [United Kingdom]  
15:00 OP-BN01-5  
TO WHAT EXTENT RELATIVE CHANGES IN MUSCLE ARCHITECTURE WITH LENGTHENING AND CONTRACTION INTENSITY CONTRIBUTE TO THE SHEAR-WAVE PROPAGATION VELOCITY?  
GARCIA-VICENCIO, S. et al [France]  
15:15 OP-BN01-6  
IN-VIVO ULTRASOUND ASSESSMENT OF BICEPS FEMORIS LONG HEAD FASCICLE LENGTH: SO FAR, NOT SO GOOD  
Franchi, M.V. et al [Switzerland]

### OP-PM15

#### South Hall 2B

##### Physiology

Chair(s):  
Verdijk, L. [Netherlands]  
Romer, L. [United Kingdom]  
14:00 [YIA] OP-PM15-1  
NON-INVASIVE ESTIMATION OF MUSCLE FIBER TYPOLOGY IN VARIOUS DISCIPLINES OF PROFESSIONAL CYCLING  
Van Vossel, K. et al [Belgium]  
14:15 [YIA] OP-PM15-2  
METABOLIC POWER AND ENERGY EXPENDITURE IN THE GERMAN BUNDESLIGA  
Venzke, J. et al [Germany]  
14:30 [YIA] OP-PM15-3  
NEUROMUSCULAR EVALUATION OF ARM-CYCLING REPEATED SPRINTS UNDER HYPOXIA AND/OR BLOOD FLOW RESTRICTION  
Peyrard, A. et al [France]



14:45 [YIA] OP-PM15-4  
FIVE WEEKS OF HIGH INTENSITY CIRCUIT TRAINING LED TO A DECREASE OF SERUM FIBROBLAST GROWTH FACTOR-21 IN OVERWEIGHT ADULT WOMEN  
Micielska, K. et al [Poland]  
15:00 [YIA] OP-PM15-5  
LOAD AND LIMB LOCATION DO NOT MEDIATE RESISTANCE TRAINING-INDUCED CHANGES IN LIMB STRENGTH AND LEAN MASS  
Morton, R.W. et al [Canada]  
15:15 [YIA] OP-PM15-6  
MUSCLE DISUSE RESULTS IN A RAPID DECLINE IN DAILY MYOFIBRILLAR PROTEIN SYNTHESIS RATES  
Kilroe, S.P. et al [United Kingdom]

## OP-PM12

### North Hall

#### Training and testing

Chair(s):  
Bishop, D. [Australia]  
Hopker, J. [United Kingdom]  
14:00 [YIA] OP-PM12-1  
COMPARISON OF THE ENERGETICS OF THE BOSCO AND WINGATE TEST  
Kaufmann, S. et al [Germany]  
14:15 [YIA] OP-PM12-2  
COMPARISON OF TRAINING MONITORING AND PRESCRIPTION METHODS IN FLAT-WATER SPRINT KAYAKING  
Hogan, C. et al [Australia]  
14:30 [YIA] OP-PM12-3  
NURTURE, NATURE AND NON-RESPONSE: A NOVEL RANDOMISED CROSS-OVER STUDY OF CHANGES IN BODY COMPOSITION AND METABOLIC PROFILE IN RESPONSE TO ENDURANCE VERSUS RESISTANCE TRAINING IN TWIN PAIRS  
Thomas, H.J. et al [Australia]  
14:45 [YIA] OP-PM12-4  
INCLUSION OF REPEATED 30-S MAXIMAL SPRINTS IN PROLONGED LOW-INTENSITY ENDURANCE CYCLING IMPROVES SPRINT-ABILITY AND 5-MIN ALL-OUT

PERFORMANCE IN ELITE CYCLISTS.  
Almqvist, N.W. et al [Norway]  
15:00 [YIA] OP-PM12-5  
EFFECTS OF AN ECCENTRIC HAMSTRING TRAINING ON COMPONENTS OF PHYSICAL FITNESS IN FEMALE YOUNG HANDBALL PLAYERS  
Chaabene, H. et al [Germany]  
15:15 OP-PM12-6  
A COMPARISON OF LINEAR AND REVERSE LINEAR PERIODISED PROGRAMS WITH EQUATED VOLUME AND INTENSITY FOR ENDURANCE RUNNING PERFORMANCE  
Bradbury, D.G. et al [Australia]

## OP-PM10

### Club A

#### Health and Fitness: Clinical populations I

Chair(s):  
Wiskemann, J. [Germany]  
Berntsen, S. [Norway]  
14:00 [YIA] OP-PM10-1  
ADAPTATIONS TO HIGH-LOAD AND LOW-LOAD RESISTANCE TRAINING IN COPD PATIENTS AND HEALTHY OLDER SUBJECTS  
Mølmen, K.S. et al [Norway]  
14:15 [YIA] OP-PM10-2  
SOCIAL INEQUALITY AND READINESS FOR HEALTH TECHNOLOGY – RISKS OF TECHNOLOGY-ASSISTED PHYSICAL ACTIVITY REHABILITATION OF INDIVIDUALS WITH TYPE 2 DIABETES  
Thorsen, I.K. et al [Denmark]  
14:30 OP-PM10-3  
COMPARISON OF THE EFFECTS OF ECCENTRIC AND CONCENTRIC CYCLING TRAINING ON MUSCLE FUNCTION, BODY COMPOSITION AND QUALITY OF LIFE IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE PATIENTS  
Peñailillo, L. et al [Chile]  
14:45 OP-PM10-4  
THE PHYS-CAN STUDY: ADJUVANT CHEMOTHERAPY IS ASSOCIATED WITH A REDUCTION WHEREAS

PHYSICAL ACTIVITY LEVEL BEFORE TREATMENT IS POSITIVELY ASSOCIATED WITH MAINTENANCE OF VO2MAX IN PATIENTS WITH CANCER  
Wiestad, T.H. et al [Norway]  
15:00 OP-PM10-5  
THE EFFECT OF AN EXPANDED LONG-TERM PERIODIZATION EXERCISE TRAINING ON HEALTH-RELATED PHYSICAL FITNESS IN PATIENTS WITH CORONARY ARTERY DISEASE  
Pinto, R. et al [Portugal]  
15:15 OP-PM10-6  
EFFECTS OF A MULTICOMPONENT EXERCISE PROGRAM COMBINED WITH A MULTI-NUTRIENT SUPPLEMENT ON MUSCULOSKELETAL HEALTH IN MEN WITH PROSTATE CANCER RECEIVING ANDROGEN DEPRIVATION THERAPY: A 12-MONTH RCT  
Dalla Via, J. et al [Australia]

## OP-SH06

### Club E

#### Professional development – Physical education and exercise settings

Chair(s):  
Grimminger-Seidensticker, E. [Germany]  
Mukherjee, S. [Singapore]  
14:00 OP-SH06-1  
THE RELEVANCE OF SCHOOL COMMUNITY WORKING RELATIONSHIPS IN PHYSICAL EDUCATION PRE-SERVICE-TEACHERS IDENTITY DEVELOPMENT: THE CASE OF THE INSTITUTE UNIVERSITY OF MAIA PETE PROGRAMME  
Amaral-da-Cunha, M. et al [Portugal]  
14:15 OP-SH06-2  
OPPORTUNITIES FOR ENGAGING IN PRACTICAL ACTIVITIES AT CONTINUING PROFESSIONAL DEVELOPMENT (CPD) WORKSHOPS ASSOCIATED WITH SELF-EFFICACY CHANGE IN SECONDARY SCHOOL PHYSICAL EDUCATION (PE) TEACHERS  
Neville, R.D. et al [Ireland]  
14:30 OP-SH06-3  
PRIVACY AND CONFIDENTIALITY IN EXERCISE AND SPORTS SCIENCES WORK PLACEMENTS: LEGAL AND

ETHICAL CONSIDERATIONS  
Sekendiz, B. [Australia]  
14:45 OP-SH06-4  
INSPIRING STORIES: THE CASE OF AN EXERCISE PRESCRIPTION CLINIC AND PRACTICUM PROGRAM  
Hodges, L.D. et al [New Zealand]

## OP-MI02

### Club H

#### Training and testing: Rugby

Chair(s):  
Gabrys, T. [Czech Republic]  
Impellizzeri, F. [Australia]  
14:00 OP-MI02-1  
GAME PERFORMANCES AND WEEKLY WORKLOAD IN RUGBY UNION: USING OF DATA MINING PROCESS AND MACHINE LEARNING TO ENTER IN THE COMPLEXITY.  
Dubois, R. et al [France]  
14:15 OP-MI02-2  
INTERNAL LOAD MONITORING, NOTATIONAL AND TIME MOTION ANALYSES, PSYCHOMETRIC STATUS, AND NEUROMUSCULAR RESPONSES OF ELITE RUGBY UNION PLAYERS' TRAINING.  
Lupo, C. et al [Italy]  
14:30 OP-MI02-3  
BODY COMPOSITION AND SYMMETRY CHARACTERISTICS OF PROFESSIONAL RUGBY UNION PLAYERS  
Posthumus, L.R. et al [New Zealand]  
14:45 OP-MI02-4  
TECHNICAL FEEDBACK AND INSTRUCTION USING VIDEO IMPROVES TACKLING TECHNIQUE OF RUGBY UNION PLAYERS  
Davidow, D. et al [South Africa]  
15:00 OP-MI02-5  
PEAK RUNNING INTENSITIES OF ELITE YOUTH RUGBY LEAGUE MATCH PLAY  
SMITH, M.R. et al [Australia]

## OP-SH01

### Terrace 2A

#### Sociology

Chair(s):  
Dikemüller, R. [Austria]  
Anderson, E. [United Kingdom]  
14:00 [YIA] OP-SH01-1  
SOCIAL NETWORKS AND ITS INFLUENCE ON NUTRIENT INTAKE, NUTRITIONAL STATUS AND PHYSICAL FUNCTION OF COMMUNITY-DWELLING ETHNICALLY DIVERSE OLDER ADULTS: A MIXED METHOD LONGITUDINAL STUDY  
Asamane, E.A. et al [United Kingdom]  
14:15 OP-SH01-2  
ADVENTURE SPORTS AND THE PERCEPTION OF BEING, OR NOT BEING, ELDERLY  
Marinho, A. et al [Brazil]  
14:30 OP-SH01-3  
EFFECTS OF PARENTS SOCIOECONOMIC STATUS AND PHYSICAL ACTIVITY PARTICIPATION ON THE ADOLESCENTS PHYSICAL ACTIVITY LEVELS  
Tian, H. et al [China]  
14:45 OP-SH01-4  
ACTIVE MOBILITY OF ADOLESCENT GIRLS IN PUBLIC URBAN SPACES  
Dikemüller, R. [Austria]  
15:00 OP-SH01-5  
FACEBOOK IS OUR PLAYGROUND NOW - A STUDY OF THE USE OF SOCIAL MEDIA IN EQUESTRIAN SPORTS  
Broms, L. et al [Sweden]  
15:15 OP-SH01-6  
EQUALITY WORK IN THE SWEDISH VOLLEYBALL FEDERATION  
Karlén, S. et al [Sweden]

# Oral & Invited Presentations

## OP-SH05

### Terrace 2B

#### Children

Chair(s):

tekin, m. [Turkey]

Benson, A. [Australia]

14:00 OP-SH05-1

EFFECTS OF THE 10 MINUTES CLASSROOM-BASED PHYSICAL ACTIVITY INTERVENTION IN FOURTH GRADE CHILDREN'S MATHEMATICAL ABILITY IN TAIPEI

Chang, W. et al [Taiwan]

14:15 OP-SH05-2

PHYSICAL FITNESS AND ACADEMIC ACHIEVEMENT IN CHINESE SENIOR HIGH SCHOOL STUDENTS

Wang, M. et al [China]

14:30 OP-SH05-3

SEDENTARY BEHAVIORS PROFILES TRANSITIONS AMONG SCHOOL-AGED YOUTH: ASSOCIATIONS WITH CHANGES IN ACADEMIC PERFORMANCE; THE UP&DOWN STUDY

Sánchez Oliva, D. et al [Spain]

14:45 OP-SH05-4

NEW WAYS OF PREVENTIVE P.E. CURRICULUM

Bodó, D. et al [Hungary]

## Wednesday, July 3

### 16:00 - 17:30

#### IS-SP03

#### Congress Hall

#### Effective management of the return of training (RTT) phase of rehabilitation in a professional sporting environment - Sponsored by Catapult [Applied track]

Chair(s):

Drust, B. [United Kingdom]

IS-SP03-1

OVERVIEW OF THE RETURN TO TRAINING PHASE OF REHABILITATION

Drust, B. [United Kingdom]

IS-SP03-2

DESIGN, DELIVERY AND MONITORING OF RTT PROGRAMMES TO MEET INDIVIDUAL REQUIREMENTS

Harley, J. [United Kingdom]

IS-SP03-3

RTT POST INCIDENCE OF INFECTIOUS DISEASE

Meyer, T. [Germany]

#### OP-PM03

#### Panorama Hall

#### Nutrition: Vitamins, collagen and anti-oxidants

Chair(s):

Morales-Álamo, D. [Spain]

Breen, L. [United Kingdom]

16:00 [YIA] OP-PM03-1

THE EFFECT OF VITAMIN D STATUS ON PHYSICAL PERFORMANCE, BONE QUALITY AND DENSITY IN UK UNIVERSITY ATHLETES AND SEDENTARY CONTROLS

Wilson-Barnes, S. et al [United Kingdom]

16:15

[YIA] OP-PM03-2

THE EFFECTS OF A 12-WEEK HYPERTROPHY RESISTANCE TRAINING WITH A COLLAGEN HYDROLYSATE SUPPLEMENTATION ON THE SKELETAL MUSCLE PROTEOME OF RECREATIONAL MALE ATHLETES

Oertzen-Hagemann, V. et al [Germany]

16:30 OP-PM03-3

EFFECTS OF ANTIOXIDANT-RICH FOODS ON ALTITUDE-INDUCED OXIDATIVE STRESS AND INFLAMMATION IN ELITE ENDURANCE ATHLETES: A RANDOMIZED CONTROLLED TRIAL

Koivisto, A.E. et al [Norway]

16:45 OP-PM03-4

VITAMIN D SUPPLEMENTATION DOES NOT INCREASE GAINS IN MUSCLE STRENGTH IN VITAMIN D INSUFFICIENT YOUNG MEN ENGAGED IN RESISTANCE TRAINING

Savolainen, L. et al [Estonia]

17:00 OP-PM03-5

EFFECTS OF COLLAGEN SUPPLEMENTATION AND RESISTANCE TRAINING IN RECREATIONAL ATHLETES

Kirmse, M. et al [Germany]

17:15 OP-PM03-6

HIGH-INTENSITY INTERVAL TRAINING IS MORE EFFECTIVE IN YOUNG THAN IN ELDERLY HUMAN SUBJECTS

Schlittler, M. et al [Sweden]

#### OP-PM02

#### South Hall 1A

#### Metabolic syndrome and diabetes I

Chair(s):

Budde, H. [Germany]

Wagenmakers, A. [United Kingdom]

16:00 [YIA] OP-PM02-1

ENDURANCE-TYPE EXERCISE TRAINING PERFORMED BEFORE VERSUS AFTER BREAKFAST INCREASES ORAL GLUCOSE INSULIN SENSITIVITY AND CUMULATIVE FAT OXIDATION IN OVERWEIGHT MEN

Edinburgh, R.M. et al [United Kingdom]

16:15

[YIA] OP-PM02-2

WHICH WHEY FORWARD? NUANCING THE EFFECTS OF POST-EXERCISE WHEY INGESTION IN TYPE 2 DIABETES MELLITUS

Peeters, W.M. et al [New Zealand]

16:30 OP-PM02-3

THE DIURNAL IMPACT OF EXERCISE TIMING ON DIETARY BEHAVIOUR: A RANDOMIZED CONTROLLED TRIAL

Teo, S.Y. et al [Australia]

16:45 OP-PM02-4

THE EFFECT OF POWER TRAINING ON HABITUAL PHYSICAL ACTIVITY IN OLDER ADULTS WITH TYPE 2 DIABETES: SECONDARY OUTCOMES OF THE GREAT2DO RANDOMIZED CONTROLLED TRIAL

Mosalman Haghighi, M. et al [Australia]

17:00 OP-PM02-5

ADHERENCE AND ENJOYMENT OF A WALKING-FOOTBALL PROGRAM FOR PATIENTS WITH TYPE 2 DIABETES: SWEET-FOOTBALL PROJECT

Barbosa, A. et al [Portugal]

17:15 OP-PM02-6

EFFECT OF HIGH INTENSITY COMBINED (RESISTANCE AND AEROBIC) TRAINING ON BG VARIABILITY, COGNITIVE FUNCTION AND PHYSICAL CAPACITY IN TYPE-1 DIABETIC AND NON-DIABETIC INDIVIDUALS

Minnock, D. et al [Ireland]

#### OP-PM08

#### South Hall 1B

#### Health and fitness: Children and adolescents

Chair(s):

Shim, A. [United States]

Mukherjee, S. [Singapore]

16:00 [YIA] OP-PM08-1

TOTAL VOLUMES AND ACCUMULATION PATTERNS ACROSS THE ACTIVITY SPECTRUM AND ASSOCIATIONS WITH CARDIOMETABOLIC HEALTH IN YOUTH: A LATENT PROFILE & COMPOSITIONAL DATA ANALYSIS APPROACH

Verswijveren, S. et al [Australia]

16:15

[YIA] OP-PM08-2

THREE-YEAR SURVEILLANCE OF CARDIORESPIRATORY FITNESS IN UK PRIMARY SCHOOL CHILDREN.

Tuvey, S. et al [United Kingdom]

16:30 [YIA] OP-PM08-3

IS THERE AN ASSOCIATION OF TRAINING VOLUME AND ARTERIAL STRUCTURE AND FUNCTION IN CHILDREN AND ADOLESCENTS?

Thomandl, L. et al [Germany]

16:45 [YIA] OP-PM08-4

HUMAN SKELETAL MUSCLE METABOLITES BEFORE AND AFTER PUBERTY: A 6-YEAR LONGITUDINAL NON-INVASIVE STUDY

Lievens, E. et al [Belgium]

17:00 [YIA] OP-PM08-5

VALIDITY AND RELIABILITY OF A PHOTOPLETHYSMOGRAPHY DEVICE FOR MEASURING HEART RATE VARIABILITY IN PAEDIATRICS

Speer, K. et al [Australia]

17:15 OP-PM08-6

CHILDREN'S HEAVY SCREEN USE ON WEEKENDS PREDICTS HIGHER BODY MASS INDEX IN ADOLESCENCE

Engberg, E. et al [Finland]

#### OP-PM13

#### South Hall 2A

#### Muscle damage and repair I

Chair(s):

Nosaka, K. [Australia]

Raastad, T. [Norway]

16:00 [YIA] OP-PM13-1

URINARY N-TERMINAL FRAGMENT OF TITIN IS A NOVEL NONINVASIVE BIOMARKER FOR THE EXERCISE-INDUCED MUSCLE DAMAGE IN HEALTHY YOUNG ADULTS

Tanabe, Y. et al [Japan]

16:15 [YIA] OP-PM13-2

REPEATED MRI AND CLINICAL EXAMINATIONS OF HAMSTRING INJURIES IN AMATEUR FOOTBALL PLAYERS.

Steendahl, I. et al [Germany]

16:30 OP-PM13-3  
TIME COURSE OF MUSCLE INJURY RECOVERY AFTER COLD AND INTERMITTENT HYPOBARIC HYPOXIA TREATMENTS  
Santocildes, G. et al [Spain]

16:45 OP-PM13-4  
COMPARISON BETWEEN HIGH AND LOW INTENSITY ECCENTRIC CYCLING OF EQUAL TOTAL VOLUME FOR MUSCLE DAMAGE PROFILE  
Mavropalias, G. et al [Australia]

17:00 OP-PM13-5  
EFFECT OF A HIGH SPEED RUNNING PROTOCOL ON DELAYED ONSET MUSCLE SORENESS AND MUSCLE PERFORMANCE AMONG HEALTHY AND ACTIVE ADULTS.  
Fares, R. et al [Spain]

## OP-BN03

### South Hall 2B

#### Motor learning and motor control: Feedback - Talent - Balance

Chair(s):  
Gollhofer, A. [Germany]  
Giardina, M. [Italy]

16:00 [YIA] OP-BN03-1  
SHORT-TERM MOTIVATIONAL AND INFORMATIONAL EFFECTS OF AUGMENTED FEEDBACK DURING MAXIMAL MOTOR TASKS  
Bugnon, M. et al [Switzerland]

16:15 [YIA] OP-BN03-2  
MOTOR PERFORMANCE AND ITS DEVELOPMENT IN ADOLESCENCE: RELEVANT PREDICTORS FOR ADULT SUCCESS IN ELITE FEMALE SOCCER?  
Leyhr, D. et al [Germany]

16:30 [YIA] OP-BN03-3  
IMPROVED POSTURAL CONTROL IN THE ELDERLY AFTER LONG-TERM BALANCE TRAINING IS RELATED TO INTRACORTICAL INHIBITION MODULATION  
Kuhn, Y.A. et al [Switzerland]

16:45 [YIA] OP-BN03-4  
THE RELATION BETWEEN LIMB SEGMENT COORDINATION DURING WALKING AND FALL HISTORY IN

COMMUNITY-DWELLING OLDER ADULTS  
Yamagata, M. et al [Japan]  
17:00 OP-BN03-5  
MOTOR LEARNING OF A NEW BALANCE TASK: THE INFLUENCE OF DIFFERENT KINDS OF PRIOR MOTOR PRACTICE ON TRAINING OUTCOMES.  
Keller, M. et al [Switzerland]

## IS-BN01

### North Hall

#### Stability training throughout the lifespan

Chair(s):  
Behm, D. [Canada]  
16:00 IS-BN01-1  
POWER PERFORMANCE DURING RESISTANCE EXERCISES UNDER STABLE AND UNSTABLE CONDITIONS  
Zemkova, E. [Slovakia]

16:30 IS-BN01-2  
EFFECTS OF INSTABILITY RESISTANCE TRAINING ACROSS THE EXERCISE CONTINUUM IN SENIORS  
Granacher, U. [Germany]

17:00 IS-BN01-3  
STABLE, UNSTABLE, AND METASTABLE STATES OF EQUILIBRIUM: DEFINITIONS AND APPLICATIONS TO TRAINING AND MOVEMENT WITH CHILDREN  
Behm, D. [Canada]

## OP-MI03

### Club A

#### Training and testing

Chair(s):  
Buckley, J. [Australia]  
Heller, J. [Czech Republic]  
16:00 OP-MI03-1  
THE PHYSIOLOGICAL DEMANDS OF NATIONAL HUNT RACING ON PROFESSIONAL JOCKEYS  
Michael, K. [Ireland]

16:15 OP-MI03-2  
INVESTIGATING THE PHYSICAL DEMANDS OF AN ELITE YOUTH TENNIS TRAINING CAMP  
Fleming, J.A. et al [United Kingdom]

16:30 OP-MI03-3  
HUMAN TRAINABILITY: EXPLORING THE HERITABILITY AND MODALITY DEPENDENCE OF FITNESS AND STRENGTH ADAPTATIONS IN A RANDOMISED CROSS-OVER STUDY OF TWINS  
Marsh, C. et al [Australia]

16:45 OP-MI03-4  
DIFFERENCES IN VENTILATORY EFFICIENCY BETWEEN CYCLE ERGOMETER AND HALF-SQUAT EXERCISES  
Suárez-Rodríguez, D. et al [Spain]

17:00 OP-MI03-5  
MORPHOMECHANICAL CHARACTERISTICS OF MUSCLE IN PATIENTS WITH DIABETES MELLITUS  
Lu, Y.J. et al [Taiwan]

## OP-PM09

### Club E

#### Physiology: Training and testing

Chair(s):  
Verdijk, L. [Netherlands]  
Jürimäe, J. [Estonia]

16:00 OP-PM09-1  
SLEEP AND APPETITE RESPONSES TO A 6-WEEK TRAINING PROGRAM IN MIDDLE-AGE, INACTIVE WOMEN  
Skein, M. et al [Australia]

16:15 OP-PM09-2  
BIO-BANDING IN YOUTH ELITE SOCCER PLAYERS – A PILOT STUDY  
Lüdin, D. et al [Switzerland]

16:30 OP-PM09-3  
COMPARISON OF DIFFERENT MEASUREMENT TECHNIQUES FOR QUANTIFYING WHOLE BODY MUSCLE HYPERTROPHY IN MEN  
Cupeiro, R. et al [Spain]

16:45 OP-PM09-4  
VALIDITY AND RELIABILITY OF VO2 MASTER PRO  
Dostal, J. et al [Czech Republic]  
17:00 OP-PM09-5  
THE EFFICACY OF CONTRALATERAL MUSCLE REHABILITATION EXERCISE ON PERCEIVED AND FUNCTIONAL PERFORMANCE FOLLOWING ANTERIOR CRUCIATE LIGAMENT (ACL) RECONSTRUCTION.  
Bailey, A. et al [United Kingdom]

## OP-BN06

### Club H

#### Team sports: Soccer

Chair(s):  
Spencer, M. [Norway]  
Angius, L. [United Kingdom]

16:00 OP-BN06-1  
NEUROMUSCULAR READINESS TO RE-PERFORM IN FEMALE YOUTH SOCCER PLAYERS POST COMPETITIVE MATCH-PLAY  
Hughes, J.D. et al [United Kingdom]

16:15 OP-BN06-2  
DEVELOPMENT AND VALIDATION OF THE REFEREE TRAINING ACTIVITY QUESTIONNAIRE (RTAQ): TOWARDS A BETTER UNDERSTANDING OF THE TRAINING PRACTICES OF SOCCER REFEREES  
McEwan, G. et al [United Kingdom]

16:30 OP-BN06-3  
EFFECTS OF LONG-TERM MUSCULAR ENDURANCE VS. POWER TRAINING ON ANTHROPOMETRY, BODY COMPOSITION, AND PHYSICAL FITNESS IN FEMALE YOUNG SOCCER PLAYERS  
Lesinski, M. et al [Germany]

16:45 OP-BN06-4  
NEURAL CORRELATE OF PROCESSING CAPACITY IN ELITE SOCCER PLAYERS  
Huang, S.W. et al [Taiwan]

17:00 OP-BN06-5  
THE EFFECT OF POST WARM-UP PASSIVE RECOVERY DURATION ON REPEATED SPRINT PERFORMANCE IN FEMALE FOOTBALL PLAYERS  
Kawata, F. et al [Japan]

17:15 OP-BN06-6  
EVALUATION OF MAXIMAL HEART RATE IN RECREATIONAL FOOTBALL PLAYERS USING LABORATORY AND FIELD TESTING  
Póvoas, S. et al [Portugal]

## OP-SH02

### Terrace 2A

#### Sport statistics and analyses

Chair(s):  
Madigan, D. [United Kingdom]  
Heazlewood, I. [Australia]  
16:00 [YIA] OP-SH02-1  
THE IMPORTANCE OF PERFORMANCE IN COMPETITIONS AS AN INDICATOR OF FUTURE SUCCESS IN CYCLING  
Mostaert, M. [Belgium]

16:15 [YIA] OP-SH02-2  
EMERGENCY NURSES' ACTIVITY ACCUMULATED WITHIN SHIFTS  
Chappel, S.E. et al [Australia]

16:30 [YIA] OP-SH02-3  
INCREASING PHYSICAL ACTIVITY WITH HEALTH APPS FOR FAMILIES: A QUALITATIVE CONTENT ANALYSIS  
Baumann, H. et al [Germany]

16:45 OP-SH02-4  
PREDICTION OF ATTACKING PATTERNS IN SOCCER GAME USING NLP DEEP LEARNING MODEL  
MATSUOKA, H. et al [Japan]

17:00 OP-SH02-5  
CHANGE IN ANTHROPOMETRIC DATA OF 9-YEAR-OLD SCHOOLCHILDREN BETWEEN 1970 AND 2017  
Krug, J. et al [Germany]

# Oral & Invited Presentations

## OP-SH07

### Terrace 2B

#### Psychology: Stress and anxiety

Chair(s):

Lemyre, P. [Norway]  
MacIntyre, T. [Ireland]

16:00 OP-SH07-1

A LONGITUDINAL ANALYSIS OF THE RELATIONSHIP BETWEEN MENTAL FATIGUE, FATIGUE AND TIREDNESS IN ELITE AND INTERNATIONAL NETBALL PLAYERS.

Russell, S. et al [Australia]

16:15 OP-SH07-2

A 4-WEEK ENDURANCE TRAINING PROGRAM IMPROVES TOLERANCE TO MENTAL EXERTION IN UNTRAINED INDIVIDUALS

Filipas, L. et al [Italy]

16:30 OP-SH07-3

COMPETITIVE AND ORGANISATIONAL STRESSORS FACED BY PROFESSIONAL JOCKEYS IN IRELAND

King, L. et al [Ireland]

16:45 OP-SH07-4

UTILITY OF A THREE-DIMENSIONAL DYNAMICAL SYSTEMS FRAMEWORK TO BETTER UNDERSTAND STRAIN-PERCEPTION-THINKING-ACTION COUPLING IN THE PHENOMENOLOGICAL EXPERIENCE OF "HITTING THE WALL"

Venhorst, A. et al [South Africa]

17:00 OP-SH07-5

ADRENAL STEROID LEVELS, METABOLIC AND CARDIORESPIRATORY PARAMETERS CHANGES IN RESPONSE TO EXTREME PHYSICAL STRESS IN MALE HANDBALL PLAYERS

Csöndör, É. et al [Hungary]

## Wednesday, July 3

17:45 - 19:00

### PL-PS01

#### Congress Hall

##### Springs and sprinters

Chair(s):

Finni, T. [Finland]

17:45

PL-PS01-1

THE SPRING IN YOUR STEP: THE IMPORTANCE OF MUSCLE AND TENDON DESIGN FOR HUMAN PERFORMANCE.

Lichtwark, G. [Australia]

18:25

PL-PS01-2

MAXIMUM SPRINTING: CAN WE TRANSFER OUR BIOMECHANICAL KNOWLEDGE TO IMPROVE ATHLETES' PERFORMANCE

Salo, A.I.T. [Finland]

## Thursday, July 4

08:00 - 09:30

### IS-MI02

#### Congress Hall

##### Advances in athlete development research

Chair(s):

Cobley, S. [Australia]

08:00

IS-MI02-1

MULTI-DISCIPLINARY LONGITUDINAL ATHLETE DEVELOPMENT: KNOWLEDGE ADVANCES FROM THE GRONINGEN TALENT STUDIES

Elferink-Gemser, M. [Netherlands]

08:30

IS-MI02-2

MULTI-DISCIPLINARY LONGITUDINAL ATHLETE DEVELOPMENT: KNOWLEDGE ADVANCES FROM TRACKING ADOLESCENT ATHLETES IN UK RUGBY LEAGUE

Till, K. [United Kingdom]

09:00

IS-MI02-3

ADVANCES IN ATHLETE DEVELOPMENT RESEARCH

Cobley, S. [Australia]

### OP-PM14

#### Panorama Hall

##### Physical activity / inactivity I

Chair(s):

Vanlandewijck, Y. [Belgium]

Pfister, G. [Denmark]

08:00

[YIA] OP-PM14-1

TELEPHONE-BASED COACHING AND PROMPTING FOR PHYSICAL ACTIVITY PROMOTION: SHORT AND LONG-TERM FINDINGS OF A RANDOMIZED CONTROLLED TRIAL (MOVINGCALL)

Fischer, X. et al [Switzerland]

08:15

[YIA] OP-PM14-2

SOCIO-DEMOGRAPHIC PATTERNING OF OBJECTIVELY MEASURED PHYSICAL ACTIVITY AND SEDENTARY BEHAVIORS IN EIGHT LATIN AMERICAN COUNTRIES: FINDINGS FROM THE ELANS STUDY

Ferrari, G.L.M. et al [Chile]

08:30

[YIA] OP-PM14-3

SELF-REPORTED FACILITATORS AND BARRIERS OF PRIMARY HEALTHCARE GENERAL PRACTITIONERS AND NURSES TO IMPLEMENT EXERCISE PRESCRIPTION ACCORDING TO EXERCISE IS MEDICINE INITIATIVE

Calonge-Pascual, S. et al [Spain]

08:45

[YIA] OP-PM14-4

PREFRONTAL OXYGENATION RESERVE: LINK BETWEEN PHYSICAL ACTIVITY LEVEL AND EXECUTIVE FUNCTIONING DURING COMPUTERIZED STROOP TASK IN HEALTHY YOUNG MALES

Goenarjo, R. et al [France]

09:00

[YIA] OP-PM14-5

THE BRIEF EXERCISE AT WORK (BE@WORK) TRIAL: EFFECTS OF WORKPLACE-BASED HIGH-INTENSITY INTERVAL TRAINING ON PHYSICAL FITNESS, CARDIOMETABOLIC HEALTH AND WELLBEING IN OFFICE WORKERS

Burn, N. et al [United Kingdom]

09:15

OP-PM14-6

ADHERENCE TO PHYSICAL EXERCISE TREATMENT BY PATIENTS WITH, OR AT RISK OF, TYPE 2 DIABETES MELLITUS: A SYSTEMATIC REVIEW AND META-ANALYSIS

Jabardo, G. et al [Spain]

## OP-PM05

### South Hall 1A

#### Lifestyle: Ageing

Chair(s):

Verdijk, L. [Netherlands]

Heller, J. [Czech Republic]

08:00

[YIA] OP-PM05-1

BODY AGE ASSESSMENT – MOTIVATION FOR HEALTHIER LIFESTYLE IN 3844 DANISH EMPLOYEES

Husted, K. et al [Denmark]

08:15

[YIA] OP-PM05-2

SIT-TO-STAND MUSCLE POWER TEST IS A SENSITIVE AND CLINICALLY RELEVANT TOOL TO MONITOR CHANGES IN LOWER-LIMB MUSCLE POWER THROUGHOUT THE LIFESPAN

Alcazar, J. et al [Spain]

08:30

[YIA] OP-PM05-3

THE EFFECTS OF A 12-MONTH STRUCTURED EXERCISE PROGRAMME ON THE PROGRESSION OF MILD COGNITIVE IMPAIRMENT

Stuckenschneider, T. et al [Germany]

08:45

[YIA] OP-PM05-4

THE TIME COURSE OF PHYSIOLOGICAL ADAPTIONS TO HIGH INTENSITY INTERVAL TRAINING IN HEALTHY OLDER ADULTS.

Herrod, P.J.J. et al [United Kingdom]

09:00

OP-PM05-5

HEALTHBIKES: INDIVIDUAL E-BIKE POWER REGULATION APPLIED IN HEART PATIENTS AND HEALTHY TRAINED STUDENTS

Schützenhöfer, M. et al [Austria]



## OP-PM07

## South Hall 1B

## Hormonal biology

- Chair(s):  
Hoffman, J. [United States]  
Patricia, D. [Canada]  
08:00 [YIA] OP-PM07-1  
THE PHYSIOLOGICAL AND MECHANISTIC EFFECTS OF CHEMICAL ENDOGENOUS TESTOSTERONE DEPLETION DURING RESISTANCE EXERCISE TRAINING IN YOUNGER MEN: A DOUBLE-BLIND PLACEBO-CONTROLLED CLINICAL TRIAL  
Gharahdaghi, N. et al [United Kingdom]  
08:15 [YIA] OP-PM07-2  
EFFECTS OF A TIME-MATCHED ENDURANCE AND CONCURRENT TRAINING ON CIRCULATING SEX HORMONES AND BODY COMPOSITION IN OBESE POSTMENOPAUSAL WOMEN  
Gonzalo-Encabo, P. et al [Spain]  
08:30 OP-PM07-3  
ANGIOTENSIN CIRCULATING LEVELS AFTER MAXIMAL EXERCISE IN ELITE CYCLISTS  
Motta-Santos, D. et al [Brazil]  
08:45 OP-PM07-4  
EFFECTS OF STRENGTH TRAINING ON BODY COMPOSITION, BIOCHEMICAL PARAMETERS AND PHYSICAL PERFORMANCE IN HYPOGONADAL PATIENTS  
Kralik, M. et al [Slovakia]  
09:00 OP-PM07-5  
EFFECTS OF OESTROGEN AND PROGESTERONE ON SUBSTRATE OXIDATION AND RESPIRATORY VARIABLES  
Benítez, J.A. et al [Spain]  
09:15 OP-PM07-6  
ACUTE HORMONAL RESPONSES TO AN INTENSE RESISTANCE EXERCISE PROTOCOL IN UNTRAINED MEN AND WOMEN  
Maresh, C. [United States]

## OP-BN02

## South Hall 2A

## Balance and stability

- Chair(s):  
Zemkova, E. [Slovakia]  
Kay, A. [United Kingdom]  
08:00 [YIA] OP-BN02-1  
TASK-SPECIFIC ADAPTABILITY BUT DIMINISHED RETENTION OF FALL-RESISTING SKILLS IN OLD AGE  
König, M. et al [United Kingdom]  
08:15 [YIA] OP-BN02-2  
COMPARISON OF POSTURAL CONTROL IN CANCER PATIENTS WITH MATCHED HEALTHY CONTROLS  
Müller, J. et al [Germany]  
08:30 [YIA] OP-BN02-3  
INCREASED KNEE VARUS ANGLE AS A RISK FACTOR FOR LATERAL ANKLE SPRAINS DURING SINGLE-LEG LANDINGS -16-MONTH COHORT STUDY  
Mineta, S. [Japan]  
08:45 [YIA] OP-BN02-4  
THE PROFILE AND DEVELOPMENT OF THE TIBIOFEMORAL ANGLE IN SETSWANA CHILDREN BETWEEN THE AGES OF 2 TO 9 YEARS.  
van Aswegen, M. et al [South Africa]  
09:00 OP-BN02-5  
ALTERATIONS OF MOVEMENT QUALITY JOINT LOADING AND MUSCLE ACTIVITY DURING A CROSS- COORDINATION MOVEMENT ON STABLE AND UNSTABLE SURFACES  
Pohl, T. et al [Germany]  
09:15 OP-BN02-6  
THE IMPACT OF A PASSIVE UNILATERAL LOWER LIMB EXOSKELETON ON HUMAN BALANCE CONTROL  
Ringhof, S. et al [Germany]

## OP-BN07

## South Hall 2B

## Skill acquisition

- Chair(s):  
Vogt, T. [Germany]  
08:00 OP-BN07-1  
IDENTIFICATION OF ELITE PERFORMANCE CHARACTERISTICS IN A SMALL SAMPLE OF TAEKWONDO ATHLETES  
Norjali Wazir, M.R.W. et al [Belgium]  
08:15 OP-BN07-2  
REAL-TIME MUSCLE CONTRACTION FEEDBACK SYSTEM FOR PEDALING ANALYSIS BASED ON SURFACE EMG AND LOWER LIMB MUSCLE LENGTH  
Abe, N. et al [Japan]  
08:30 OP-BN07-3  
INTERFERENCE OF BALANCE TASKS REVISITED: LEARNING OF NON-POSTURAL TASKS SEEMS TO IMPAIR CONSOLIDATION OF BALANCE TASKS  
Egger, S. et al [Switzerland]  
08:45 OP-BN07-4  
EFFECTS OF EXTERNAL VERSUS INTERNAL FOCUSED INSTRUCTIONS FOR KNEE ALIGNMENT ON WHOLE BODY KINEMATICS OF LANDING AND JUMPING MOVEMENTS  
Werner, I. et al [Austria]  
09:00 OP-BN07-5  
THE WALK-RUN TRANSITION IS NOT AFFECTED BY ADDED COGNITIVE LOADING  
Hansen, E. et al [Denmark]

## OP-PM17

## North Hall

## Thermoregulation I

- Chair(s):  
Minahan, C. [Australia]  
Skorski, S. [Germany]  
08:00 OP-PM17-1  
IS SKIN TEMPERATURE RELATED TO PHYSIOLOGICAL STRESS AFTER A HALF MARATHON?  
Priego Quesada, J.I. et al [Spain]  
08:15 OP-PM17-2  
EFFECTIVENESS OF SELF- VERSUS EXTERNALLY-CONTROLLED HEAT STRAIN DURING HEAT ACCLIMATION  
Prout, J.R.P. et al [New Zealand]  
08:30 OP-PM17-3  
EFFECTS OF IN-PLAY COOLING INTERVENTIONS DURING TENNIS MATCH PLAY IN THE HEAT ON PERFORMANCE, PHYSIOLOGICAL, AND PERCEPTUAL MEASURES  
Wiewelhoeve, T. et al [Germany]  
08:45 OP-PM17-4  
PREPARATION FOR THE TOKYO OLYMPIC GAMES: IS THERE AN ERGOGENIC POTENTIAL OF COMBINING HEAT AND HYPOXIC ACCLIMATION?  
Sotiridis, A. et al [Slovenia]  
09:00 OP-PM17-5  
INFLUENCE OF HYPEROXIA ON TIME TRIAL PERFORMANCE IN HOT AND COOL CONDITIONS  
Périard, J.D. et al [Australia]  
09:15 OP-PM17-6  
TOKYO 2020 OLYMPIC GAMES: THE EFFECTS OF HOT CLIMATE ON CYCLIST'S PHYSIOLOGICAL PARAMETERS  
Cupido Santos, A. et al [Portugal]

## OP-BN08

## Club A

## Motor unit function I

- Chair(s):  
Behm, D. [Canada]  
Hendy, A. [Australia]  
08:00 OP-BN08-1  
YOU ARE AS FAST AS YOUR MOTOR NEURONS: SPEED OF RECRUITMENT AND MAXIMAL DISCHARGE OF MOTOR NEURONS DETERMINE THE MAXIMAL RATE OF FORCE DEVELOPMENT IN HUMANS  
Del Vecchio, A. et al [United Kingdom]  
08:15 OP-BN08-2  
EFFECTS OF THREE DIFFERENT RATES OF FORCE DEVELOPMENT ON ALPHA MOTOR INHIBITION AT DISTINCT TORQUES  
Flüthmann, N. et al [Germany]  
08:30 OP-BN08-3  
OPTIMISATION OF A TECHNIQUE TO ESTIMATE PERSISTENT INWARD CURRENTS IN SPINAL MOTOR NEURONES  
Mesquita, R.N.O. et al [Australia]  
08:45 OP-BN08-4  
CHANGES IN SUPRAMAXIMAL M WAVE INDUCED BY ECCENTRIC EXERCISE ARE SITE-DEPENDENT IN THE BICEPS BRACHII MUSCLE.  
Cabral, H.V. et al [Brazil]  
09:00 OP-BN08-5  
SEX-AND AGE-RELATED DIFFERENCES IN EMG-THRESHOLD, DETERMINED VIA AN INTERMITTENT ISOMETRIC CONTRACTION PROTOCOL  
Woods, S. et al [Canada]  
09:15 OP-BN08-6  
NEUROMUSCULAR MOTOR UNIT ADAPTIVE STRATEGY IN THE VASTUS MEDIALIS MUSCLE OF YOUNG AND OLD ADULT  
Hu, C.H. et al [Taiwan]

# Oral & Invited Presentations

## OP-MI04

### Club E

#### Youth football

Chair(s):

Spencer, M. [Norway]

Wong, D. [China]

08:00 OP-MI04-1

A MULTIDIMENSIONAL INSIGHT INTO THE DIFFERENCES BETWEEN BOYS AND GIRLS WITHIN AUSTRALIAN SOCCER

O'Brien-Smith, J. et al [Australia]

08:15 OP-MI04-2

A PROFILE OF THE PHYSICAL, TECHNICAL AND TACTICAL SKILLS, AND PATHWAYS THAT UNDERPIN EXPERTISE IN AUSTRALIAN YOUTH SOCCER PLAYERS

Bruce, L. et al [Australia]

08:30 OP-MI04-3

HOW TO IMPROVE YOUR NON-PREFERRED FOOT? TRAINING TRANSFER FROM TASK-SPECIFIC SKILLS TO SMALL-SIDED GAMES IN YOUNG SOCCER PLAYERS. THE INEX PROJECT.

Fernandes, T. et al [Portugal]

08:45 OP-MI04-4

RELATIONSHIP BETWEEN CHANGES IN AEROBIC FITNESS AND A TRAINING INDUCED FATIGUE RESPONSE IN ELITE YOUTH FOOTBALL PLAYERS

Fitzpatrick, J.F. et al [United Kingdom]

09:00 OP-MI04-5

ATHLETE MONITORING ACROSS A COLLEGIATE FOOTBALL (SOCCER) PRE-SEASON

FIELDS, J.B. et al [United States]

## OP-SH08

### Club H

#### Sport, environment, globalization

Chair(s):

Radmann, A. [Norway]

Gems, G. [United States]

08:00 OP-SH08-1

SEDENTARY LIFESTYLE, BODY ECOLOGY, AND SUSTAINABLE DEVELOPMENT

Loland, S. [Norway]

08:15 OP-SH08-2

GLOBALIZATION AND PROSPECT OF SPORTS TOURISM IN EAST ASIA

Jun, H.M. et al [Korea, South]

08:30 OP-SH08-3

THE ROLE OF SPORT EXCHANGES IN PROMOTING CHINA'S INTERNATIONAL RELATIONS

Yuan, Z. [China]

## OP-SH04

### Terrace 2A

#### Physical education and pedagogics

Chair(s):

Diketmüller, R. [Austria]

08:00 [YIA] OP-SH04-1

A MIXED METHODS FIDELITY ASSESSMENT OF A MENTAL SKILLS TRAINING PROGRAMME FOR DISADVANTAGED YOUTH

Tidmarsh, G. et al [United Kingdom]

08:15 [YIA] OP-SH04-2

CLASSROOM STANDING DESK AND TIME-SERIES VARIATION IN SEDENTARY BEHAVIOUR AND PHYSICAL ACTIVITY AMONG PRIMARY SCHOOL CHILDREN

Kidokoro, T. et al [Japan]

08:30 OP-SH04-3

A GORDIAN KNOT: THE SELECTION PROCESS FOR PERMANENT PHYSICAL EDUCATION TEACHING

POSITIONS IN SPAIN

González-Calvo, G. et al [Sweden]

08:45 OP-SH04-4

CARDIORESPIRATORY FITNESS, COGNITIVE FLEXIBILITY AND SCHOLASTIC PERFORMANCE IN CHILDREN: EXPLORING MEDIATION MECHANISMS

Yanguez Escalera, M. et al [Switzerland]

09:00 OP-SH04-5

EDUBALLS - AN INNOVATIVE INTERDISCIPLINARY TEACHING APPROACH TO PHYSICAL EDUCATION FOR PRESCHOOL AND ELEMENTARY SCHOOL

Rokita, A. et al [Poland]

09:15 OP-SH04-6

EVALUATION OF AN INCREASED NUMBER OF PHYSICAL EDUCATION LESSONS

Reif, A. [Austria]

## IS-SH01

### Terrace 2B

#### Athletes mental health - FEPSAC Symposium

Chair(s):

Elbe, A. [Germany]

08:00 IS-SH01-1

FROM A FIRST INSIGHT TO A DEEPER KNOWLEDGE OF DEPRESSION IN ELITE ATHLETES

Nixdorf, I. [Germany]

08:30 IS-SH01-2

PERFECTIONISM AND ATHLETE BURNOUT: REVIEW, CRITIQUE, AND RECOMMENDATIONS

Madigan, D. [United Kingdom]

09:00 IS-SH01-3

PROMOTING WELL-BEING AND PREVENTING MENTAL HEALTH DISORDERS: NATURE CONTACT AS A PATHWAY TO RESTORATION AMONG ATHLETES

MacIntyre, T. [Ireland]

## Thursday, July 4

### 09:45 - 11:15

## IS-PM01

### Congress Hall

#### The effects of acute exercise and long-term exercise training on heart

Chair(s):

Heinonen, I. [Finland]

09:45 IS-PM01-1

MYOCARDIAL PERFUSION AND OXYGENATION DURING EXERCISE IN HEALTH AND DISEASE

Merkus, D. [Netherlands]

10:15 IS-PM01-2

ECHOCARDIOGRAPHIC ASSESSMENT OF CARDIAC STRUCTURE AND FUNCTION FOLLOWING PROLONGED STRENUOUS EXERCISE

Oxborough, D. [United Kingdom]

10:45 IS-PM01-3

ACUTE AND LONG-TERM EFFECTS OF EXERCISE ON MYOCARDIAL FUNCTION, PERFUSION AND METABOLISM

Heinonen, I. [Finland]

## IS-SP02

### Panorama Hall

#### Multi-disciplinary approach in professional football: Return to play from musculoskeletal injuries - Sponsored by GSSI

Chair(s):

Rollo, I. [United Kingdom]

IS-SP02-1

INTERDISCIPLINARY APPROACH TO RETURN TO PLAY FROM MUSCULOSKELETAL INJURIES IN PROFESSIONAL SOCCER

SIONAL SOCCER

Holohan, D. et al [United Kingdom]

IS-SP02-2

MULTI-/INTERDISCIPLINARY APPROACH TO RETURN TO PLAY FROM MUSCULOSKELETAL INJURIES IN PROFESSIONAL SOCCER

Close, G.L. [United Kingdom]

IS-SP02-3

RETURN TO PLAY FROM MUSCULOSKELETAL INJURIES: PSYCHOLOGICAL CONSIDERATIONS

Duda, J. et al [United Kingdom]

## OP-PM04

### South Hall 1A

#### Metabolic fitness and flexibility

Chair(s):

Paoli, A. [Italy]

Wagenmakers, A. [United Kingdom]

09:45 [YIA] OP-PM04-1

THREE DAYS BED REST APPRECIABLY IMPAIRS WHOLE-BODY GLUCOSE DISPOSAL (WHICH IS FULLY RESTORED BY EXERCISE), BUT IS NOT FURTHER AC-CENTUATED AFTER 56 DAYS BED REST

Shur, N.F. et al [United Kingdom]

10:00 [YIA] OP-PM04-2

EXERCISE-INDUCED IMPROVEMENTS IN POSTPRANDIAL GLUCOSE RESPONSE ARE BLUNTED BY PRE-EXERCISE HYPERGLYCAEMIA

Carter, S. et al [United Kingdom]

10:15 [YIA] OP-PM04-3

CHRONIC EFFECTS OF HIGH INTENSITY INTERVAL TRAINING ON POSTPRANDIAL LIPAEMIA IN HEALTHY MALES

Wilhelmsen, A. et al [United Kingdom]

10:30 [YIA] OP-PM04-4

PEAK FAT OXIDATION RATE AND FATMAX ARE ASSOCIATED WITH LONG-DISTANCE CROSS-COUNTRY SKIING PERFORMANCE

Hansen, M.T. et al [Denmark]

10:45 OP-PM04-5  
FOREARM IMMOBILIZATION-INDUCED INSULIN RESISTANCE OF GLUCOSE UPTAKE IS NOT EXACERBATED BY HIGH-FAT OVERFEEDING IN HEALTHY, YOUNG MALES  
Dirks, M.L. et al [United Kingdom]

11:00 OP-PM04-6  
THE ROLE OF FAT-FREE MASS IN METABOLIC HEALTH: AN OPPOSING PERSPECTIVE  
Lagacé, J.C. et al [Canada]

## OP-PM11

### South Hall 1B

#### Ageing

Chair(s):  
Wessner, B. [Austria]  
Thompson, W. [United States]  
09:45 [YIA] OP-PM11-1  
INTEGRATED MYOFIBRILLAR PROTEIN SYNTHESIS IN CHRONICALLY TRAINED MASTER ATHLETES COMPARED WITH UNTRAINED OLDER INDIVIDUALS  
McKendry, J. et al [United Kingdom]  
10:00 [YIA] OP-PM11-2  
NOVEL INSIGHTS INTO HUMAN SKELETAL MUSCLE CREATINE TRANSPORTER EXPRESSION AS A FUNCTION OF AGE  
Luo, D. et al [United Kingdom]  
10:15 [YIA] OP-PM11-3  
SHORT-TERM TRAINING AND DETRAINING RESPONSES FOLLOWING DIVERGENT EXERCISE MODALITIES IN MIDDLE-AGED MEN  
Callahan, M.J. et al [Australia]  
10:30 OP-PM11-4  
CHANGES IN PLASMA C1Q AND APELIN CONCENTRATIONS FOLLOWING DESCENDING VERSUS ASCENDING STAIR WALKING  
Nosaka, K. [Australia]  
10:45 OP-PM11-5  
EFFECT OF LONG-TERM REGULAR SUPERVISED AEROBIC-STRENGTH TRAINING ON FUNCTIONAL STATUS IN THE ELDERLY  
Slobodová, L. et al [Slovakia]

11:00 OP-PM11-6  
PULMONARY AND HEART RATE OFF-TRANSIENT KINETICS IN VERY OLD INDIVIDUALS  
Ferri, A. et al [Australia]

## OP-BN05

### South Hall 2A

#### Gait I

Chair(s):  
Hanley, B. [United Kingdom]  
Lindinger, S. [Sweden]  
09:45 [YIA] OP-BN05-1  
EFFECT OF HOME-BASED ROBOTIC-ASSISTED GAIT TRAINING ON SPATIOTEMPORAL GAIT PARAMETERS IN PATIENTS WITH CHRONIC STROKE  
Wright, A. et al [United Kingdom]  
10:00 OP-BN05-2  
PROSTHETIC GAIT OF UNILATERAL TRANSTIBIAL AMPUTEES WITH CURRENT AND NOVEL PROSTHESES  
De Pauw, K. et al [Belgium]  
10:15 OP-BN05-3  
TIMING OF GROUND REACTION FORCE PROGRESSION IN ELITE KENYAN VERSUS RECREATIONAL DISTANCE RUNNERS  
Burns, G.T. et al [United States]  
10:30 OP-BN05-4  
EFFECTS OF WALKING WITH UNSTABLE FOOTWEAR ON PELVIS-TRUNK COORDINATION VARIABILITY  
BUHECKER, M. et al [Austria]  
10:45 OP-BN05-5  
EFFECT OF TRICEPS SURAE MUSCLE-TENDON UNIT BIOMECHANICAL PROPERTIES ON WALKING ECONOMY IN OLDER ADULTS: A COMBINED CROSS-SECTIONAL AND LONGITUDINAL INVESTIGATION  
Epro, G. et al [United Kingdom]

## OP-MI01

### South Hall 2B

#### Training and testing: Talent

Chair(s):  
Shim, A. [United States]  
Till, K. [United Kingdom]  
09:45 [YIA] OP-MI01-1  
IMPROVING THE ACCURACY OF ATHLETE SELECTION IN YOUTH FEMALE SWIMMING: AN APPLICATION OF CORRECTIVE ADJUSTMENT PROCEDURES  
ABBOTT, S. et al [Australia]  
10:00 [YIA] OP-MI01-2  
THE RELATIVE AGE EFFECT IN AGE GROUP SWIMMING – GERMANY COMPARED TO AUSTRALIA  
Staub, I. et al [Germany]  
10:15 OP-MI01-3  
'BIRTHDAY-BANDING' AS A STRATEGY TO MODERATE THE RELATIVE AGE EFFECT: A CASE STUDY INTO THE ENGLAND SQUASH TALENT PATHWAY  
Jeffreys, M. et al [United Kingdom]  
10:30 OP-MI01-4  
THREE IN A ROW? RELATIONSHIP BETWEEN JUNIOR AND ELITE SUCCESS IN ROWING  
Hoffmann, A. et al [Germany]  
10:45 OP-MI01-5  
THE COGNITIVE AND PHYSICAL CHARACTERISTICS OF YOUNG, TALENTED GYMNASTS  
Laureys, F. et al [Belgium]  
11:00 OP-MI01-6  
MIND, BODY, AND SHUTTLE: MULTIDIMENSIONAL PROFILES OF BADMINTON YOUTH PLAYERS OF DIFFERENT LEVELS  
Robertson, K. [Belgium]

## OP-BN04

### North Hall

#### Neuromuscular Physiology

Chair(s):  
Hettinga, F. [United Kingdom]  
Duchateau, J. [Belgium]  
09:45 [YIA] OP-BN04-1  
FOUR WEEKS OF ISOMETRIC STRENGTH TRAINING DETERMINE DIFFERENTIAL CHANGES IN MUSCLE FIBRE CONDUCTION VELOCITY IN HIGH- AND LOW-THRESHOLD MOTOR UNITS  
Casolo, A. et al [Italy]  
10:00 [YIA] OP-BN04-2  
THE EFFECT OF FATIGUE RELATED SUSTAINED GROUP III/IV MUSCLE AFFERENT FIRING ON INTRACORTICAL EXCITATORY AND INHIBITORY BRAIN NETWORKS.  
Latella, C. et al [Australia]  
10:15 [YIA] OP-BN04-3  
ACUTE EFFECTS OF HEAVY- VS LIGHT-LOAD RESISTANCE TRAINING ON NEUROMUSCULAR AND FUNCTIONAL FATIGUE IN OLDER PEOPLE  
Rodriguez-Lopez, C. et al [Spain]  
10:30 [YIA] OP-BN04-4  
INFLUENCE OF KNEE EXTENSOR AND PLANTAR FLEXOR MUSCLE-TENDON BEHAVIOUR ON THE ENERGY COST OF RUNNING AT DIFFERENT SPEEDS  
Monte, A. et al [Italy]  
10:45 [YIA] OP-BN04-5  
NEUROMUSCULAR ADAPTATIONS INDUCED BY ELECTRICAL STIMULATION TRAINING APPLIED OVER THE NERVE AT LOW INTENSITY  
VITRY, F. et al [France]  
11:00 [YIA] OP-BN04-6  
A MUSCLE SYNERGY PERSPECTIVE ON MODULAR SHOULDER MUSCLE CONTROL DURING MULTIPLANAR MOVEMENTS  
Umehara, J. et al [Japan]

## OP-PM16

### Club A

#### Endurance

Chair(s):  
Mauger, A. [United Kingdom]  
Perret, C. [Switzerland]  
09:45 OP-PM16-1  
MUSCLE MISMATCH BETWEEN O<sub>2</sub> DELIVERY AND O<sub>2</sub> UPTAKE DURING LOWER AND UPPER LIMBS EXERCISES DETERMINED BY NEAR-INFRARED SPECTROSCOPY  
Baldassarre, G. et al [Italy]  
10:00 OP-PM16-2  
CYCLES OF ISCHEMIA AND REPERFUSION IMPROVE PERFORMANCE AND DECREASE SUBMAXIMAL HEART RATE ON INCREMENTAL CYCLING TEST  
Marocolo, M. et al [Brazil]  
10:15 OP-PM16-3  
CHANGES IN CARDIORESPIRATORY RESPONSES AND RUNNING ECONOMY DURING 45-MIN GRADED TREADMILL RUNNING EXERCISES  
Garnier, Y.M. et al [France]  
10:30 OP-PM16-4  
PERFORMANCE DECEPTION IN HYPEROXIA MAY IMPROVE SUBSEQUENT NORMOXIC CYCLING TRIAL PERFORMANCE  
Clark, B. et al [Australia]  
10:45 OP-PM16-5  
THE EFFECT OF SPEED AND GRADIENT ON RUNNING ECONOMY AND OXYGEN UPTAKE DURING DOWNHILL RUNNING  
Björklund, G. et al [Sweden]  
11:00 OP-PM16-6  
EFFECTS OF TAPER ON GLYCOGEN CONTENT AFTER AN EXPERIMENTAL "LIVING HIGH TRAINING LOW": A DOUBLE-BLIND PLACEBO-CONTROLLED STUDY  
Papoti, M. et al [Brazil]

# Oral & Invited Presentations

## OP-MI05

### Club E

#### Agility

- Chair(s):  
Zemkova, E. [Slovakia]  
Impellizzeri, F. [Australia]  
09:45 OP-MI05-1  
IDENTIFYING KEY PERFORMANCE METRICS ASSOCIATED TO HIGH/LOW POINTERS IN WHEELCHAIR RUGBY FROM AGILITY TEST  
Tsai, M. [Canada]  
10:00 OP-MI05-2  
THE INFLUENCE OF ENTRY AND EXIT TIME CONTRIBUTION ON CHANGE OF DIRECTION PERFORMANCE  
Clarke, R. et al [United Kingdom]  
10:15 OP-MI05-3  
MOVEMENT VARIABILITY IN THOSE WITH AND WITHOUT ATHLETIC GROIN PAIN DURING A RUNNING CUT TASK.  
Gore, S. et al [Ireland]  
10:30 OP-MI05-4  
ICE HOCKEY SPECIFIC REPEATED SHUTTLE SPRINT TEST PERFORMED ON ICE SHOULD NOT BE REPLACED BY OFF-ICE TESTING  
Legerlotz, K. et al [Germany]  
10:45 OP-MI05-5  
HEART RATE RESPONSE AND RATING OF PERCEIVED EXERTION DURING SUBMAXIMAL YO-YO IR1 TESTING ON SAND: A PILOT STUDY  
Szwajca, S. et al [Germany]

## OP-SH09

### Club H

#### History

- Chair(s):  
Loland, S. [Norway]  
09:45 OP-SH09-1  
THE ROLE OF SÃO PAULO CLUBS FOR THE DEVELOPMENT OF GYMNASTICS DEMONSTRATIONS IN THE EARLY TWENTIETH CENTURY: REFLECTIONS FOR GYMNASTICS FOR ALL IN THE 21ST CENTURY  
TOLEDO, E. [Brazil]  
10:00 OP-SH09-2  
AESTHETICS OF AFRICAN DIASPORA: RELATIONS BETWEEN LADJA (MARTINIQUE) AND CAPOEIRA (BRAZIL)  
Pasqua, L. et al [Brazil]  
10:15 OP-SH09-3  
HERO(INE) BOOMER, THE NATIONALIST CONSTRUCTION OF ELITE ATHLETES IN CHINESE SOCIETY  
Hu, X. [China]  
10:30 OP-SH09-4  
COMPARATIVE STUDY OF CHINESE AND WESTERN LEISURE SPORT CULTURES  
Li, J. et al [China]  
10:45 OP-SH09-5  
A CULTURAL STUDY OF DRAGON AND LION DANCES IN CHINA  
Xiaojun, H. [China]  
11:00 OP-SH09-6  
INVESTIGATION INTO THE CORRELATES AND DETERMINANTS OF OLYMPIC SUCCESS  
Soos, I. et al [Hungary]

## OP-SH03

### Terrace 2A

#### Psychology

- Chair(s):  
Franco, E. [Spain]  
MacIntyre, T. [Ireland]  
09:45 [YIA] OP-SH03-1  
PHYSICAL ACTIVITY AND SEDENTARY EXPERIENCES IN HIP AND KNEE OSTEOARTHRITIS: BALANCING BETWEEN BEING CONSTRAINED AND TO KEEP ENJOYING LIFE  
Kanavaki, A.M. et al [United Kingdom]  
10:00 [YIA] OP-SH03-2  
THE EFFECTS OF LOW ENERGY AVAILABILITY, ACHIEVED THROUGH DIET OR EXERCISE, ON COGNITIVE FUNCTION IN ORAL CONTRACEPTIVE USERS AND EUMENORRHEIC WOMEN  
Martin, D. et al [United Kingdom]  
10:15 [YIA] OP-SH03-3  
UNDERSTANDING BARRIERS AND ENABLERS FOR NUTRITIONAL ADHERENCE IN HIGH-PERFORMANCE SPORT  
Bentley, M.R.N. et al [United Kingdom]  
10:30 [YIA] OP-SH03-4  
HEALTH-RELATED AND PSYCHOSOCIAL CORRELATES OF SEDENTARY BEHAVIOUR IN PEOPLE LIVING WITH RHEUMATOID ARTHRITIS: A LONGITUDINAL STUDY  
O'Brien, C.M. et al [United Kingdom]  
10:45 OP-SH03-5  
EFFECTS OF LIFE-SKILLS DEVELOPMENT PROGRAM ON YOUNG ELITE FEMALE ATHLETES  
Horino, H. [Japan]  
11:00 OP-SH03-6  
CREATION AND VALIDATION OF THE HUNGARIAN SPORT MOTIVATION SCALE (H-SMS)  
Priszióka, G. et al [Hungary]

## IS-SH02

### Terrace 2B

#### The role of perception in sport

- Chair(s):  
Araujo, D. [Portugal]  
09:45 IS-SH02-1  
FOOTBALL PLAYERS' ACTION CHOICES IN A FREE-KICK TASK: ACTION-SPECIFIC EFFECTS ON PERCEPTION ARE GROUNDED IN AFFORDANCE PERCEPTION  
Savelsbergh, G. [Netherlands]  
10:15 IS-SH02-2  
EMBEDDING VIRTUAL REALITY SYSTEMS IN TRAINING PERCEPTUAL EXPLORATION BEHAVIOURS OF ENGLISH FOOTBALL ACADEMY PLAYERS: AN ECOLOGICAL DYNAMICS RATIONALE.  
Davids, K. [United Kingdom]  
10:45 IS-SH02-3  
ANTICIPATION AS PERCEPTION OF CONCATENATED AFFORDANCES  
Araujo, D. [Portugal]

## Thursday, July 4

### 11:30 - 12:45

#### PL-PS02

### Congress Hall

#### Personalized exercise oncology

- Chair(s):  
Wiskemann, J. [Germany]  
Pedersen, B. [Denmark]  
11:30 PL-PS02-1  
IMPLEMENTATION OF EXERCISE AND CANCER GUIDELINES IN EUROPE  
Schmitz, K. et al [United States]  
12:10 PL-PS02-2  
EVIDENCE-BASED EXERCISE GUIDELINES FOR PREVENTION AND TREATMENT OF CANCER  
Wiskemann, J. et al [Germany]



## Thursday, July 4

14:45 - 16:15

### IS-PM02

#### Congress Hall

##### Eccentric cycling: Basics and clinical applications [Clinical track]

Chair(s):

Dufour, S. [France]

14:45 IS-PM02-1

ACUTE PHYSIOLOGICAL RESPONSES TO ECCENTRIC CYCLING

Dufour, S.P. [France]

15:15 IS-PM02-2

ECCENTRIC CYCLING: BASICS AND CLINICAL APPLICATIONS

Nosaka, K. [Australia]

15:45 IS-PM02-3

ECCENTRIC CYCLING IN CHRONIC HEART FAILURE

Green, D.J. [Australia]

### OP-PM18

#### Panorama Hall

##### Health and fitness: Ageing I

Chair(s):

Polman, R. [Australia]

Esser, K. [United States]

14:45 OP-PM18-1

INTERVENTIONS TO IMPROVE AND SUSTAIN PHYSICAL FUNCTIONING, COGNITION AND PSYCHOSOCIAL WELLBEING FOR NURSING HOME RESIDENTS WHO ARE UNABLE TO WALK

Cordes, T. et al [Germany]

15:00 OP-PM18-2

NOVEL MAT EXERGAMING TO IMPROVE PHYSICAL PERFORMANCES, COGNITIVE FUNCTION, DUAL-

TASK WALKING, AND FALL RISK IN COMMUNITY-DWELLING OLDER ADULTS

Song, C. [Taiwan]

15:15 OP-PM18-3

CLUSTER ANALYSIS OF MOTOR AND COGNITIVE SKILLS OF INSTITUTIONALIZED INDIVIDUALS WITH DEMENTIA: 4 PHENOTYPES FOR DEVELOPING INDIVIDUALIZED PHYSICAL ACTIVITY PROGRAMS

BARISCH-FRITZ, B. et al [Germany]

15:30 OP-PM18-4

THE EFFECTS OF A MULTIMODAL EXERCISE PROGRAM PLUS BRAIN GAMES APPS IN COGNITIVE PARAMETERS OF NURSING HOME RESIDENTS

Raimundo, A. et al [Portugal]

15:45 OP-PM18-5

EFFECTS OF GROUP-BASED EXERCISE PROGRAM ON COGNITIVE FUNCTION, BIOMARKER AND SENIOR FUNCTIONAL FITNESS IN OLDER ADULTS AT DIFFERENT LEVELS OF COGNITIVE IMPAIRMENT

Ho, T.H. et al [Taiwan]

16:00 OP-PM18-6

FEASIBILITY STUDY OF PROLONGED STATIC AND DYNAMIC STANDING AS COMPARED TO SITTING IN OLDER ADULTS WITH TYPE 2 DIABETES MELLITUS

Marusic, U. et al [Slovenia]

### OP-PM19

#### South Hall 1A

##### Nutrition: Ergogenic aids I

Chair(s):

Morales-Álamo, D. [Spain]

Burke, L. [Australia]

14:45 OP-PM19-1

ISOLATED EVALUATION OF DIFFERENT SPORTS DRINKS COMPONENTS ON ENDURANCE PERFORMANCE AND SUBSTRATE OXIDATION IN CYCLING

Hottenrott, L. et al [Germany]

15:00 OP-PM19-2

CHRONIC LOW DOSE CAFFEINE INGESTION AND SELF-PACED HIGH INTENSITY TRAINING

Salam, H. et al [Iraq]

15:15

KETONE ESTER SUPPLEMENTATION BLUNTS OVER-REACHING SYMPTOMS AND STIMULATES PERFORMANCE DURING ENDURANCE TRAINING OVERLOAD

Poffé, C. et al [Belgium]

15:30 OP-PM19-4

TART CHERRY JUICE HAS NO EFFECT ON MUSCLE FUNCTION LOSS OR MUSCLE SORENESS FOLLOWING A SOCCER MATCH IN PROFESSIONAL PLAYERS

Clifford, T. et al [United Kingdom]

15:45 OP-PM19-5

CHINESE HERBAL DECOCTION (DANGGUI BUXUE TANG) SUPPLEMENTATION AUGMENTS PHYSICAL PERFORMANCE AND FACILITATES PHYSIOLOGICAL ADAPTATIONS IN SWIMMING RATS

Chang, C.W, Hsu, M.C, Wu, Y.T. [Taiwan]

### OP-PM20

#### South Hall 1B

##### Molecular biology and biochemistry: Genomics I

Chair(s):

Wessner, B. [Austria]

Flück, M. [Switzerland]

14:45 OP-PM20-1

THE EFFECT OF DIFFERENT KIND OF EXERCISE ON THE LINC RNA GENE EXPRESSION

Drozdzowska, S. et al [Ukraine]

15:00 OP-PM20-2

MICRORNA RESPONSES TO ACUTE RESISTANCE EXERCISE PROTOCOLS: A PILOT STUDY

Wood, N. et al [United Kingdom]

15:15 OP-PM20-3

MOLECULAR ANALYSIS AND SPORT PERFORMANCE IN ELITE RUGBY UNION PLAYERS

Pasqualetti, M. et al [Italy]

15:30 OP-PM20-4

ACTN3 GENOTYPES AND ITS RELATIONSHIP WITH MUSCLE MASS AND FUNCTION OF KOSOYAN ADULTS

Boshnjaku, A. et al [Austria]

15:45

ASSOCIATION BETWEEN RAAS GENE POLYMORPHISM AND ELITE LONG-DISTANCE RUNNERS PERFORMANCE

Yang, X. et al [China]

### OP-BN09

#### South Hall 2A

##### Sports physiotherapy: ACL

Chair(s):

Cabri, J. [Norway]

Nicol, C. [France]

14:45 OP-BN09-1

THE EFFECTIVENESS OF BLOOD FLOW RESTRICTION VS. HEAVY LOAD RESISTANCE TRAINING DURING REHABILITATION OF ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION PATIENTS: A UK NHS RANDOMISED CONTROLLED TRIAL

Hughes, L. et al [United Kingdom]

15:00 OP-BN09-2

LOWER LIMB ANTHROPOMETRICS AND KNEE DYNAMIC VALGUS AS EXPLANATORY FACTORS FOR LANDING KINETICS. A FEMALE SOCCER COHORT STUDY.

Bikandi, E. et al [Spain]

15:15 OP-BN09-3

ACUTE AND CHRONIC NEUROMUSCULAR ADAPTATIONS TO LOCAL VIBRATION: TOWARD A NEW NEUROMUSCULAR REHABILITATION MODALITY

Lapole, T. et al [France]

15:30 OP-BN09-4

EFFECTS OF SPORT-SPECIFIC SENSORIMOTOR TRAINING VS HYPERTROPHY TRAINING ON KNEE JOINT MOTOR CONTROL OF ELITE FEMALE HANDBALL PLAYERS IN SPORT-SPECIFIC RISK SITUATIONS

Erdrich, S. et al [Germany]

15:45 OP-BN09-5

EFFICACY OF HEAVY SLOW RESISTANCE TRAINING IN MANAGEMENT OF PATELLAR TENDINOPATHY: A SINGLE BLINDED RANDOMIZED CONTROLLED TRIAL

Wiesinger, H.P. et al [Austria]

### OP-MI06

#### South Hall 2B

##### Health and fitness

Chair(s):

Pratali, L. [Italy]

Perret, C. [Switzerland]

14:45 OP-MI06-1

BREAKING UP PROLONGED SEDENTARY TIME IN INDIVIDUALS WITH CHRONIC SPINAL CORD INJURY: THE SPINAL CORD INJURY MOVE MORE (SCIMM) STUDY.

Bailey, D. et al [United Kingdom]

15:00 OP-MI06-2

CARDIOVASCULAR RESPONSE TO PEAK VOLUNTARY EXERCISE IN MALES WITH CERVICAL SPINAL CORD INJURY

Machac, S. et al [Czech Republic]

15:15 OP-MI06-3

EFFECTIVENESS OF ACTIVE VIDEO GAMES USAGE ON INTELLECTUAL DISABLED CHILDREN'S BODY COMPOSITION, PHYSICAL ACTIVITY LEVEL AND MOTOR ABILITY

Wang, J. et al [China]

15:30 OP-MI06-4

THE RELATIONSHIP BETWEEN EXERCISE STARTING TIMING DURING PREGNANCY AND PREVALENCE OF SACROILIAC JOINT PAIN IN POSTPARTUM.

Kawabe, R. et al [Japan]

15:45 OP-MI06-5

EFFECTS OF EXERCISE AND EXERCISE COUNSELLING IN HEMODIALYSIS PATIENTS: PRELIMINARY RESULTS

Bogataj, S. et al [Slovenia]

16:00 OP-MI06-6

EXERCISE-BASED INTERVENTION AS A COMPLEMENTARY TOOL IN THE PROMOTION OF HEALTH OF PRISON INMATES WITH SEVERE MENTAL ILLNESS: A RANDOMIZED CONTROLLED TRIAL FROM THE PSYCHIATRIC PROJECT

Bueno-Antequera, J. [Spain]

# Oral & Invited Presentations

## IS-BN02

### North Hall

#### Not so simple? Muscle-tendon interaction to amplify or attenuate power in human movement

Chair(s):

Cronin, N. [Finland]

14:45 IS-BN02-1  
MUSCULAR ADAPTATION OF ANKLE-FOOT FUNCTION TO PRODUCE ACCELERATIONS IN HUMAN GAIT

Farris, D. [United Kingdom]

15:15 IS-BN02-2  
MUSCLE-TENDON FUNCTION IN ELITE HIGH JUMPERS

Albracht, K. et al [Germany]

15:45 IS-BN02-3  
MUSCLE-TENDON FUNCTION DURING A DISSIPATIVE TASK

Seynnes, O. [Norway]

## OP-BN10

### Club A

#### Testing and training in swimming I

Chair(s):

Fliess-Douer, O. [Israel]

Elferink-Gemser, M. [Netherlands]

14:45 OP-BN10-1  
THE EFFECT OF SWIMMING TRAINING IN SYNCHRONIZED SWIMMERS ABILITIES

LASKI, V. et al [Hungary]

15:00 OP-BN10-2  
THE EFFECT OF MUSCLE FATIGUE ON SCAPULAR KINEMATICS AND FUNCTIONALITY IN ADOLESCENT SWIMMERS

Ugur Ozyilmaz, U. et al [Turkey]

15:15

OP-BN10-3

INTRA-CYCLE VELOCITY FLUCTUATION IN SWIMMING: A NEW APPROACH

Gonjo, T. et al [Norway]

15:30

OP-BN10-4

ANALYSIS OF MUSCLE COORDINATION DURING UNDERWATER DOLPHIN KICKING USING MUSCLE SYNERGY METHOD

Yamakawa, K. et al [Japan]

## OP-MI07

### Club E

#### Training and testing: Military / mixed

Chair(s):

Bishop, D. [Australia]

Zemkova, E. [Slovakia]

14:45 OP-MI07-1  
OCCUPATIONALLY SPECIFIC, OPERATIONALLY RELEVANT PHYSICAL FITNESS TESTS AND STANDARDS FOR US AIR FORCE EXPLOSIVE ORDNANCE DISPOSAL AIRMEN

Baumgartner, N. et al [United States]

15:00 OP-MI07-2  
SALIVA CORTISOL CONCENTRATIONS DURING MILITARY SURVIVAL TRAINING

Ojanen, T. et al [Finland]

15:15 OP-MI07-3  
VALID ASSESSMENT OF MILITARY FITNESS. AN APPLIED MOTOR TEST FOR COMPLEX TASK DEMANDS.

Rohde, U. et al [Germany]

15:30 OP-MI07-4  
THE EFFECT OF MILITARY TRAINING ON BODY COMPOSITION AND BIOCHEMICAL MARKERS IN CZECH AIR FORCE PILOTS

GERYCH, D. et al [Czech Republic]

15:45 OP-MI07-5  
HIGH INTENSITY TREADMILL EXERCISE – REDUCING THE BREATH BY BREATH NOISE USING THE INDEPENDENT BREATH ALGORITHM

Francescato, M.P. et al [Italy]

16:00

OP-MI07-6

EFFECTS OF 10 WEEKS FUNCTIONAL EXERCISE TRAINING ON FUNCTIONAL MOVEMENT SCREEN AND Y-BALANCE TEST IN YOUNG MALE

dao, w. [China]

## OP-SH11

### Club H

#### Psychology: Cognition

Chair(s):

tekin, m. [Turkey]

Hendy, A. [Australia]

14:45 OP-SH11-1  
IMPROVING EXECUTIVE FUNCTIONING IN KINDERGARTEN CHILDREN – AN 8-WEEK INTERVENTION STUDY

Birklbauer, J. et al [Austria]

15:00 OP-SH11-2  
ACTIVE BREAK TO PROMOTE PHYSICAL ACTIVITY IN PRIMARY SCHOOL: EVALUATION OF PHYSICAL AND COGNITIVE FUNCTIONS AT BASELINE

Masini, A. et al [Italy]

15:15 OP-SH11-3  
A 10WEEK EXERCISE PROGRAM IN PRIMARY SCHOOL CHILDREN MODERATES COGNITIVE PERFORMANCE VIA CHANGES IN TESTOSTERONE: A RANDOMIZED CONTROL TRIAL

Akko, D.P. et al [Germany]

15:30 OP-SH11-4  
EFFECT OF EXERCISE DURATION ON COGNITIVE FUNCTION IN ADOLESCENTS

Cooper, S.B. et al [United Kingdom]

15:45 OP-SH11-5  
THE INFLUENCES OF CARDIORESPIRATORY FITNESS LEVELS ON VISUOSPATIAL WORKING MEMORY IN INDIVIDUALS WITH FAMILY HISTORY OF ALZHEIMER DISEASE

Chiu, Y.K. et al [Taiwan]

16:00 OP-SH11-6  
PHYSICAL FITNESS AND COGNITIVE FUNCTION IN AN AGEING POPULATION: RESULTS FROM A CROSS-

SECTIONAL AND RANDOMIZED CONTROLLED TRIAL

Faude, O. et al [Switzerland]

## OP-SH10

### Terrace 2A

#### Sport management

Chair(s):

Dikettmüller, R. [Austria]

Fritz, G. [Germany]

14:45 OP-SH10-1  
THE REFORM FOR RESTRUCTURING GERMAN COMPETITIVE SPORT AND THE PROMOTION OF TOP-LEVEL SPORT - GENESIS AND STATUS QUO

Schulze, E. et al [Germany]

15:00 OP-SH10-2  
FROM TRACKSUIT TO TRENCH COAT: THE CHANGING POSITION OF THE SWEDISH MALE ELITE SOCCER COACH BETWEEN THE 1960S AND THE 2010S.

Svensson, R. [Sweden]

15:15 OP-SH10-3  
'ONE SIZE DOES NOT FIT ALL': COMMONWEALTH GAMES ASSOCIATIONS' GOLD COAST 2018 TEAM DEVELOPMENT FROM A STAKEHOLDER PERSPECTIVE

Hollander, W. [South Africa]

15:30 OP-SH10-4  
SPORT FOR DEVELOPMENT OF SOCIETY: AN ANALYTICAL STUDY OF SOCIAL RESPONSIBILITY IN THE CONTEXT OF SPORT IN EGYPT

Abdelkhalek, M. et al [Egypt]

15:45 OP-SH10-5  
A CRITICAL ANALYSIS OF TOO PROMINENT TO FAIL IN TIMES OF NEYMAR

Schmidt, D. [Germany]

16:00 OP-SH10-6  
DELINEATING TALENT TRANSFER USING AN EVALUATION MANAGEMENT THEORY

Cury, R. et al [Australia]

## IS-SH03

### Terrace 2B

#### Advances in understanding the role of fundamental movement skills on children's physical activity, health and academic achievement

Chair(s):

Duncan, M. [United Kingdom]

14:45 IS-SH03-1  
OPTIMISING CHILDHOOD MOVEMENT IN IRELAND; THE FUNDAMENTAL 'BUILDING BLOCKS'

O'Brien, W. [Ireland]

15:15 IS-SH03-2  
UNDERSTANDING INTERACTIONS BETWEEN BIOLOGICAL AND BEHAVIOURS FACTORS AND MOTOR COMPETENCE IN PORTUGUESE PRE-SCHOOLERS.

Vale, S. [Portugal]

15:45 IS-SH03-3  
EVALUATING INTERVENTIONS FOR CHILDREN'S PHYSICAL ACTIVITY, MOTOR COMPETENCE AND ACADEMIC PERFORMANCE

Duncan, M. [United Kingdom]

## Thursday, July 4

16:45 - 18:15

### IS-PM03

#### Congress Hall

##### The skin circulation as a target for lifestyle intervention and innovation in measurement

- Chair(s):  
Cable, T. [United Kingdom]  
16:45 IS-PM03-1  
THE CUTANEOUS CIRCULATION IN AGEING AND DISEASE  
Alexander, L. [United States]  
17:15 IS-PM03-2  
EXERCISE TRAINING AND MICROVASCULAR FUNCTION IN FEMALES  
Jones, H. [United Kingdom]  
17:45 IS-PM03-3  
NEW INSIGHTS INTO STRUCTURAL AND FUNCTIONAL ADAPTATION OF SKIN MICROVESSELS IN HUMANS  
Green, D. [Australia]

### IS-EX01

#### Panorama Hall

##### ECSS-ACSM Exchange symposium: Sport eligibility and classification in the paralympic games

- Chair(s):  
Meeusen, R. [Belgium]  
IS-EX01-1  
ECSS-ACSM EXCHANGE LECTURE: WHO IS ELIGIBLE FOR THE PARALYMPIC GAMES AND WHY ARE THERE SO MANY CLASSES?  
Thompson, W. [United States]

### IS-EX01-2

THE IPC CLASSIFICATION CODE AND POSITION STAND ON THE SCIENTIFIC PRINCIPLES OF ATHLETE CLASSIFICATION  
Vanlandewijck, Y. [Belgium]

### OP-PM22

#### South Hall 1A

##### Respiration / Pulmonary

- Chair(s):  
Sheel, B. [Canada]  
Cogo, A. [Italy]  
16:45 OP-PM22-1  
SYSTEMIC BUT NOT LOCAL REHYDRATION RESTORES DEHYDRATION-INDUCED ALTERATIONS IN LUNG FUNCTION IN HEALTHY ADULTS  
Marshall, H. et al [United Kingdom]  
17:00 OP-PM22-2  
EFFECT OF EXPIRATORY LOADED BREATHING DURING MODERATE EXERCISE ON INTERCOSTAL MUSCLE OXYGENATION  
Bretonneau, Q. et al [France]  
17:15 OP-PM22-3  
BREATHING RESISTANCE IN AUTOMATED METABOLIC SYSTEMS AND EFFECTS ON OXYGEN UPTAKE AND PULMONARY VENTILATION IN ELITE ATHLETES  
Rosdahl, H. et al [Sweden]  
17:30 OP-PM22-4  
RESPIRATORY MUSCLE ENDURANCE IN ADULTS WITH CYSTIC FIBROSIS MEASURED BY INSPIRATORY RESISTIVE AND ISOCAPNIC HYPERPNEA TESTS  
Gruet, M. et al [France]  
17:45 OP-PM22-5  
MODELLING THE SLOW COMPONENT: THE EFFECT OF STARTING VALUES ON THE RESULTING PARAMETER ESTIMATES  
Draper, S. [United Kingdom]

### 18:00

PHYSIOLOGICAL ASSESSMENT OF DIFFERENT SAILING TECHNIQUES IN YOUNG ELITE WINDSURFERS  
Roberto, S. et al [Italy]

### OP-PM21

#### South Hall 1B

##### Gender

- Chair(s):  
Tiidus, P. [Canada]  
Pfister, G. [Denmark]  
16:45 OP-PM21-1  
THE EFFECTS OF SEX DIFFERENCES ON THERMOREGULATORY RESPONSES TO ICE SLURRY INGESTION  
Iwata, R. et al [Japan]  
17:00 OP-PM21-2  
LOW FERRITIN STATUS AND HEPICIDIN RESPONSE TO EXERCISE IN FEMALE ATHLETES  
Alfaro-Magallanes, V.M. et al [Spain]  
17:15 OP-PM21-3  
SEX DIFFERENCES IN MUSCLE FUNCTION AND MYOCYLLULAR RESPONSE TO A STRENUOUS MILITARY FIELD EXERCISE  
Lander, E. et al [Norway]  
17:30 OP-PM21-4  
DO ADOLESCENTS PERCEIVED PARENTAL SUPPORT ARE DIFFERENT BY GENDER TO PARTICIPATE IN REGULAR SPORT?  
Lagoa, M.J. et al [Portugal]

### OP-PM22-6

### OP-BN11

#### South Hall 2A

##### Biomechanics: Running

- Chair(s):  
Salo, A. [Finland]  
Nicol, C. [France]  
16:45 OP-BN11-1  
THE EFFECT OF STRENGTH TRAINING ON DISTANCE RUNNING MECHANICS  
Trowell, D. [Australia]  
17:00 OP-BN11-2  
EFFECT OF RUNNING-INDUCED FATIGUE ON LOWER LIMB KINEMATICS AND KINETICS DURING A SIDE CUTTING MANOEUVRE IN MALES AND FEMALES  
Oxendale, C.L. et al [United Kingdom]  
17:15 OP-BN11-3  
IMPACT ACCELERATIONS IN RECREATIONAL RUNNERS WITH AND WITHOUT A HISTORY OF INJURY.  
Burke, A. et al [Ireland]  
17:30 OP-BN11-4  
EFFECTS OF SHORT AND LONG COMPRESSION STOCKINGS ON IMPACT ACCELERATIONS DURING AN INTENSE RUN ON TREADMILL.  
Gil-Calvo, M. et al [Spain]  
17:45 OP-BN11-5  
MUSCLE MORPHOLOGY AND STRENGTH DETERMINANTS OF ELITE SPRINT RUNNING PERFORMANCE  
Miller, R. et al [United Kingdom]  
18:00 OP-BN11-6  
DIFFERENCES IN HORIZONTAL AND VERTICAL FORCE-VELOCITY-POWER PROFILE BETWEEN FEMALES OF 100-M SPRINTERS AND 100-M HURDLES.  
Paradisi, G. et al [Greece]

### OP-BN12

#### South Hall 2B

##### Neuromuscular fatigue I

- Chair(s):  
Bogdanis, G. [Greece]  
Angius, L. [United Kingdom]  
16:45 OP-BN12-1  
INDIVIDUAL ANALYSIS OF CENTRAL AND PERIPHERAL FATIGUE INTERACTIONS ACROSS DIFFERENT MUSCLE GROUPS  
CHARTOGNE, M. et al [France]  
17:00 OP-BN12-2  
CRITICAL PERIPHERAL FATIGUE THRESHOLDS AMONG DIFFERENT FORCE-VELOCITY CONDITIONS: AN INDIVIDUAL-BASED APPROACH TO BETTER UNDERSTAND THE FATIGUE ETIOLOGY  
MOREL, B. et al [France]  
17:15 OP-BN12-3  
CHANGES IN MUSCLE MEMBRANE EXCITABILITY DURING FATIGUING CONTRACTIONS: GROWING EVIDENCE OF THE NEED OF A SEPARATE ANALYSIS OF THE FIRST AND SECOND M-WAVE PHASES  
Rodriguez-Falces, J. et al [Spain]  
17:30 OP-BN12-4  
EFFECT OF MUSCLE-TENDON UNIT LENGTH ON DIFFERENCE IN NEUROMUSCULAR FATIGUE BETWEEN BOYS AND MEN  
PIPONNIER, E. et al [France]  
17:45 OP-BN12-5  
THE NEUROMUSCULAR FATIGUE INDUCED BY A SIMULATED MIXED MARTIAL ART FIGHT  
Giboin, L.S. et al [Germany]

# Oral & Invited Presentations

## IS-SP01

### North Hall

#### From ankle sprain to chronic ankle instability ...And how to avoid it - Sponsored by Adidas [Clinical track]

Chair(s):  
Gollhofer, A. [Germany]

IS-SP01-1

A "FATAL CAREER": DEVELOPMENT OF CHRONIC ANKLE INSTABILITY IN SPORTS – THE BIOMECHANICAL PERSPECTIVE

Gehring, D. [Germany]

IS-SP01-2

PREVENTION OF PRIMARY AND SECONDARY ANKLE SPRAINS – THE PHYSIOTHERAPEUTIC PERSPECTIVE

Delahunt, E. [Ireland]

IS-SP01-3

CLINICAL ASPECTS OF ACUTE AND RECURRENT ANKLE SPRAINS – THE ORTHOPAEDIC PERSPECTIVE

Lohrer, H. [Germany]

## OP-BN13

### Club A

#### Sport technology I

Chair(s):  
Hettinga, F. [United Kingdom]  
Madeleine, P. [Denmark]

16:45 OP-BN13-1  
HEAD IMPACT TELEMETRY IN NON-HELMETED COLLISION SPORTS: TOWARDS SETTING MINIMUM REPORTING STANDARDS

Williams, E.M.P. et al [United Kingdom]

17:00 OP-BN13-2  
IMPROVED NONLINEAR SPORTS PERFORMANCE DUE TO ALTERNATIVE SHOE CLOSURE BASED ON ADJUSTABLE TENSION LACING

Pryhoda, M. et al [United States]

17:15 OP-BN13-3  
PACING RELIABILITY AND ACCURACY USING PACING AIDS COMPARED TO SELF-PACED SWIMMING

McGibbon, K.E. et al [Australia]

17:30 OP-BN13-4  
ESTIMATION OF GROUND REACTION FORCE UTILIZING AN IMU PLACED ON DIFFERENT LOCATIONS OF THE BODY DURING VERTICAL JUMPING

McBride, J.M. et al [United States]

17:45 OP-BN13-5  
DOES ACCELEROMETER MEASURE MUSCLE VIBRATIONS?

Trama, R. et al [France]

## OP-MI08

### Club E

#### Ageing I

Chair(s):  
Verdijk, L. [Netherlands]  
Esser, K. [United States]

16:45 OP-MI08-1  
THE EFFECT OF TWO DIFFERENT FREQUENCIES AND TYPES OF CONCURRENT STRENGTH AND AEROBIC TRAINING PROGRAMS ON PHYSICAL PERFORMANCE IN OLDER ADULTS

Oreská, L. et al [Slovakia]

17:00 OP-MI08-2  
THE ACUTE EFFECTS OF DIFFERENT MODES OF SPRINT INTERVAL TRAINING IN OLDER ADULTS

Yasar, Z. et al [United Kingdom]

17:15 OP-MI08-3  
INFLUENCE OF INERTIAL RESISTANCE LOW ROW EXERCISE ON PHYSICAL ABILITIES AMONG OLDER ADULT WOMEN

Spudic, D. et al [Slovenia]

17:30 OP-MI08-4  
EFFECTS OF SEATED ISOKINETIC ECCENTRIC TRAINING AND DETRAINING ON MOBILITY, BALANCE, STRENGTH, MUSCLE SIZE AND ARCHITECTURE IN OLDER ADULTS

Kay, A.D. et al [United Kingdom]

17:45 OP-MI08-5  
EFFECT OF A 12-WEEK MICT, HIIT OR HIIT + RT PROGRAM ON BODY COMPOSITION IN POST-MENOPAUSAL OVERWEIGHT/OBESE WOMEN AND IMPLICATIONS FOR FAT OXIDATION RATE DURING MODERATE-INTENSITY EXERCISE

DUPUIT, M. [France]

18:00 OP-MI08-6  
THE EFFECT OF VITAMIN D SUPPLEMENTATION AND NORDIC WALKING TRAINING ON MUSCLE STRENGTH AND POSTURAL CONTROL IN ELDERLY POPULATION

Mieszkowski, J. et al [Poland]

## OP-BN14

### Club H

#### Motor learning and motor control: Talent - Skills - Performance

Chair(s):  
Duncan, M. [United Kingdom]  
Davids, K. [United Kingdom]

16:45 OP-BN14-1  
NEURAL PROCESSES DETERMINING THE VISUOMOTOR REACTION SPEED OF ELITE YOUTH TABLE TENNIS ATHLETES

Hülsdünker, T. et al [Germany]

17:00 OP-BN14-2  
INVESTIGATING THE ALTERED RESTING-STATE FUNCTIONAL CONNECTIVITY IN BASEBALL PLAYERS WITH DIFFERENT SKILL LEVELS

Chang, C.Y. et al [Taiwan]

17:15 OP-BN14-3  
SEEKING THE OPTIMAL TRAINING LOAD IN VARIABILITY FOR LEARNING A BALANCE TASK. A RANDOMIZED CONTROLLED TRIAL

BARBADO, D. et al [Spain]

17:30 OP-BN14-4  
CHANGES IN MOTOR SYNERGIES DURING LEARNING A DISCRETE TASK

Caballero, C. et al [Spain]

17:45 OP-BN14-5  
NOVEL TOOLS FOR THE RAPID ONLINE DATA ACQUISITION OF TMS CORTICOSPINAL EXCITABILITY

Grey, M.J. et al [United Kingdom]

18:00 OP-BN14-6  
BRAIN REGIONS RELATED TO ANTICIPATION SKILL FOR FEINT MOVEMENT IN SPORTS SETTING: AN FMRI STUDY

Kawata, Y. et al [Japan]

## OP-SH12

### Terrace 2A

#### Psychology: Motivation

Chair(s):  
Lemyre, P. [Norway]  
Cobley, S. [Australia]

16:45 OP-SH12-1  
THE TEMPORAL ORDERING OF MOTIVATION AND SELF-CONTROL: CROSS-LAGGED EFFECTS MODELS

Jordalen, G. et al [Norway]

17:00 OP-SH12-2  
THE PHYS-CAN STUDY "FINDING MY OWN MOTIVATION" - A MIXED METHODS STUDY OF EXERCISE AND BEHAVIOUR CHANGE SUPPORT DURING ONCOLOGICAL TREATMENT.

Mazzoni, A.S. et al [Sweden]

17:15 OP-SH12-3  
UNDERSTANDING SPORT COMMITMENT AMONG ADOLESCENT ATHLETES: THE ROLE OF A SELF-DETERMINATION PERSPECTIVE

Berki, T. et al [Hungary]

17:30 OP-SH12-4  
DEFINING THE MOTIVATIONAL STRUCTURE OF HUNGARIAN MALE AND FEMALE ATHLETES IN TEAM SPORTS WITH THE NEW H-SMS QUESTIONNAIRE

Paic, R. et al [Hungary]

17:45 OP-SH12-5  
EXPERIENCING REDUCED PERFORMANCE DUE TO INJURY AND THE IMPLICATIONS FOR BASIC PSYCHOLOGICAL NEED SATISFACTION FOR YOUTH ELITE NORWEGIAN HANDBALL PLAYERS

Gjesdal, S. et al [Norway]

18:00 OP-SH12-6  
HARMONIOUS PASSION AND SELF-ORIENTED PERFECTIONISM ARE RELATED TO WELL-BEING IN ELITE TRAMPOLINISTS

Schiphof-Godart, L. et al [Netherlands]

## OP-SH13

### Terrace 2B

#### Ethical behaviour in sport

Chair(s):  
Elbe, A. [Germany]  
Anderson, E. [United Kingdom]

16:45 OP-SH13-1

MATCH-FIXING AS THREAT TO SPORT

Mravec, L. [Czech Republic]

17:00 OP-SH13-2

CHANGES IN PERFORMANCE RESULTS OF RUSSIAN FEMALE MIDDLE- AND LONG-DISTANCE RUNNERS BEFORE AND AFTER AN IMPLEMENTATION OF ATHLETE BIOLOGICAL PASSPORT.

Iljukov, S. [Finland]

17:15 OP-SH13-3

IS ANTI-DOPING A FAILURE? THE CASE OF PROFESSIONAL CYCLING

Fabien, O. et al [Switzerland]

17:30 OP-SH13-4

USE OF ILLICIT DRUGS BY YOUTH ATHLETES

Oliveira, A. et al [Brazil]

17:45 OP-SH13-5

INACTION AS A FORM OF ACTION: THE BRITISH GOVERNMENT RESPONSES TO THE CALL TO BAN TACKLING IN SCHOOLS' RUGBY

White, A.J. [United Kingdom]



# Thursday, July 4

18:30 - 20:00

IS-PM04

## Congress Hall

**Exercise-induced muscle damage: What is it, how is it detected, and why is it induced?**

- Chair(s):  
Nosaka, K. [Australia]  
18:30 IS-PM04-1  
HISTOLOGICAL CHANGES IN MUSCLE FIBRES AND CONNECTIVE TISSUE AFTER ECCENTRIC EXERCISE: WHERE IS THE BORDER BETWEEN TOLERABLE DAMAGE AND RHABDOMYOLYSIS?  
Raastad, T. [Norway]  
19:00 IS-PM04-2  
NEURAL INHIBITION VERSUS DAMAGE EFFECTS: HOW CAN THEY BE DISTINGUISHED?  
Nicol, C. [France]  
19:30 IS-PM04-3  
SYMPTOMS AND MARKERS OF MUSCLE DAMAGE: WHAT CAUSES MUSCLE DAMAGE AND WHAT DETERMINES THE MAGNITUDE OF MUSCLE DAMAGE?  
Nosaka, K. [Australia]

OP-PM23

## South Hall 1A

**Cardiac function and cardiovascular diseases**

- Chair(s):  
Pratali, L. [Italy]  
George, K. [United Kingdom]  
18:30 OP-PM23-1  
TOUR DE FRANCE CIRCUIT : EFFECTS ON CARDIAC FUNCTION IN WELL-TRAINED FEMALE CYCLISTS  
Le Douairon Lahaye, S. [France]  
18:45 OP-PM23-2  
THE RELATIVE IMPORTANCE OF PHYSICAL FRAILTY AND CARDIOVASCULAR FUNCTION AS EXERCISE-MODIFIABLE PREDICTORS OF FALLS IN HAEMODIALYSIS PATIENTS  
Zanotto, T. et al [United Kingdom]  
19:00 OP-PM23-3  
VENTILATORY EFFICIENCY IS A STRONGER PREDICTOR OF MORTALITY THAN PEAK OXYGEN UPTAKE AND BMI IN HEART FAILURE WITH REDUCED EJECTION FRACTION (HFREF)  
Maiorana, A. et al [Australia]  
19:15 OP-PM23-4  
GAIT PATTERN AND MUSCLE OXYGEN SATURATION CHANGES ACT SYNERGISTICALLY TO IMPROVE EXERCISE TOLERANCE AFTER MULTIMODAL TRAINING IN PATIENTS WITH SYMPTOMATIC LOWER EXTREMITY ARTERY DISEASE  
Lanzi, S. et al [Switzerland]  
19:30 OP-PM23-5  
THE EFFECT OF HIGH INTENSITY INTERVAL TRAINING ON CARDIAC AUTONOMIC ACTIVITY AFTER 4 WEEKS OF SUPERVISED CARDIAC REHABILITATION, AND 6 MONTHS OF HOME-BASED EXERCISE  
Taylor, J.L. et al [Australia]  
19:45 OP-PM23-6  
ENTRANCE AND EXIT EXERCISE STRESS TESTS IN INPATIENT CARDIAC REHABILITATION: WHAT DO THE NUMBERS TELL?  
Birklbauer, A. et al [Austria]

OP-PM24

## South Hall 1B

**Recovery from sports and exercise**

- Chair(s):  
Raschner, C. [Austria]  
Meyer, T. [Germany]  
18:30 OP-PM24-1  
RECOVERY EFFECT OF A LOWER LIMB COMPRESSIVE GARMENT AFTER A TRAIL RUNNING COMPETITION ON BIOCHEMICAL MARKERS: A PRELIMINARY STUDY.  
Aparicio, I. et al [Spain]  
18:45 OP-PM24-2  
CRYOTHERAPY AS A RECOVERY TECHNIQUE DURING CONSECUTIVE DAYS OF SIMULATED TENNIS MATCHES: COMPARISON OF WBC, CWI, PASSIVE RECOVERY  
Poignard, M. [France]  
19:00 OP-PM24-3  
INTRA-INDIVIDUAL VARIABILITY IN SLEEP AND NOCTURNAL HEART RATE VARIABILITY OF ELITE FEMALE SOCCER PLAYERS DURING AN INTERNATIONAL TOURNAMENT  
Costa, J.A. et al [Portugal]  
19:15 OP-PM24-4  
THE STUDY OF DYNAMIC CHANGES IN FUNCTIONAL STATE OF RUSSIAN NATIONAL TEAM ATHLETES AFTER TRANSFER TO EAST REGION  
Zholinsky, A. et al [Russia]  
19:30 OP-PM24-5  
PARTIAL-BODY CRYOTHERAPY AND COLD-WATER IMMERSION AFTER MUSCLE-DAMAGE IN FEMALES: A RANDOMIZED CONTROLLED TRIAL  
Hohenauer, E. et al [Switzerland]

OP-BN15

## South Hall 2A

**Biomechanics: Winter sports**

- Chair(s):  
Patricia, D. [Canada]  
Lindinger, S. [Sweden]  
18:30 OP-BN15-1  
VALIDATION OF JUMP SIMULATION INPUT PARAMETERS FOR SLOPE STYLE AND BIG AIR: SNOW FRICTION AND AIR DRAG DURING IN-RUN  
Wolfsperger, F. et al [Norway]  
18:45 OP-BN15-2  
ANKLE JOINT MOMENT-ANGLE RELATIONSHIP IN THE FRONTAL PLANE DURING THE PUSH PHASE OF ELITE BOBSLEIGH  
Zedler, M. et al [Germany]  
19:00 OP-BN15-3  
AERODYNAMICS SIMULATION FRAMEWORK FOR SKI-JUMPING TAKE-OFF AND ITS APPLICATION TO VARIOUS JUMPERS  
Kajimoto, H. et al [Japan]  
19:15 OP-BN15-4  
SNOWBOARD GIANT SLALOM: 3D LOWER LIMB JOINT KINEMATICS USING WEARABLE INERTIAL SENSORS  
Fantozzi, S. et al [Italy]  
19:30 OP-BN15-5  
MECHANICAL DETERMINANTS OF FORWARD SKATING SPRINT AND THEIR RELATIONSHIP WITH OFF-ICE MUSCULAR CAPACITIES  
PEREZ, J. et al [France]  
19:45 OP-BN15-6  
MOTOR SKILLS SPECIFIC TO FIELD ALPINE SKI RACING PHYSIOLOGICAL DEMANDS  
Bottollier, V. [France]

OP-BN16

## South Hall 2B

**Motor unit function II**

- Chair(s):  
Behm, D. [Canada]  
Zijdwind, I. [Netherlands]  
18:30 OP-BN16-1  
A SINGLE SESSION OF NEUROMUSCULAR ELECTRICALLY-EVOKED ISOMETRIC CONTRACTIONS GENERATES SUPERFICIAL ACTIVATION OF KNEE EXTENSOR MUSCLES AND LOCALIZED ALTERATIONS  
Fouré, A. et al [France]  
18:45 OP-BN16-2  
NEUROMUSCULAR- AND TEMPERATURE-DEPENDENT FACTORS INFLUENCING MUSCLE FORCE POTENTIATION AFTER WARM-UPS WITH DIFFERENT FORCE-VELOCITY CHARACTERISTICS  
Blazevich, A.J. et al [Australia]  
19:00 OP-BN16-3  
MUSCLE-SPECIFIC MODULATION OF MOTOR EVOKED POTENTIALS AND SPINAL REFLEXES OF AGONIST AND ANTAGONIST MUSCLES DURING VOLUNTARY CONTRACTION  
Saito, A. et al [Japan]  
19:15 OP-BN16-4  
ACUTE ADAPTATIONS IN SPINAL AND CORTICOSPINAL EXCITABILITY FOLLOWING VISUO-MOTOR SKILL LEARNING  
Henry, M. et al [Belgium]  
19:30 OP-BN16-5  
EFFECT OF ANODAL TRANSCRANIAL DIRECT CURRENT STIMULATION ON VOLUNTARY ACTIVATION LEVELS AND MAXIMAL VOLUNTARY CONTRACTIONS IN THE QUADRICEPS MUSCLE  
Kristiansen, M. et al [Denmark]  
19:45 OP-BN16-6  
ENHANCED AVAILABILITY OF SEROTONIN EXACERBATES CENTRAL FATIGUE DURING MAXIMAL VOLUNTARY CONTRACTIONS  
Kavanagh, J.J. et al [Australia]

# Oral & Invited Presentations

## IS-BN03

### North Hall

#### Brain stimulation: An emerging phenomenon in sport and exercise

Chair(s):

Mauger, A. [United Kingdom]

18:30 IS-BN03-1

ENHANCING PHYSICAL PERFORMANCE WITH TRANSCRANIAL DIRECT CURRENT STIMULATION: STATE OF THE ART AND FUTURE PERSPECTIVES.

Angius, L. [United Kingdom]

19:00 IS-BN03-2

BRAIN STIMULATION: AN EMERGING PHENOMENON IN SPORT AND EXERCISE

Hendy, A. [Australia]

19:30 IS-BN03-3

NEURODOPING: GAINING THE EDGE THROUGH NON-INVASIVE BRAIN STIMULATION

Mauger, A. [United Kingdom]

## OP-PM43

### Club A

#### Nutrition: Supplements and dietary regimens

Chair(s):

Morales-Álamo, D. [Spain]

Breen, L. [United Kingdom]

18:30 OP-PM43-1

IS TAKING SULFORAPHANE EFFECTIVE FOR ECCENTRIC EXERCISE-INDUCED MUSCLE SORENESS AND MUSCLE DAMAGE IN HUMANS?

Miura, I. et al [Japan]

18:45 OP-PM43-2

MAKING WEIGHT COULD BE SAFE AND EFFECTIVE

Cannataro, R. et al [Italy]

19:00 OP-PM43-3

TIME-RESTRICTED FEEDING, A ZEITGEBER FOR MUSCLE RESPONSE, LIPID PROFILE, AND MUSCLE

DAMAGE-RELATED BIOMARKERS IN YOUNG AND OLDER ADULT MEN

Sellami, M. [Tunisia]

19:15 OP-PM43-4

ASSOCIATIONS BETWEEN NUTRITION AND BODY COMPOSITION WITH CARDIOVASCULAR DISEASE RISK FACTORS AND PRO-INFLAMMATORY BIOMARKERS DURING A 6-MONTH MILITARY DEPLOYMENT

Nykänen, T. et al [Finland]

19:30 OP-PM43-5

METABOLIC AND HORMONAL RESPONSES TO SHORT-TERM KETOGENIC DIET AND EXERCISE

Cho, W. et al [Korea, South]

19:45 OP-PM43-6

THE RELATIONSHIP BETWEEN DIETARY INTAKE, MEAL TIMING AND SLEEP IN ELITE AUSTRALIAN FOOTBALL PLAYERS

Condo, D. et al [Australia]

## OP-PM46

### Club E

#### Cardiovascular physiology I

Chair(s):

Giardina, M. [Italy]

18:30 OP-PM46-1

EFFECT OF SURGICAL REVASCLARISATION ON LEG MUSCLE MICROVASCULAR PERFUSION IN PATIENTS WITH PERIPHERAL ARTERIAL DISEASE

Askew, C.D. et al [Australia]

18:45 OP-PM46-2

THE INFLUENCE OF MATURATIONAL STATUS ON INTRA-CRANIAL VELOCITY AND NEUROVASCULAR COUPLING IN PRE AND POST-PUBERTAL BOYS

Talbot, J.S. et al [United Kingdom]

19:00 OP-PM46-3

INVESTIGATING THE POTENTIAL FUNCTIONAL EFFECTS OF POLYMORPHISMS WITHIN THE PROTEOGLYCAN AND ANGIOGENESIS GENES IN A GENETIC SUSCEPTIBILITY MODEL FOR ACHILLES TENDINOPATHY

Rahim, M. et al [South Africa]

19:15

OP-PM46-4

CHANGES IN P-WAVE AND PQ-INTERVAL OF THE ELECTROCARDIOGRAM IN MALE MIDDLE-LONG RUNNERS OVER A THREE-YEAR TRAINING PERIOD\*

Nie, J. et al [Macau]

19:30 OP-PM46-5

SKELETAL MUSCLE MICROVASCULAR BLOOD FLOW AND POSTPRANDIAL GLYCAEMIC RESPONSES TO A HIGH-GLUCOSE MIXED MEAL INGESTED 3 HOURS AFTER EXERCISE.

Parker, L. et al [Australia]

19:45 OP-PM46-6

POST-EXERCISE MALONDIALDEHYDE ELEVATION AND EXERCISE INTENSITY ARE ASSOCIATED WITH TROPONIN ELEVATION: THE INDONESIAN NORTH COAST AND TOUR DE BOROBUDUR 2017 TROPONIN STUDY

Azam, M. et al [Indonesia]

## OP-SH15

### Club H

#### Sociology: Children and gender

Chair(s):

Dikemüller, R. [Austria]

Radmann, A. [Norway]

18:30 OP-SH15-1

TOO YOUNG FOR SPORT: AN ANALYSIS OF ORGANIZED SPORT ACTIVITIES FOR YOUNG CHILDREN IN NORWAY AND SWEDEN

Solenes, O. et al [Norway]

18:45 OP-SH15-2

YOUNGER CHILDREN AND OLDER HORSES, EQUESTRIAN SPORT FOR PRE-SCHOOL CHILDREN

Rosén, A. et al [Sweden]

19:00 OP-SH15-3

VALIDATION OF THREE WIDELY USED QUESTIONNAIRE ITEMS INTENDED TO ASSESS ACTIVE COMMUTING AMONG ADOLESCENTS

Malnes, L. et al [Norway]

## OP-SH14

### Terrace 2A

#### Psychology: Health and wellbeing

Chair(s):

Knisel, E. [Germany]

Brandstaetter, R. [Austria]

18:30 OP-SH14-1

THE ADAPTATION AND DEVELOPMENT OF STUDENT-ATHLETES: A PERSPECTIVE FROM THE CONCEPT OF MEANING

YANG, C. et al [Taiwan]

18:45 OP-SH14-2

SUBCLINICAL DISORDERED EATING AND BODY DISSATISFACTION IN NORMAL WEIGHT CHILDREN - THE ROLE OF SPORTS ACTIVITY

Grimminger-Seidensticker, E. [Germany]

19:00 OP-SH14-3

IMPACT OF THE TALENT DEVELOPMENT ENVIRONMENT ON THE WELLBEING AND BURNOUT OF CARIBBEAN YOUTH TRACK AND FIELD ATHLETES

Thomas, C.E. et al [Australia]

19:15 OP-SH14-4

THE IMPACT OF THE MENSTRUAL CYCLE ON PERFORMANCE: ELITE ATHLETES' PERCEPTIONS

Forrest, L.J. et al [United Kingdom]

19:30 OP-SH14-5

OPERATION OF SPORTS FACILITIES. IS THERE A HEALTH-PROMOTION FUNCTION? 25 CASES FROM HUNGARY AND THE WORLD

Gyömörei, T. et al [Hungary]

## IS-SH04

### Terrace 2B

#### Motivation in physical education: A focus on teachers role through self-determination theory

Chair(s):

Coteron, J. [Spain]

18:30 IS-SH04-1

AUTONOMY-SUPPORTIVE TEACHERS IN PHYSICAL EDUCATION. UNDERSTANDING DISPOSITIONAL AND CONTEXTUAL DETERMINANTS.

Coteron, J. [Spain]

19:00 IS-SH04-2

A MULTILEVEL APPROACH TO UNDERSTAND STUDENTS' MOTIVATION TAKING INTO ACCOUNT TEACHERS' ANTECEDENTS

Franco, E. [Spain]

19:30 IS-SH04-3

IMPORTANCE AND FEASIBILITY PERCEIVED IN MOTIVATIONAL STRATEGIES BY PHYSICAL EDUCATION TEACHERS

Hess, C.M. [Brazil]

## Friday, July 5

08:00 - 09:30

### IS-PM06

#### Congress Hall

**The lungs during exercise: often overlooked, often misunderstood [Clinical track]**

Chair(s):

Kippelen, P. [United Kingdom]

08:00 IS-PM06-1  
RESPIRATORY RESPONSES TO EXERCISE IN ATHLETES WITH SPINAL CORD INJURY  
Romer, L.M. [United Kingdom]

08:30 IS-PM06-2  
SEX DIFFERENCES IN THE VENTILATORY RESPONSE TO EXERCISE  
Sheel, A.W. [Canada]

09:00 IS-PM06-3  
ASTHMA IN ELITE ATHLETES: CAUSES AND CONSEQUENCES  
Kippelen, P. [United Kingdom]

### OP-PM26

#### Panorama Hall

##### High intensity interval training

Chair(s):

Laaksonen, M. [Sweden]

MacDonald, M. [Canada]

08:00 OP-PM26-1  
EFFECTS OF SCHOOL-BASED HIGH-INTENSITY INTERMITTENT EXERCISE ON HEART RATE VARIABILITY AND ARTERIAL COMPLIANCE  
Ketelhut, S. et al [Germany]

08:15 OP-PM26-2  
CARDIORRESPIRATORY RESPONSE COMPARISON BETWEEN RESISTED AND ENDURANCE HIIT PROTOCOLS.  
Fernandez-Elias, V.E. et al [Spain]

08:30 OP-PM26-3  
THE EFFECT OF ISCHEMIC PRECONDITIONING ON CENTRAL MOTOR OUTPUT AND MUSCLE CONTRACTILITY AFTER A REPEATED SPRINT EXERCISE  
Krogsh, M. et al [Denmark]

08:45 OP-PM26-4  
EFFECTS OF TRAINING INTENSITY ON THE VO2 AND MUSCLE DEOXYGENATION KINETICS  
Reis, J.F. et al [Portugal]

09:00 OP-PM26-5  
COMPARISON BETWEEN SKELETAL MUSCLE ADAPTATIONS TO FREE-RUNNING WHEEL AND HIGH-INTENSITY INTERVAL TRAINING  
Beleza, J. et al [Portugal]

09:15 OP-PM26-6  
FUNCTIONAL VS. RUNNING LOW-VOLUME HIIT: EFFECTS ON VO2MAX AND MUSCULAR ENDURANCE  
Menz, V. et al [Austria]

### OP-PM25

#### South Hall 1A

##### Metabolic syndrome and diabetes II

Chair(s):

Merkus, D. [Netherlands]

Rowlands, D. [New Zealand]

08:00 OP-PM25-1  
HEMODYNAMIC ABNORMALITIES AND CEREBRAL OXYGENATION DURING CONTEMPORARY MENTAL TASK AND METABOREFLEX ACTIVATION IN PATIENTS WITH METABOLIC SYNDROME  
Crisafulli, A. et al [Italy]

08:15 OP-PM25-2  
EFFICACY OF COMBINED AEROBIC AND RESISTANCE HIGH-INTENSITY INTERVAL TRAINING FOR IMPROVING CARDIORRESPIRATORY FITNESS AND MUSCULAR STRENGTH IN ADULTS WITH TYPE 2 DIABETES: A

RANDOMIZED CONTROLLED TRIAL  
Cox, E.R. et al [Australia]

08:30 OP-PM25-3  
EXTRA SCHOOL BASED PHYSICAL EDUCATION REDUCES RISK OF DEVELOPMENT OF METABOLIC SYNDROME IN 9-10 YEAR OLD CHILDREN  
Reihmane, D. et al [Latvia]

### OP-PM29

#### South Hall 1B

##### Team sports: Soccer

Chair(s):

Minahan, C. [Australia]

Meyer, T. [Germany]

08:00 OP-PM29-1  
ANALYSIS OF GOAL SCORING OPPORTUNITIES FROM ORGANIZED OFFENSIVE PATTERNS IN THE FIFA WORLD CUP RUSSIA 2018  
MITROTASIOS, M. et al [Greece]

08:15 OP-PM29-2  
WORK RATE PATTERNS DURING THE 2010, 2014 AND 2018 FIFA WORLD CUP: EFFECT OF SUBSTITUTIONS AND EXTRA-TIME  
Rago, V. [Portugal]

08:30 OP-PM29-3  
COMPARISON OF IN-SEASON EXTERNAL AND INTERNAL LOAD ACROSS A PROFESSIONAL JUNIOR SOCCER ACADEMY.  
JULIAN, R. et al [Germany]

08:45 OP-PM29-4  
LOCOMOTOR CHARACTERISTICS, INTERNAL LOAD AND TECHNICAL ATTRIBUTES DURING BIOLOGICAL VS. CHRONOLOGICAL AGE BANDED SMALL-SIDED GAMES IN ELITE YOUTH SOCCER PLAYERS  
Smith, J.A. et al [United Kingdom]

09:00 OP-PM29-5  
THE EFFECT OF MATCH STANDARD ON THE POST-MATCH PERCEIVED EXERTION AND WELLNESS OF PROFESSIONAL SOCCER REFEREES  
Figueiredo, P. et al [Portugal]

09:15 OP-PM29-6  
RELATIONSHIPS BETWEEN DIFFERENT ACUTE:CHRONIC WORK LOAD RATIO CALCULATIONS AND INJURIES IN ELITE SOCCER PLAYERS  
Gualtieri, A. et al [Italy]

### OP-BN17

#### South Hall 2A

##### Sports physiotherapy: Foot and ankle

Chair(s):

Eils, E. [Germany]

Flück, M. [Switzerland]

08:00 OP-BN17-1  
EFFECT OF 12-WEEK EVERTOR AND INVERTOR STRENGTH TRAINING ON MEDIAL AND LATERAL INCLINED WALK  
Bavdek, R. et al [Slovenia]

08:15 OP-BN17-2  
EFFECT OF FOOTWEAR ON ANKLE PROPRIOCEPTION TESTED DURING LANDING IN PROFESSIONAL BADMINTON PLAYERS AND PARTICIPANTS WITHOUT SPECIFIC TRAINING EXPERIENCE  
Yu, R. et al [China]

08:30 OP-BN17-3  
CRITERIA-BASED RETURN TO SPORT DECISION-MAKING FOLLOWING LATERAL ANKLE SPRAIN INJURY: A SYSTEMATIC REVIEW AND NARRATIVE SYNTHESIS.  
Tassignon, B. et al [Belgium]

08:45 OP-BN17-4  
IS NEW PLANTAR FOOT INTRINSIC MUSCLE TRAINING MORE EFFECTIVE FOR THE MORPHOLOGY OF MEDIAL LONGITUDINAL ARCH AND MUSCLE STRENGTH?  
Tsao, T.L. et al [Taiwan]

09:00 OP-BN17-5  
PROGRESSIVE EXERCISE SERIES FOR PATIENTS WITH CHRONIC ANKLE INSTABILITY: A CASE CONTROL STUDY.  
Bossard, D.S. [Ireland]

09:15 OP-BN17-6  
LOWER EXTREMITY JOINT MOMENTS DURING THE ACCELERATION PHASE OF BEND SPRINTING  
Judson, L.J. et al [United Kingdom]

### OP-MI09

#### South Hall 2B

##### Team sports I

Chair(s):

Gabrys, T. [Czech Republic]

Impellizzeri, F. [Australia]

08:00 OP-MI09-1  
PHYSICAL, PERCEPTUAL AND MENTAL DEMANDS OF BASKETBALL SMALL-SIDED GAMES: INFLUENCE OF TACTICAL TASKS AND TRAINING REGIMES  
Sansone, P. et al [Italy]

08:15 OP-MI09-2  
EXTERNAL LOAD BETWEEN PLAYING POSITIONS AND QUARTERS IN COMPETITIVE ELITE BASKETBALL  
GARCIA, F. et al [Spain]

08:30 OP-MI09-3  
IS LANDING IMPACT ASSESSED IN BIOMECHANICAL-BASED LABORATORY TESTS FIT FOR PURPOSE?  
Moran, K. et al [Ireland]

08:45 OP-MI09-4  
BIOMECHANICAL ANALYSIS OF DISTANCE CONTROL IN VOLLEYBALL OVERHEAD PASS  
Ozawa, Y. et al [Japan]

09:00 OP-MI09-5  
VALIDITY AND RELIABILITY OF THE FITLIGHT TRAINER SYSTEM IN ESTIMATING LINEAR SPRINT TIME  
Conte, D. et al [Lithuania]

09:15 OP-MI09-6  
AGE RELATED DIFFERENCES IN ANTHROPOMETRIC AND PERFORMANCE OF YOUNG FOOTBALL PLAYERS  
Michaelides, M. et al [Cyprus]

# Oral & Invited Presentations

## IS-BN04

### North Hall

#### New insights on the control of voluntary actions derived from motor unit recordings

- Chair(s):  
Enoka, R. [United States]  
08:00 IS-BN04-1  
CHALLENGES ASSOCIATED WITH HIGH-DENSITY SURFACE EMG RECORDINGS  
Enoka, R.M. [United States]  
08:30 IS-BN04-2  
INFLUENCE OF RATE CODING ON THE CONTROL OF MUSCLE FORCE DURING FAST CONTRACTIONS  
Duchateau, J. [Belgium]  
09:00 IS-BN04-3  
CONSEQUENCES OF CHANGES IN MOTOR UNIT DISCHARGE CHARACTERISTICS AFTER SPINAL CORD INJURY  
Zijdwind, I. [Netherlands]

## OP-PM28

### Club A

#### Hypoxia I

- Chair(s):  
Pratali, L. [Italy]  
Mello, M. [Brazil]  
08:00 OP-PM28-1  
AEROBIC AND ANAEROBIC PERTURBATIONS INDUCED BY ACUTE NORMOBARIC HYPOXIA EXPOSURE IN TRAINED CYCLISTS  
Sousa, A. et al [Portugal]  
08:15 OP-PM28-2  
SLEEP AT HIGH ALTITUDE AND THE INFLUENCE ON STRESS AND RECOVERY  
Schäfer, H. et al [Germany]

- 08:30 OP-PM28-3  
EFFECTS OF "LIVING HIGH TRAINING LOW" ON MUSCLE GLYCOGEN CONTENT: A DOUBLE-BLIND PLACEBO-CONTROLLED STUDY  
Castiglia, M. [Brazil]  
08:45 OP-PM28-4  
CEREBRAL DEOXYGENATION DURING HYPOXIC EXERCISE AND POSSIBLE ASSOCIATION WITH ACUTE MOUNTAIN SICKNESS  
Manferdelli, G. et al [Italy]

## OP-PM27

### Club E

#### Sport injuries and orthopedics I

- Chair(s):  
Skorski, S. [Germany]  
Mukherjee, S. [Singapore]  
08:00 OP-PM27-1  
INJURIES IN NATIONAL TEAM DUTY: A 2-YEAR PROSPECTIVE FOLLOW-UP OF INJURIES OCCURRING IN NATIONAL TEAM FOOTBALL PLAYERS DURING THE OFFICIAL FIFA CALENDAR  
Brito, J. et al [Portugal]  
08:15 OP-PM27-2  
SEASON TO SEASON CHANGES IN INJURY BURDEN ARE RELATED TO CHANGES IN TEAM PERFORMANCE IN ELITE AUSTRALIAN FOOTBALL  
Hoffman, D. et al [Australia]  
08:30 OP-PM27-3  
CHANGES IN GLENOHUMERAL JOINT ISOKINETIC STRENGTH IN PROFESSIONAL RUGBY LEAGUE PLAYERS ACROSS A SEASON  
Haines, M. [United Kingdom]  
08:45 OP-PM27-4  
THE EFFECT OF SHOE CUSHIONING ON INJURY RISK IN RECREATIONAL RUNNERS: DOES BODY MASS MATTER?  
Malisoux, L. [Luxembourg]  
09:00 OP-PM27-5  
TIME TO CONCENTRATE? CONCENTRATION DISRUPTION AS A CONTRIBUTING FACTOR TO THE OCCURRENCE OF ACUTE INJURIES DURING ELITE

- FEMALE SOCCER GAMES.  
Verrelst, R. [Belgium]  
09:15 OP-PM27-6  
TRAINING LOAD CHARACTERISTICS IN THE CONTEXT OF INJURY AND ILLNESS RISK IDENTIFICATION IN ELITE YOUTH SKI RACING: A PROSPECTIVE STUDY  
Steidl-Müller, L. et al [Austria]

## OP-BN18

### Club H

#### Sports technology II

- Chair(s):  
Abt, G. [United Kingdom]  
Wong, D. [China]  
08:00 OP-BN18-1  
DEVELOPMENT OF AN AUTOMATIC ALPINE SKIING TURN DETECTION ALGORITHM BASED ON A SIMPLE SENSOR SETUP  
Martinez, A. et al [Austria]  
08:15 OP-BN18-2  
COMPARISON OF WEARABLE GPS DEVICES FOR DISTANCE AND SPEED ESTIMATION ACROSS DIFFERENT MOTION PATHS  
Raizaday, S. et al [India]  
08:30 OP-BN18-3  
COMPARISON OF THE WEARABLE TECHNOLOGY AND MEMS FOR MEASURING VERTICAL JUMP PERFORMANCE  
Gumus, H. et al [Turkey]  
08:45 OP-BN18-4  
NOVEL DEVICES CAN MEASURE JUMP-AND-REACH PERFORMANCE WITHOUT THE NEED FOR A REACH TARGET  
Brooks, E.R. et al [Australia]  
09:00 OP-BN18-5  
PERFORMANCE ANALYSIS USING WEARABLE ACCELERATION SENSOR AT YOUTH ELITE SOCCER PLAYERS IN JAPAN.  
Magome, T. et al [Japan]

- 09:15 OP-BN18-6  
CONTACT-FREE MEASUREMENT OF NOCTURNAL HEART RATE VARIABILITY BY BALLISTOCARDIOGRAPHY BASED EMFIT QS  
Vesterinen, V. et al [Finland]

## OP-SH16

### Terrace 2A

#### Psychology: Physical activity promotion

- Chair(s):  
tekin, m. [Turkey]  
Schmitz, K. [United States]  
08:00 OP-SH16-1  
PROMOTING PHYSICAL ACTIVITY AMONG OLDER ADULTS LIVING IN RURAL AREAS: ASSESSING EXPERIENCES OF AND BARRIERS FACED USING ACTIVITY TRACKERS  
Chang, C.H. et al [Taiwan]  
08:15 OP-SH16-2  
WILL THE USE OF FITNESS TRACKER IMPROVE OLDER ADULTS' SUBJECTIVE ASSESSMENT OF PHYSICAL ACTIVITY?  
Chow, H.W. et al [Taiwan]  
08:30 OP-SH16-3  
THE EFFECTS OF THE CAMPUS WALKING TRAIL APP ON PSYCHOLOGICAL WELLBEING AND PHYSICAL ACTIVITY LEVEL OF THE UNIVERSITY STUDENTS  
Leung, E.F.L. et al [Hong Kong]  
08:45 OP-SH16-4  
IN SEARCH OF KEY ATTRIBUTES OF PEER LEADERS FOR THE PROMOTION OF PHYSICAL ACTIVITY IN OLDER ADULTS  
Kritz, M. et al [Australia]  
09:00 OP-SH16-5  
DISTINCTION BETWEEN RESPONDERS AND NON-RESPONDERS IN ACTIVITIES OF DAILY LIVING DEPENDENT ON INTERVENTION-RELATED MOTOR AND COGNITIVE SKILLS  
Bezold, J. et al [Germany]  
09:15 OP-SH16-6  
THE PHYS-CAN STUDY: MEANINGFUL AND CHALLENGING - SUPERVISING PHYSICAL EXERCISE IN A

- NON-CLINICAL SETTING FOR PERSONS UNDERGOING CURATIVE ONCOLOGICAL TREATMENT  
Henriksson, A. et al [Sweden]

## IS-SH05

### Terrace 2B

#### The role of sport history in the scientific community - Aims, opportunities, challenges

- Chair(s):  
Heck, S. [Luxembourg]  
08:00 IS-SH05-1  
SPORT HISTORY IN THE UNITED STATES: STATUS, FUTURE DIRECTION, AND INFLUENCE  
Gems, G. [United States]  
08:30 IS-SH05-2  
SPORT HISTORY IN EUROPE: DISPENSABLE OR ESSENTIAL FOR THE PE TEACHER EDUCATION?  
Heck, S. [Germany]  
09:00 IS-SH05-3  
THE ROLE OF SPORT HISTORY IN GENDER STUDIES  
Pfister, G. [Denmark]

## Friday, July 5

### 09:45 - 11:15

## IS-MI04

### Congress Hall

#### Individualization and optimization of exercise training prescription [Clinical track]

- Chair(s):  
Karsten, B. [Luxembourg]  
09:45 IS-MI04-1  
MONITORING AND OPTIMIZING TRAINING PRESCRIPTION IN CYCLING AND THE DEVELOPMENT



## OF A FATIGUE INDEX.

Lamberts, R.P. [South Africa]

10:15 IS-MI04-2

ACUTE AND CHRONIC RESPONSES TO INDIVIDUALIZED TRAINING PRESCRIPTIONS  
Hopker, J. [United Kingdom]

10:45 IS-MI04-3

OPTIMISING HIGH-INTENSITY AEROBIC TRAINING SESSIONS AND MONTHLY TRAINING ORGANISATION IN ENDURANCE ATHLETES  
Rønnestad, B.R. [Norway]

## OP-PM30

## Panorama Hall

## Cardiovascular physiology

Chair(s):

Laaksonen, M. [Sweden]

Thompson, W. [United States]

09:45 OP-PM30-1

CARDIOVASCULAR DRIFT AND LEFT VENTRICULAR PERFORMANCE DURING PROLONGED EXERCISE AT MODERATE INTENSITY

Laginja, F.G. et al [Italy]

10:00 OP-PM30-2

DIFFERENCES BETWEEN RIGHT AND LEFT VENTRICULAR STROKE VOLUMES AFTER CHANGES IN BODY POSITION - INFLUENCES FROM BREATHING MANEUVERS

Hoffmann, U. et al [Germany]

10:15 OP-PM30-3

AGE EFFECTS ON THE DEFLECTION OF THE HEART RATE PERFORMANCE CURVE IN MAXIMAL INCREMENTAL CYCLE ERGOMETER EXERCISE IN A LARGE COHORT OF HEALTHY SUBJECTS

Birnbauer, P. et al [Austria]

10:30 OP-PM30-4

INCREASED LEVELS OF PLASMA ENDOTHELIN-1 (ET-1) IN RESPONSE TO ACUTE EXTREME PHYSICAL BUT NOT TO MENTAL STRESS WITH PRESERVED LEFT VENTRICULAR FUNCTION IN MALE HUNGARIAN ATHLETES

Ligeti, R. et al [Hungary]

10:45

OP-PM30-5

CHANGES IN QT INTERVAL AND T-WAVE OF THE ELECTROCARDIOGRAM IN MALE MIDDLE-LONG RUNNERS OVER A THREE-YEAR TRAINING PERIOD\*  
Shi, Q. et al [Macau]

## OP-PM31

## South Hall 1A

## Obesity

Chair(s):

Wagenmakers, A. [United Kingdom]

Pilz-Burstein, R. [Israel]

09:45 OP-PM31-1

PHYSICAL ACTIVITY AND SEDENTARY BEHAVIOR LEVELS BETWEEN HIGH-INTENSITY INTERVAL TRAINING AND MODERATE-INTENSITY CONTINUOUS TRAINING EXERCISE INTERVENTIONS IN PREVIOUSLY INACTIVE, OVERWEIGHT ADULTS  
Taylor, K. et al [United States]

10:00 OP-PM31-2

THE LONG-TERM EFFICACY OF NORDIC WALKING VERSUS WALKING EXERCISE FOR OVERWEIGHT TREATMENT

Muollo, V. et al [Italy]

10:15 OP-PM31-3

EFFECT OF AN 8-WEEK FREE PRE-PREPARED LOW-CARBOHYDRATE DIET AND PRESCRIBED EXERCISE ON FITNESS, BODY COMPOSITION, AND BLOOD LIPID PROFILE IN OVERWEIGHT AND OBESE INDIVIDUALS.

Polman, R. et al [Australia]

10:30 OP-PM31-4

CHANGES IN BODY COMPOSITION DUE TO TWO DIFFERENT TYPE OF PHYSICAL ACTIVITY IN OBESE AND/OR HYPERTENSIVE ADOLESCENTS: PRELIMINARY RESULTS OF A PROSPECTIVE COHORT STUDY  
Abate Daga, F. [Italy]

10:45 OP-PM31-5

EFFECTS OF 12-WEEK SUPERVISED AND FOLLOW-UP WITH 12-WEEK SELF-REGULATED MIIT ON BODY COMPOSITION AND ADHERENCE IN OBESE SED-

ENTARY FEMALE ADULTS

WEN, H.J. et al [Taiwan]

## OP-PM32

## South Hall 1B

## Muscle damage and repair II

Chair(s):

Bogdanis, G. [Greece]

Damico, A. [United States]

09:45 OP-PM32-1

EXERCISE-INDUCED MUSCLE DAMAGE THROUGHOUT THE MENSTRUAL CYCLE

Romero-Parra, N. et al [Spain]

10:00 OP-PM32-2

SKELETAL MUSCLE TROPONIN RELEASE AFTER WHOLE-BODY ECCENTRIC EXERCISES RESULTING IN LARGE INCREASES IN PLASMA CK ACTIVITY

Chen, T.C. et al [Taiwan]

10:15 OP-PM32-3

CONTRALATERAL EFFECTS OF ECCENTRIC TRAINING ON NEUROMUSCULAR FUNCTION OF THE ELBOW FLEXORS DURING FOUR WEEKS OF IMMOBILISATION  
VALDES, O. et al [Chile]

10:30 OP-PM32-4

EFFECT OF MUSCLE LENGTHS DURING ECCENTRIC CONTRACTIONS ON DAMAGE AND THE REPEATED BOUT EFFECT OF THE RECTUS FEMORIS

Ema, R. et al [Japan]

10:45 OP-PM32-5

RUNNERS WITH REDUCED PACE EXHIBIT A SHORT STRIDE LENGTH AND HIGH MUSCLE DAMAGE VALUES OF AT THE END OF A MARATHON  
ISHIKURA, K. et al [Japan]

11:00 OP-PM32-6

DOES MATURATION INFLUENCE NEUROMUSCULAR PERFORMANCE AND MUSCLE DAMAGE AFTER

COMPETITIVE MATCH-PLAY IN YOUTH MALE SOCCER PLAYERS?

De Ste Croix, M. et al [United Kingdom]

## OP-BN19

## South Hall 2A

Motor learning and motor control:  
Coordination

Chair(s):

Vanlandewijck, Y. [Belgium]

Krug, J. [Germany]

09:45 OP-BN19-1

ANALYSIS OF INTERFERENCE BETWEEN PLAYERS DURING FACE-TO-FACE COOPERATIVE BALL-INTERCEPTION TASK

FAURE, C. et al [France]

10:00 OP-BN19-2

MOTOR COMPETENCES PREDICT CHANGES IN NEUROPHYSIOLOGICAL INDICES OF WORKING MEMORY MAINTENANCE

Ludyga, S. et al [Switzerland]

10:15 OP-BN19-3

ACUTE EFFECTS OF PHYSICAL AND MENTAL FATIGUE ON POSTURAL SWAY AND CORTICAL ACTIVITY IN HEALTHY YOUNG ADULTS

Gebel, A. et al [Germany]

10:30 OP-BN19-4

DOES A RELATIONSHIP EXIST BETWEEN CORE ENDURANCE AND STATIC BALANCE SCORES IN ADULT FEMALE COLLEGE WOMEN?

Seeger, D. et al [United States]

10:45 OP-BN19-5

POSTURAL CONTROL, INTER-MUSCLE COORDINATION AND MUSCLE ACTIVITY DURING HANDSTAND IN YOUNG AND ADULT GYMNASTS

Mieszkowski, J. et al [Poland]

11:00 OP-BN19-6

SOLEUS MUSCLE MOTOR CONTROL MAY BE MODULATED AT SPINAL BUT NOT IN CORTICAL LEVEL DURING ANTERIOR AND POSTERIOR BALANCE PERTURBATIONS.

Poikolainen, J. et al [Finland]

## OP-BN20

## South Hall 2B

## Training and testing in swimming II

Chair(s):

Fliess-Douer, O. [Israel]

Cobley, S. [Australia]

09:45 OP-BN20-1

DOES ALTITUDE TRAINING ENHANCE SPRINT-SWIMMING PERFORMANCE?

Winther, A.K. et al [Norway]

10:00 OP-BN20-2

CRITICAL VELOCITY RELATIONSHIP WITH PHYSIOLOGICAL PARAMETERS ASSESSED THROUGH TETHERED SWIMMING

Espada, M.C. et al [Portugal]

10:15 OP-BN20-3

EFFECTS OF DIFFERENT IN-WATER AND DRY-LAND RECOVERY STRATEGIES ON REPEATED 100M FREE-STYLE PERFORMANCE, PHYSIOLOGICAL RESPONSES AND PERCEPTUAL STATUS OF COMPETITIVE ADOLESCENT SWIMMERS.

Taylor, D. [United Kingdom]

10:30 OP-BN20-4

A METHOD OF DETERMINING DRAG COEFFICIENTS OF SWIMMERS DURING FRONT CRAWL SWIMMING TO ASSESS ITS RELATIONSHIP WITH TORSO SHAPE  
Papic, C. et al [Australia]

10:45 OP-BN20-5

AGE-RELATED PERFORMANCE DETERMINANTS OF YOUNG SWIMMERS.

Seffrin, A. et al [Brazil]

11:00 OP-BN20-6

OXYGEN UPTAKE KINETICS DURING MODERATE-INTENSITY FRONT CRAWL AND BREASTSTROKE SWIMMING

Lomax, M. [United Kingdom]

# Oral & Invited Presentations

## IS-BN05

### North Hall

#### Hamstring strain injuries: Prevention, rehabilitation and prediction. Lessons from moneyball [Clinical track]

Chair(s):

Timmins, R. [Australia]

09:45 IS-BN05-1  
HAMSTRING STRAIN INJURY PREVENTION/INTERVENTION: HOW TO MAKE SENSE OF ALL THE CONFLICTING VIEWS AND WHY CANT WE ALL GET ALONG?

Timmins, R. [Australia]

10:15 IS-BN05-2  
ACUTE HAMSTRING INJURIES: AN EVIDENCE-BASED ON DIAGNOSIS, PROGNOSIS, REHABILITATION AND RETURN TO SPORTS  
Wangensteen, A. [Norway]

10:45 IS-BN05-3  
PREDICTING HAMSTRING STRAIN INJURIES: IS IT POSSIBLE AND IS IT PRACTICAL?  
Ruddy, J. [Australia]

## OP-BN21

### Club A

#### Gait II

Chair(s):

Gehring, D. [Germany]

Zernicke, R. [United States]

09:45 OP-BN21-1  
IMMEDIATE GAIT ADAPTATION FROM WALKING ON A TREADMILL TO WALKING ON A TREADMILL IN A FULLY IMMERSIVE VIRTUAL ENVIRONMENT  
Bovim, L.P. et al [Norway]

10:00 OP-BN21-2  
LATERALITY OF FEMALE BREAST MOTION IN TREADMILL RUNNING  
Hassmann, M. et al [Austria]

10:15 OP-BN21-3  
INTRA-LIMB COORDINATION AND COORDINATION VARIABILITY OF SEMI-PROFESSIONAL SOCCER PLAYERS DURING AN ACCELERATION SPRINT RUN  
WDOWSKI, M. et al [United Kingdom]

10:30 OP-BN21-4  
THE ANKLE POSITION AFFECTS THE HAMSTRING ACTIVATION DURING THE NORDIC EXERCISE PERFORMANCE  
Radaelli, R. et al [Brazil]

10:45 OP-BN21-5  
DO CUSTOM FOOT ORTHOSES MODIFY THE BIOMECHANICAL MANIFESTATION OF FATIGUE DURING REPEATED TREADMILL SPRINTS?  
Girard, O. et al [Australia]

11:00 OP-BN21-6  
CHANGES IN CONTACT AND FLIGHT TIMES WITH INCREASED SPEED DURING OVERGROUND AND TREADMILL RACE WALKING  
Hanley, B. et al [United Kingdom]

## OP-PM33

### Club E

#### Healthy and fitness: Ageing II

Chair(s):

Buckley, J. [Australia]

Berntsen, S. [Norway]

09:45 OP-PM33-1  
LONGEVITY AND CAUSES OF DEATH IN FORMER US OLYMPIANS  
Antero, J. et al [France]

10:00 OP-PM33-2  
IMMUNOMODULATORY EFFECTS OF REGULAR EXERCISE TRAINING IN YOUNG AND OLDER ADULTS  
Papp, G. et al [Hungary]

10:15 OP-PM33-3  
EFFECT OF AEROBIC EXERCISE AND PM2.5 ON LUNG PULMONARY FUNCTION AND INFLAMMATION IN AGED RATS  
ZHAO, J. et al [China]

10:30 OP-PM33-4  
CAPACITY OF CARE HOME RESIDENTS TO PERFORM FUNCTIONAL ABILITY TESTS  
Bampouras, T. et al [United Kingdom]

10:45 OP-PM33-5  
INFLUENCE OF SPEED DIFFERENCE IN CHAIR SIT-TO-STAND EXERCISE ON HEART RATE AND BLOOD PRESSURE RESPONSES IN THE ELDERLY  
Shima, N. et al [Japan]

## OP-PM34

### Club H

#### Molecular biology and biochemistry: Muscle - Inflammation - Mitochondria

Chair(s):

Tiidus, P. [Canada]

Atherton, P. [United Kingdom]

09:45 OP-PM34-1  
CHARACTERISTICS OF RIBOSOMAL ACCUMULATION DURING SHORT-TERM RESISTANCE TRAINING WITH VARIABLE TRAINING VOLUME AND THE EFFECT OF SHORT-TERM DE-TRAINING  
Hammarström, D. et al [Norway]

10:00 OP-PM34-2  
THE EFFECT OF AN ANTI-INFLAMMATORY TREATMENT ON SKELETAL MUSCLE REGENERATION IN A CARDIOTOXIN-INDUCED INJURY MODEL  
dalle, s. [Belgium]

10:15 OP-PM34-3  
DISRUPTION OF MUSCLE STEM CELLS NICHE AFTER ACUTE RADIATION EXPOSURE DURING MUSCLE DEVELOPMENT  
Collao, N. [Canada]

10:30 OP-PM34-4  
EFFECT OF EXTREME EXERCISE ON SKELETAL MUSCLE MITOCHONDRIAL FUNCTION IN YOUNGER AND OLDER MEN  
Sahl, R.E. et al [Denmark]

10:45 OP-PM34-5  
AEROBIC EXERCISE AND CALORIES RESTRICTION PROMOTE SKELETAL MUSCLAR MITOPHAGY WITH

MTORC1 INHIBITION IN AGING RATS  
Wen, L. et al [China]

## IS-SH06

### Terrace 2B

#### Sustainable sport tourism - Challenges for the future

Chair(s):

Hedenborg, S. [Sweden]

09:45 IS-SH06-1  
THE CANADIAN BIRKEBEINER SKI FESTIVAL AND SUSTAINABLE HERITAGE SPORT TOURISM  
Reichwein, P. [Canada]

10:15 IS-SH06-2  
SEARCHING FOR THE PERFECT RIDE. A TENTATIVE STUDY OF HORSE TOURISM ON INTERNET  
Hedenborg, S. [Sweden]

10:45 IS-SH06-3  
SPORT AN NATURE-BASED TOURISM IN NORWAY: SPORT/FRILUFTSLIV, TOURISM AND (MEDIATED) NATURE  
Radmann, A. [Norway]

## Friday, July 5

### 11:30 - 12:45

## PL-PS03

### Congress Hall

#### Sport and brain injuries - A red flag for sport?

Chair(s):

Hedenborg, S. [Sweden]

11:30 PL-PS03-1  
CHRONIC TRAUMATIC ENCEPHALOPATHY IN TOP ATHLETES  
McKee, A. [Australia]

12:10 PL-PS03-2  
SCHOOL'S RUGBY AS INSTITUTIONAL CHILD ABUSE  
Anderson, E. [United Kingdom]

## Friday, July 5

14:45 - 16:15

## IS-PM07

## Congress Hall

**Looking inside-out into ageing skeletal muscle: Hormones, systemic inflammatory environment and the extracellular matrix**

Chair(s):

Wessner, B. [Austria]

14:45 IS-PM07-1

HORMONES AND EXERCISE-INDUCED MUSCLE HYPERTROPHY ACROSS AGE

Atherton, P.J. [United Kingdom]

15:15 IS-PM07-2

THE SYSTEMIC INFLAMMATORY ENVIRONMENT OF SKELETAL MUSCLE IN OLD AGE - INFLUENCE OF PHYSICAL ACTIVITY

Kadi, F. [Sweden]

15:45 IS-PM07-3

INTRAMUSCULAR CONNECTIVE TISSUE - A NOVEL PLAYER IN MAINTAINING MUSCLE MASS AND FUNCTION?

Wessner, B. [Austria]

## OP-PM35

## Panorama Hall

## Interval training

Chair(s):

Bishop, D. [Australia]

Westerblad, H. [Sweden]

14:45 OP-PM35-1

CAN THE ADDITION OF SPRINT INTERVALS TO TRADITIONAL LOW-INTENSITY TRAINING MAINTAIN AEROBIC CAPACITY AND PERFORMANCE DURING

THE POST-SEASON TRANSITIONAL PERIOD IN WELL-TRAINED CYCLISTS?

BYRKJEDAL, P.T. et al [Norway]

15:00 OP-PM35-2

CURRENT METHODS TO INDIVIDUALISE EXERCISE INTENSITY ARE INAPPROPRIATE FOR EXHAUSTIVE INTERVAL TRAINING

Bossi, A.H. et al [United Kingdom]

15:15 OP-PM35-3

EFFECTIVITY OF HIGH INTENSITY HIGH VOLUME TRAINING (HIHVT) VS CONTINUOUS TRAINING (CT)?

Wittke, T.C. et al [Germany]

15:30 OP-PM35-4

PHYSIOLOGICAL PROFILE OF 4-MIN AND 8-MIN SELF-PACED CYCLING INTERVALS: INFLUENCE OF WORK-TO-REST MANIPULATION

de Lucas, R.D. et al [Brazil]

15:45 OP-PM35-5

PUTTING MORE HIT IN HIIT: ECCENTRIC CYCLING DURING THE RECOVERY PHASE

Harrison, A.J. et al [Australia]

Harrison, A.J. et al [Australia]

## OP-PM36

## South Hall 1A

## Nutrition: Ergogenic aids II

Chair(s):

Roelands, B. [Belgium]

Brandstaetter, R. [Austria]

14:45 OP-PM36-1

A MODERATE CAFFEINE DOSE INCREASES STRENGTH PERFORMANCE IN RESISTANCE-TRAINED FEMALES

Risvang, L. et al [United Kingdom]

15:00 OP-PM36-2

ACUTE PRE-EXERCISE CARNOSINE/ANSERINE SUPPLEMENTATION IMPROVES HUMAN MAXIMAL ISOMETRIC MUSCLE FORCE AND CYCLING POWER IN AN UNFATIGUED STATE

de Jager, S. et al [Belgium]

15:15 OP-PM36-3

DOES PHOSPHOCREATINE PLAY A ROLE IN THE MENTAL FATIGUE-ASSOCIATED DECREASE IN SPORT-

SPECIFIC PSYCHOMOTOR PERFORMANCE?

Van Cutsem, J. et al [Belgium]

15:30 OP-PM36-4

QUININE INGESTION DURING THE LATTER STAGES OF A 3 KM TT FAILS TO IMPROVE CYCLING PERFORMANCE

Etxebarria, N. et al [Australia]

15:45 OP-PM36-5

ENHANCEMENT OF EXERCISE PERFORMANCE BY 48 HOURS, AND 15-DAY SUPPLEMENTATION WITH MANGIFERIN AND LUTEOLIN IN MEN

Gelabert-Rebato, M. et al [Spain]

Gelabert-Rebato, M. et al [Spain]

## OP-PM37

## South Hall 1B

## Fatigue

Chair(s):

Lepers, R. [France]

Angius, L. [United Kingdom]

14:45 OP-PM37-1

DETERMINANTS OF TASK AND CONTRACTILE FAILURES DURING THE REPETITION OF SUSTAINED SUBMAXIMAL ISOMETRIC CONTRACTIONS

Hureau, T.J. et al [France]

15:00 OP-PM37-2

ALTERATIONS OF MUSCLE RECRUITMENT STRATEGIES AT THE SINGLE MOTOR UNIT LEVEL IN THE FATIGUED AND DAMAGED STATE FOLLOWING ECCENTRIC EXERCISE

Piasecki, M. et al [United Kingdom]

15:15 OP-PM37-3

NEUROMUSCULAR FATIGUE IN ELBOW FLEXORS VS. KNEE EXTENSORS AFTER ARM-CRANKING AND CYCLING EXERCISES

Colosio, M. et al [Italy]

15:30 OP-PM37-4

THE EFFECT OF TRANSCRANIAL DIRECT CURRENT STIMULATION ON CYCLING PERFORMANCE AND THE MODULATION OF EXERCISE-INDUCED PAIN.

Judge, M. et al [United Kingdom]

15:45

OP-PM37-5

CHARACTERIZING THE PLASMA METABOLOME DURING AND FOLLOWING A MAXIMAL EXERCISE CYCLING TEST

Fairchild, T.J. et al [Australia]

16:00 OP-PM37-6

DISSOCIATION BETWEEN PERCEPTION OF EFFORT AND MUSCLE PAIN DURING CYCLING EXERCISE

Clos, P. et al [France]

## OP-MI11

## South Hall 2A

## Cycling

Chair(s):

Lamberts, R. [South Africa]

Dufour, S. [France]

14:45 OP-MI11-1

EFFECT OF POSTURE ON DIFFERENT INDEXES USED TO ASSESS THE AERODYNAMIC DRAG FORCES ACTING ON RECREATIONAL ROAD CYCLISTS

Polanco, A. et al [Colombia]

15:00 OP-MI11-2

CONCURRENT VALIDITY OF DEAD CENTER IDENTIFICATION DURING PEDALING MOTION BASED ON INERTIAL MEASUREMENT UNITS PLACED ON LOWER LIMBS.

CORDILLET, S. et al [France]

15:15 OP-MI11-3

SYSTEM IDENTIFICATION OF A MATHEMATICAL MODEL TO PREDICT CYCLING POWER AS PART OF A PACING CONTROL SYSTEM

Mayerhofer, P. et al [Canada]

15:30 OP-MI11-4

RELIABILITY AND VALIDITY OF THE 3-MINUTES ALL-OUT TEST IN FLAT-WATER KAYAKERS

Pilotto, A.M. et al [Italy]

15:45 OP-MI11-5

EFFECTS OF PARAMETER DEFINITION FOR PERFORMANCE PREDICTION DURING 4-KM CYCLING TIME TRIALS

Beltrami, F.G. et al [Switzerland]

## OP-MI10

## South Hall 2B

## Strength and power I

Chair(s):

Zemkova, E. [Slovakia]

Kay, A. [United Kingdom]

14:45 OP-MI10-1

PREDICTIVE VALIDITY OF LOAD-VELOCITY MODELS TO DETERMINE THE ONE-REPETITION MAXIMUM IN TRAINED POWERLIFTERS

Mitter, B. et al [Austria]

15:00 OP-MI10-2

DIFFERENCES IN THE LOAD-VELOCITY PROFILES AMONG THREE UPPER-BODY PRESSING EXERCISES

Suzovic, D. et al [Serbia]

15:15 OP-MI10-3

CHANGES IN NUMBER OF REPETITIONS AND HEART RATE AND HEART RATE RECOVERY RATE ACCORDING TO REST TIME BETWEEN SETS ON 20RM BENCH PRESS EXERCISE.

Yoon, C. et al [Korea, South]

15:30 OP-MI10-4

DIURNAL AND DAY-TO-DAY VARIATIONS IN ISOMETRIC AND ISOKINETIC LEG AND ARM STRENGTH

Knaier, R. et al [Switzerland]

15:45 OP-MI10-5

MENTAL FATIGUE ALTERS WEIGHT PERCEPTION AND INCREASES RPE DURING RESISTANCE TRAINING SESSIONS

Staiano, W. et al [Spain]

16:00 OP-MI10-6

ACUTE CHANGES IN HEART RATE VARIABILITY AFTER RESISTANCE TRAINING SESSIONS DIFFERING IN SET CONFIGURATION

Rúa-Alonso, M. et al [Spain]

# Oral & Invited Presentations

## OP-BN22

### North Hall

#### Muscle and/or tendon function II

Chair(s):

Farris, D. [United Kingdom]

Nicol, C. [France]

14:45 OP-BN22-1

IMPACT OF THE PLANTARFLEXOR MORPHOLOGY AND FOOT STRUCTURE ON RUNNING PERFORMANCE

Kovács, B. et al [Hungary]

15:00 OP-BN22-2

CHANGES IN HAMSTRING MORPHOLOGY AND ARCHITECTURE ARE NOT ASSOCIATED WITH SPRINTING OR VERTICAL JUMP PERFORMANCE

Duhig, S. et al [Australia]

15:15 OP-BN22-3

THE EFFECT OF STEP FREQUENCY ON THE BEHAVIOR OF MEDIAL GASTROCNEMIUS MUSCLE-TENDON COMPLEX DURING HUMAN RUNNING

Takeshita, T. et al [Japan]

15:30 OP-BN22-4

PROXIMAL-DISTAL HAMSTRINGS ELECTROMYOGRAPHY ACTIVITY AT DIFFERENT RUNNING SPEEDS

Hegyi, A. et al [Finland]

15:45 OP-BN22-5

OPERATING LENGTH AND VELOCITY OF M. SOLEUS FASCICLES DURING RUNNING AND THE ASSOCIATION TO LOCOMOTOR ECONOMY

Bohm, S. et al [Germany]

16:00 OP-BN22-6

THE EFFECTS OF MUSCLE MASS ON CONTRACTILE PERFORMANCE IN HUMANS

Ross, S.A. et al [Canada]

## OP-BN23

### Club A

#### Sports technology III

Chair(s):

Madigan, D. [United Kingdom]

Linnamo, V. [Finland]

14:45 OP-BN23-1

MACHINE LEARNING PREDICTION MODELING IN ELITE SPORTS

Kljuchnikov, M.S. et al [Russia]

15:00 OP-BN23-2

USING MACHINE LEARNING TO INFER INDIVIDUAL ATHLETE MOVEMENT MODELS FROM VIDEO

Gallagher, K.V. et al [United States]

15:15 OP-BN23-3

ANALYSIS OF FOOT SKIN TEMPERATURE AND THERMAL COMFORT PERCEPTION OF A THERMOFORMABLE PREFABRICATED INSOLE DURING RUNNING

REQUENA BUENO, L. [Spain]

15:30 OP-BN23-4

SKI STYLE CLASSIFICATION AND SCORING USING A SIMPLE SENSOR AND ALGORITHM SYSTEM

Snyder, C. et al [Austria]

15:45 OP-BN23-5

DATA PROCESSING INFLUENCES THE CONCURRENT VALIDITY OF IMUS FOR INDOOR PLAYER MONITORING

Roell, M. et al [Germany]

16:00 OP-BN23-6

FORCES APPLIED IN EROGMENTER AND ON-WATER ROWING - A NON REPRESENTATIVE ENVIRONMENT

Millar, S.K. et al [New Zealand]

## OP-PM38

### Club E

#### Team sports: Children

Chair(s):

Reichwein, P. [Canada]

Hoos, O. [Germany]

14:45 OP-PM38-1

EFFECTS OF 4V4 COMPARED TO 7V7 MATCH PLAY ON TECHNICAL AND TACTICAL PARAMETERS IN YOUTH SOCCER PLAYERS

Hintermann, M. et al [Switzerland]

15:00 OP-PM38-2

THE RELATIONSHIP BETWEEN THE LEVEL OF ALL-ROUND DEVELOPMENT AND THE ACQUISITION OF SPECIFIC SPORT SKILLS IN CHILDREN IN YOUNGER SCHOOL AGE

Komínková, L. [Czech Republic]

15:15 OP-PM38-3

EXAMINING THE BIDIRECTIONAL ASSOCIATIONS BETWEEN CHANGES IN CARDIORESPIRATORY FITNESS AND FATNESS: THE UP&DOWN LONGITUDINAL STUDY

Perez-Bey, A. et al [Spain]

15:30 OP-PM38-4

THE EFFECT OF STRUCTURED FOOTBALL TRAINING PROGRAMME ON FOOTBALL, PSYCHOLOGICAL AND PHYSICAL ACTIVITY RELATED MEASURES IN HONG KONG BOYS

O'Reilly, J. et al [Hong Kong]

15:45 OP-PM38-5

PHYSICAL ACTIVITY LEVELS AND SELF-RATED HEALTH IN SPANISH SCHOOLCHILDREN: A TREND ANALYSIS, 2011-2018

Grao-Cruces, A. et al [Spain]

16:00 OP-PM38-6

ACCELEROMETER-MEASURED PHYSICAL ACTIVITY IN CHILDREN AND ADOLESCENTS AT ALTITUDES OVER 3,500 METERS: A CROSS-SECTIONAL STUDY IN TIBET

Wang, M. [China]

## OP-PM39

### Club H

#### Health and fitness: Pregnancy - HIIT - Timing of exercise

Chair(s):

Budde, H. [Germany]

Jones, H. [United Kingdom]

14:45 OP-PM39-1

RELATIONSHIP BETWEEN LONGITUDINAL CHANGES IN RESTING ENERGY EXPENDITURE AND BODY COMPOSITION DURING PREGNANCY

Van Oort, A.F. et al [South Africa]

15:00 OP-PM39-2

EFFECT OF AEROBIC EXERCISE DURING PREGNANCY ON OFFSPRING VASCULAR STRUCTURE

Hopkins, N. [United Kingdom]

15:15 OP-PM39-3

PHYSIOLOGICAL AND PSYCHOLOGICAL EFFECTS OF LOW VOLUME HIGH INTENSITY INTERVAL EXERCISE IN YOUNG AND OLDER MEN

Kamandulis, S. et al [Lithuania]

15:30 OP-PM39-4

THE INFLUENCE OF SHORT-TERM AEROBIC CONDITIONING ON CHRONIC RESISTANCE TRAINING OUTCOMES IN HEALTHY YOUNG MEN AND WOMEN

Thomas, A. et al [Canada]

15:45 OP-PM39-5

HIT THE GYM BEFORE YOU HIT THE HAY? THE IMPACT OF MODERATE AEROBIC EXERCISE AND MODERATE RESISTANCE EXERCISE ON NIGHT-TIME SLEEP

Miller, D.J. et al [Australia]

16:00 OP-PM39-6

HIGH-INTENSITY INTERVAL TRAINING AMELIORATES CEREBROVASCULAR PHENOTYPE WITHOUT IMPROVEMENTS IN CENTRAL ARTERIAL STIFFNESS: CONSEQUENCES AND POTENTIAL MECHANISMS

Streese, L. [Switzerland]

## IS-MI03

### Terrace 2A

#### Sport for athletes with disability: Classification research, smart monitoring technology and training or performance issues in wintersports for individuals with disability

Chair(s):

Fliess-Douer, O. [Israel]

14:45 IS-MI03-1

SPORT FOR ATHLETES WITH DISABILITY: CLASSIFICATION RESEARCH, SMART MONITORING TECHNOLOGY AND TRAINING OR PERFORMANCE ISSUES IN WINTER SPORTS FOR INDIVIDUALS WITH DISABILITY

Vanlandewijck, Y. [Belgium]

15:15 IS-MI03-2

SMART SENSOR TECHNOLOGY AND MODERN MEASUREMENT TOOLS AND CONCEPTS IN WINTER SPORTS FOR ATHLETES WITH DISABILITY - OPTIONS FOR TRAINING AND RACE ANALYSES

Lindinger, S. [Sweden]

15:45 IS-MI03-3

TRAINING INTERVENTIONS AND PERFORMANCE IN DISABLED ELITE SPORTS

Perret, C. [Switzerland]

## OP-PM44

### Terrace 2B

#### Nutrition: Carbohydrates and dietary regimens

Chair(s):

Kilding, A. [New Zealand]

Thompson, W. [United States]

14:45 OP-PM44-1

THE EFFECT OF A LOW CARBOHYDRATE HIGH FAT DIET ON BODY COMPOSITION AND INSULIN SIGNALLING

McCullough, D. et al [United Kingdom]



15:00 OP-PM44-2  
EFFECTS OF A VERY LOW CARBOHYDRATE KETOGENIC DIET ON BODY COMPOSITION, MUSCLE STRENGTH, MUSCLE AREA, METABOLISM AND PERFORMANCE IN SEMI-PROFESSIONAL SOCCER PLAYERS  
Paoli, A. et al [Italy]  
15:15 OP-PM44-3  
VOLUNTARY WHEEL RUNNING ACCELERATES PHGG-INDUCED GUT ENVIRONMENTAL IMPROVEMENT IN HIGH-FAT-DIET FED MICE  
Aoki, T. et al [Japan]  
15:30 OP-PM44-4  
CYSTINE AND GLUTAMINE ALLEVIATES THE EXERCISE-INDUCED DISRUPTION OF GUT BARRIER FUNCTION, THROUGH SUPPRESSING INFLAMMATION  
Mizugaki, A. et al [Japan]

## Friday, July 5

16:45 - 18:15

### IS-PM08

#### Congress Hall

**A warm bath, glass of (chocolate) milk and a comfortable mattress: optimizing recovery of exercise performance [Applied track]**

Chair(s):  
Wallis, G. [United Kingdom]  
16:45 IS-PM08-1  
TEMPERATURE EFFECTS ON RECOVERY OF MUSCLE FUNCTION  
Westerblad, H. [Sweden]  
17:15 IS-PM08-2  
NUTRITION TO OPTIMISE RECOVERY  
Wallis, G. [United Kingdom]  
17:45 IS-PM08-3  
SLEEP AND SPORTS PERFORMANCE  
Halsen, S. [Australia]

### IS-EX02

#### Panorama Hall

**ECSS-JSPFSM Exchange symposium: Lactate/pyruvate metabolism in skeletal muscle: Energy substrates and beyond**

Chair(s):  
Nagatomi, R. [Japan]

IS-EX02-1  
LACTATE TRANSPORTERS IN SKELETAL MUSCLE  
Kitaoka, Y. [Japan]  
IS-EX02-2  
LACTATE AS A SIGNALING MOLECULE FOR TRAINING ADAPTAION  
Hoshino, D. [Japan]

IS-EX02-3  
EXERCISE-INDUCED PDH REGULATION IN SKELETAL MUSCLE  
Pilegaard, H. [Denmark]

### OP-PM40

#### South Hall 1A

**Fat, glucose and metabolism**

Chair(s):  
Basset, F. [Canada]  
Ara, I. [Spain]  
16:45 OP-PM40-1  
EFFECT OF MATCHA GREEN TEA SUPPLEMENTATION ON METABOLIC AND PHYSIOLOGICAL RESPONSES AT MODERATE INTENSITY EXERCISE IN FEMALES  
Kaviani, M. et al [Canada]  
17:00 OP-PM40-2  
THE INFLUENCE OF 'SLEEP-LOW' CARBOHYDRATE PERIODISATION ON IRON REGULATION AND IMMUNE FUNCTION IN ELITE TRIATHLETES  
McKay, A. et al [Australia]

17:15 OP-PM40-3  
PRE-MATCH MUSCLE GLYCOGEN LEVELS OF THREE MATCHES IN 1 WEEK BASED ON HIGH CARBOHYDRATE INTAKE  
Nakamura, D. et al [Japan]  
17:30 OP-PM40-4  
EFFECTS OF VOLUNTARY EXERCISE ON PLASMA AND URINARY METABOLITES AND GUT MICROBIOTA IN A HIGH-FAT-DIET FED MICE  
Oyanagi, E. et al [Japan]  
17:45 OP-PM40-5  
ISOCALORICS AND ENJOYMENT OF MODERN ENDURANCE TRAINING MODALITIES (HIT VS. SIT VS. THRESHOLD VS. LIT) IN FIT AND UNFIT  
Stöggel, T. et al [Austria]

### OP-PM45

#### South Hall 1B

**Nutrition: Protein and dietary regimens**

Chair(s):  
Rowlands, D. [New Zealand]  
Patricia, D. [Canada]  
16:45 OP-PM45-1  
BODY COMPOSITION AND NUTRIENT INTAKE OF OLYMPIC AND ELITE RHYTHMIC GYMNASTS  
Kolimechkov, S. et al [United Kingdom]  
17:00 OP-PM45-2  
EFFECTS OF 4-HOUR TIME RESTRICTED FEEDING ON BODY COMPOSITION AND PERFORMANCE  
Wachsmuth, N. et al [Germany]  
17:15 OP-PM45-3  
ASSESSMENT OF ENERGY AVAILABILITY AND ASSOCIATED RISK FACTORS IN PROFESSIONAL FEMALE SOCCER PLAYERS  
Moss, S.L. et al [United Kingdom]  
17:30 OP-PM45-4  
PREVALENCE OF RELATIVE ENERGY DEFICIENCY IN SPORT (RED-S) RISK AMONGST AMATEUR AND RECREATIONAL ATHLETES IN SINGAPORE  
Mukherjee, S. et al [Singapore]

17:45 OP-PM45-5  
PROTEIN SUPPLEMENTATION DOES NOT FURTHER AUGMENT ENDURANCE CAPACITY AND PERFORMANCE FOLLOWING PROLONGED ENDURANCE EXERCISE TRAINING: A RANDOMIZED CONTROLLED TRIAL  
Jonvik, K.L. et al [Netherlands]  
18:00 OP-PM45-6  
EFFECTS OF POST-EXERCISE WHEY PROTEIN OR CARBOHYDRATE CONSUMPTION ON PERFORMANCE RECOVERY AND INFLAMMATORY CYTOKINES IN YOUNG COMPETITIVE SWIMMERS  
McKinlay, B.J. et al [Canada]

### OP-PM52

#### South Hall 2A

**Health and fitness: Cardiovascular**

Chair(s):  
Cogo, A. [Italy]  
MacDonald, M. [Canada]  
16:45 OP-PM52-1  
THE CHANGES OF HRV DUE TO A 6-MONTH LONG PHYSICAL ACTIVITY PROGRAM IN HEALTHY YOUNG SEDENTARY WOMEN.  
Ádám, Z. et al [Hungary]  
17:00 OP-PM52-2  
EFFECTS OF A 12-WEEK AEROBIC EXERCISE INTERVENTION ON CARDIOVASCULAR RISK FACTORS, CARDIORESPIRATORY FITNESS, AND PATIENT-REPORTED OUTCOMES IN WOMEN WITH SYSTEMIC LUPUS ERYTHEMATOSUS  
Soriano-Maldonado, A. et al [Spain]  
17:15 OP-PM52-3  
IMPACT OF OBESITY ON WALKING CAPACITY AND CARDIOVASCULAR FUNCTION OF PERIPHERAL ARTERY DISEASE PATIENTS: A CROSS-SECTIONAL STUDY  
Ritti-Dias, R. et al [Brazil]  
17:30 OP-PM52-4  
THE ASSOCIATION BETWEEN CARDIORESPIRATORY FITNESS AND NAFLD IN OVERWEIGHT AND OBESE ADULTS.  
Sabag, A. et al [Australia]

17:45 OP-PM52-5  
COMPARING THE EFFECTS OF TWELVE WEEKS OF HIGH-INTENSITY INTERVAL AND MODERATE-INTENSITY CONTINUOUS TRAININGS ON AFFECTIVE AND ENJOYABLE RESPONSES OF INACTIVE YOUNG WOMEN  
Li, F.F. et al [China]

### OP-PM51

#### South Hall 2B

**Exercise therapy**

Chair(s):  
Wiskemann, J. [Germany]  
Zijdwind, I. [Netherlands]  
16:45 OP-PM51-1  
CHANGES IN CORTICAL MOTOR PLANNING FOLLOWING THERAPEUTIC EXERCISE POST-STROKE  
Garland, S.J. et al [Canada]  
17:00 OP-PM51-2  
THE EFFECTS OF EXERCISE ON THE SYMPTOMS OF PERIPHERAL NEUROPATHIES – A META-ANALYSIS  
Streckmann, F. et al [Germany]  
17:15 OP-PM51-3  
EFFECTS SPRINT INTERVAL TRAINING ON EXERCISE MOTIVATION AND AFFECTIVE RESPONSES IN PATIENTS WITH MAJOR DEPRESSIVE DISORDERS: A RANDOMIZED CONTROLLED TRIAL  
Donath, L. et al [Germany]  
17:30 OP-PM51-4  
DEVELOPMENT OF A DUAL TASK MANAGING TRAINING FOR PATIENTS WITH PARKINSON'S DISEASE  
Rudnik, S. et al [Germany]  
17:45 OP-PM51-5  
FOSTERING AUTONOMOUS MOTIVATION, CARDIORESPIRATORY FITNESS, AND PHYSICAL ACTIVITY TO IMPROVE CARDIOVASCULAR DISEASE RISK AND WELLBEING IN RHEUMATOID ARTHRITIS: A RANDOMISED CONTROLLED TRIAL  
Veldhuijzen van Zanten, J.J.C.S. et al [United Kingdom]

# Oral & Invited Presentations

18:00 OP-PM51-6  
ISOLATED LUMBAR EXTENSION RESISTANCE EXERCISE AS TREATMENT OPTION FOR PATIENTS WITH ADVANCED STAGES OF SPINAL DISORDERS – A CASE SERIES OF 428 PATIENTS  
Spang, C. et al [Germany]

## OP-MI13

### North Hall

#### Middle - Long distance running

Chair(s):  
Derave, W. [Belgium]  
Dufour, S. [France]  
16:45 OP-MI13-1  
ANALYSIS OF ACUTE-CHRONIC WORKLOAD RATIOS IN POPULAR MARATHON TRAINING PROGRAMS  
Feric, M. et al [United States]  
17:00 OP-MI13-2  
EFFECT OF TWO DIFFERENT RETRAINING PROGRAMS ON POPULAR LONG-DISTANCE RUNNERS IN TERMS OF POSTURAL BALANCE.  
Molina-Molina, A. et al [Spain]  
17:15 OP-MI13-3  
ALTERATIONS IN TRAINING VOLUME AFFECT SKELETAL MUSCLE OXIDATIVE CAPACITY IN TRAINED MIDDLE-DISTANCE RUNNERS  
Bellinger, P. et al [Australia]  
17:30 OP-MI13-4  
UPHILL RUNNING GAIT VARIABILITY  
Padulo, J. et al [Croatia]  
17:45 OP-MI13-5  
DIFFERENT PSYCHOPHYSIOLOGICAL RESPONSES TO A HIGH-INTENSITY REPETITION SESSION PERFORMED ALONE OR IN A GROUP BY ELITE MIDDLE-DISTANCE RUNNERS  
CASADO, A. et al [Spain]

## OP-MI12

### Club A

#### Team sports: Soccer

Chair(s):  
Gabrys, T. [Czech Republic]  
Edwards, A. [United Kingdom]  
16:45 OP-MI12-1  
MOTOR ABILITY AND LOWER LIMBS KINEMATICS IN YOUNG FOOTBALL PLAYERS: AN INERTIAL SENSORS-BASED KINEMATIC EVALUATION  
Di Paolo, S. et al [Italy]  
17:00 OP-MI12-2  
THE EFFECT OF DIFFERENT PLAYING SURFACES ON SOCCER SKILL PERFORMANCE  
Ali, A. et al [New Zealand]  
17:15 OP-MI12-3  
INFLUENCE OF FATIGUE ON THE H/Q RATIO AND THE ANGLE OF MAXIMAL TORQUE IN PROFESSIONAL SOCCER PLAYERS  
Zhang, Q.S. et al [France]  
17:30 OP-MI12-4  
PHYSICAL ACTIVITY MONITORING WITH GPS AND 9-AXIS MOTION SENSOR FOR SOCCER PLAYERS  
Tanaka, T. et al [Japan]  
17:45 OP-MI12-5  
PREDICTING AND INDIVIDUALIZING TRAINING LOAD USING HISTORICAL GPS DATA IN ELITE SOCCER  
Simpkin, A. et al [Ireland]  
18:00 OP-MI12-6  
THE IMPACT OF INTENSIVE SMALL SIDED GAMES ON THE DECISION-MAKING ABILITY OF SOCCER PLAYERS  
MITROTASIOS, M. et al [Greece]

## OP-PM50

### Club E

#### Molecular biology and biochemistry: Genomics II

Chair(s):  
September, A. [South Africa]  
Esser, K. [United States]  
16:45 OP-PM50-1  
INVESTIGATION OF THREE INDEPENDENT POPULATIONS STRENGTHENS THE HYPOTHESIS THAT GENETIC LOCI WITHIN THE PROTEOGLYCAN AND ANGIOGENESIS ASSOCIATED PATHWAYS PREDISPOSE TO ANTERIOR CRUCIATE LIGAMENT INJURY  
Feldmann, D.C. et al [South Africa]  
17:00 OP-PM50-2  
APPLICATION OF A WHOLE EXOME SEQUENCING MODEL IDENTIFIES POLYMORPHISMS WITHIN THE TGFB3 AND TGFB1 GENES TO BE ASSOCIATED WITH SUSCEPTIBILITY TO ANTERIOR CRUCIATE LIGAMENT RUPTURES.  
September, A.V. et al [South Africa]  
17:15 OP-PM50-3  
TOP ATHLETES DEMONSTRATE GENOTYPE AND PHENOTYPE SPECIFIC SPECIALIZATION OF MUSCLE COMPOSITION  
Flück, M. et al [Switzerland]  
17:30 OP-PM50-4  
FUNCTIONAL POLYMORPHISMS WITHIN THE INFLAMMATORY PATHWAY REGULATE EXPRESSION OF EXTRACELLULAR MATRIX COMPONENTS IN A GENETIC RISK DEPENDENT MODEL FOR ANTERIOR CRUCIATE LIGAMENT INJURIES  
Suijkerbuijk, M. [Netherlands]

## OP-PM59

### Club H

#### Molecular biology and biochemistry: Microbiota - Metabolism

Chair(s):  
Parise, G. [Canada]  
Song, W. [Korea, South]  
16:45 OP-PM59-1  
VOLUNTARY WHEEL RUNNING INFLUENCES ON DYNAMICS OF GUT MICROBIOTA F/B RATIO IN TLR5 DEFICIENT MICE  
Yano, H. et al [Japan]  
17:00 OP-PM59-2  
DIFFERENT EFFECTS OF EXERCISE INTENSITY ON GUT MICROBIOME COMPOSITION IN PATIENTS WITH TYPE 2 DIABETES  
Torquati, L. et al [Australia]  
17:15 OP-PM59-3  
THE EFFECT OF TRAINING AND SINGLE BOUT OF EXERCISE ON BLOOD IRISIN AND BDNF CONCENTRATION AND ENERGY STATUS OF ERYTHROCYTES  
Rodziewicz, E. et al [Poland]  
17:30 OP-PM59-4  
CIRCULATING MYOKINE IRISIN LEVELS MODULATED BY AN ACUTE BOUT OF AEROBIC EXERCISE ARE LINKED TO COGNITIVE FUNCTIONS AND METABOLISM IN THE ELDERLY  
Ukropec, J. et al [Slovakia]  
17:45 OP-PM59-5  
EFFECTS OF WHEEL RUNNING ON BLOOD-BRAIN-BARRIER PERMEABILITY IN HIGH-FAT-DIET FED MICE  
Watanabe, C. et al [Japan]  
18:00 OP-PM59-6  
HYPOXIC TRAINING IN OBESE MICE WITH METABOLIC DISORDER  
ru, w. [China]

## OP-BN24

### Terrace 2A

#### Paralympics

Chair(s):  
Fliess-Douer, O. [Israel]  
Hoos, O. [Germany]  
16:45 OP-BN24-1  
QUANTIFICATION OF INTERNAL LOAD IN WHEELCHAIR RUGBY COMPETITION: A PRELIMINARY STUDY  
PENA, L.G.S. et al [Brazil]  
17:00 OP-BN24-2  
CARDIAC OUTPUT DETERMINANTS DURING EXERCISE IN PARALYMPIC ATHLETES (PA) WITH A LOCOMOTOR IMPAIRMENT  
Bernardi, M. et al [Italy]  
17:15 OP-BN24-3  
CURRENT PERFORMANCE TESTING IN ELITE PARALYMPICS AUSTRIAN ALPINE SKI RACERS  
Raschner, C. et al [Austria]  
17:30 OP-BN24-4  
DIFFERENCES IN BODY COMPOSITION IN VARIOUS WHEELCHAIR SPORTS  
Flueck, J. [Switzerland]  
17:45 OP-BN24-5  
KINETIC AND KINEMATIC CHARACTERISTICS OF PIVOTING STRATEGIES FOR WHEELCHAIR BASKETBALL PLAYERS  
Rupf, R. et al [Canada]  
18:00 OP-BN24-6  
EXPANSION OF LOWER-LIMB MUSCLE REPRESENTATIONS IN A PARALYMPIC ARCHER WITH CONGENITAL AMPUTATION OF BOTH ARMS  
Nakagawa, K. et al [Japan]



## IS-SH07

## Terrace 2B

## Economic, sociological, pedagogical and ethical approaches to e-sports

Chair(s):

Hedenborg, S. [Sweden]

16:45 IS-SH07-1

THE RECEPTION OF ESPORTS AMONG GERMAN STUDENTS, AND PEDAGOGICAL CONSIDERATIONS  
Hofmann, A.R. [Germany]

17:15 IS-SH07-2

E-SPORT AND DIGITALISATION AS A TOOL FOR (PHYSICAL) LEARNING IN SCANDINAVIA  
Radmann, A. [Norway]

17:45 IS-SH07-3  
ACTORS AND INTERESTS IN THE ESPORT ECO SYSTEM

Fritz, G. et al [Germany]

## Friday, July 5

## 18:30 - 20:00

## IS-PM09

## Congress Hall

## Imaging the future of elite sports with metabolic Magnetic Resonance innovations

Chair(s):

Derave, W. [Belgium]

18:30 IS-PM09-1

PROTON, PHOSPHOROUS, AND CARBON MAGNETIC RESONANCE SPECTROSCOPY TECHNIQUE (MRS) FOR MONITORING OF TRAINING AND PERFORMANCE IN ATHLETES  
Takahashi, H. [Japan]

19:00

IS-PM09-2

NON-INVASIVE ASSESSMENT OF MUSCLE FIBER TYPOLOGY BY PROTON MAGNETIC RESONANCE SPECTROSCOPY IN ELITE ATHLETES

Derave, W. [Belgium]

19:30 IS-PM09-3

THE APPLICATION OF MRS-BASED MEASUREMENTS FROM THE LAB TO THE POOL, TRACK, AND FIELD  
Minahan, C. [Australia]

## IS-PM10

## Panorama Hall

## The masters athlete: Performance, recovery and health considerations [Applied track]

Chair(s):

Borges, N. [Australia]

18:30 IS-PM10-1

PHYSICAL PERFORMANCE OF MASTERS ATHLETES  
Lepers, R. [France]

19:00 IS-PM10-2

POST-EXERCISE RECOVERY IN MASTERS ATHLETES  
Borges, N. [Australia]

19:30 IS-PM10-3

HEALTH BENEFITS AND CONSIDERATIONS FOR MASTERS ATHLETES  
Piacentini, M.F. [Italy]

## OP-PM41

## South Hall 1A

## Nutrition: Amino acids and proteins

Chair(s):

Breen, L. [United Kingdom]

Hansen, M. [Denmark]

18:30 OP-PM41-1

HIGH-DOSE LEUCINE SUPPLEMENTATION DOES NOT ATTENUATE FUNCTIONAL AND METABOLIC DECLINES FOLLOWING 7-DAYS OF UNILATERAL

KNEE IMMOBILISATION IN YOUNG HEALTHY MALES  
Edwards, S. et al [United Kingdom]

18:45 OP-PM41-2

DOES HABITUATION TO A HIGH PROTEIN DIET INFLUENCE WHOLE BODY PROTEIN KINETICS IN A FASTED AND POSTPRANDIAL STATE?

Højfeldt, G. et al [Denmark]

19:00 OP-PM41-3

EFFECTS OF WHEY PROTEIN SUPPLEMENTATION AND RESISTANCE EXERCISE ON 24-H ENERGY EXPENDITURE AND SUBSTRATE OXIDATION IN HEALTHY OLDER MEN

Griffen, C. et al [United Kingdom]

19:15 OP-PM41-4

INFLUENCE OF RESISTANCE TRAINING AND COLLAGEN PEPTIDE SUPPLEMENTATION ON BODY COMPOSITION AND MUSCLE STRENGTH IN PRE-MENOPAUSAL WOMEN

Dressler, P. et al [Germany]

19:30 OP-PM41-5

PROTEIN DIGESTION AND AMINO ACID ABSORPTION ARE COMPROMISED IN OLDER COMPARED WITH YOUNG ADULTS

Gorissen, S.H.M. et al [Netherlands]

19:45 OP-PM41-6

EFFECTS OF LOW OR HIGH AMOUNTS OF DIETARY PROTEIN AND RESISTANCE TRAINING ON MUSCLE QUALITY OF OLDER ADULTS: A RANDOMIZED CONTROLLED TRIAL

Unterberger, S. et al [Austria]

## OP-PM47

## South Hall 1B

## Cardiovascular physiology II

Chair(s):

Périard, J. [Australia]

George, K. [United Kingdom]

18:30 OP-PM47-1

ACTIVE AND PASSIVE HEAT ACCLIMATION, IN AIR OR WATER, PROVIDE SIMILAR SHORT-TERM HEAT ADAPTATION

Kissling, L.S. et al [New Zealand]

18:45

OP-PM47-2

A COMPARISON OF NEXFIN HD MONITOR AND IMPEDANCE CARDIOGRAPHY TO ASSESS STROKE VOLUME AFTER EXERCISE

Mulliri, G. et al [Italy]

19:00 OP-PM47-3

NO SIGNIFICANT DIFFERENCE BETWEEN VO<sub>2</sub>MAX DETERMINED DURING AN INCREMENTAL OR A MAXIMAL 2K TEST

Gam, S. [Denmark]

19:15 OP-PM47-4

OXYGEN UPTAKE KINETICS ANALYSIS REVEALS REDUCED VENOUS RETURN AND SLOW MUSCLE AEROBIC METABOLISM IN PATIENTS WITH VENOUS OBSTRUCTION AND PATIENTS WITH PERIPHERAL ARTERIAL OBSTRUCTION

Reuveny, R. et al [Israel]

19:30 OP-PM47-5

CENTRAL AND PERIPHERAL BLOOD PRESSURE (BP) AFTER A ACUTE BOUT OF HIGH INTENSITY INTERVAL TRAINING (HIIT) AND MODERATE INTENSITY CONTINUOUS TRAINING (MICT) IN YOUNG WOMEN WITH OBESITY

Okawa, R.T.P. et al [Brazil]

## OP-PM55

## South Hall 2A

## Health and fitness: Sedentary lifestyle

Chair(s):

Nosaka, K. [Australia]

Kadi, F. [Sweden]

18:30 OP-PM55-1

LONGITUDINAL ASSOCIATION OF SEDENTARY TIME AND PHYSICAL ACTIVITY WITH QUALITY OF LIFE IN WOMEN WITH FIBROMYALGIA: THE AL-ÁNDALUS PROJECT

Gavilán-Carrera, B. et al [Spain]

18:45 OP-PM55-2

CHANGES IN SEDENTARY TIME AND PHYSICAL ACTIVITY OVER 2- AND 5-YEAR FOLLOW-UP ARE ASSOCIATED WITH BODY COMPOSITION PARAMETERS IN WOMEN WITH FIBROMYALGIA: THE AL-ÁNDALUS

PROJECT

Segura-Jiménez, V. et al [Spain]

19:00 OP-PM55-3

RELATIVE HANDGRIP STRENGTH IS INVERSELY ASSOCIATED WITH MORTALITY IN AN URBAN KOREAN POPULATION: FINDINGS FROM THE KOREAN GENOME AND EPIDEMIOLOGY STUDY (KOGES)

Park, S.H. et al [Korea, South]

19:15 OP-PM55-4

RELATIONSHIPS BETWEEN PHYSICAL ACTIVITY AND SEDENTARY TIME AND DEPRESSIVE SYMPTOM IN WORKERS: A 4-YEAR PROSPECTIVE STUDY

Liu, N. et al [Japan]

19:30 OP-PM55-5

SMART MOVING: SITTING BEHAVIOUR AND HABITUAL PHYSICAL ACTIVITY LEVEL OF UNIVERSITY STUDENTS IN GERMANY

Hoffmann, S.W. et al [Germany]

## OP-PM56

## South Hall 2B

## Hypoxia II

Chair(s):

AINSLIE, P. [Canada]

Pilz-Burstein, R. [Israel]

18:30 OP-PM56-1

EXERCISE-INDUCED HYPOXEMIA EXHIBITED BY ATHLETES AT SEA LEVEL LEADS TO SPECIFIC ADAPTATIONS IN MUSCLE AND CEREBRAL OXYGENATION DURING EXERCISE IN NORMOXIC AND HYPOXIC CONDITIONS

Raberin, A. et al [France]

18:45 OP-PM56-2

FIVE-DAY INTERMITTENT HYPOXIC TRAINING IMPROVES RUNNING ECONOMY AND PERFORMANCE IN WELL-TRAINED DISTANCE RUNNERS

Tanjil, F. et al [Japan]

19:00 OP-PM56-3

EFFECT OF INTERMITTENT HYPOXIC RESISTANCE TRAINING (IHRT) ON MORPHOLOGICAL AND STRENGTH ADAPTATIONS AND ACUTE RESPONSES-

# Oral & Invited Presentations

A SINGLE-BLIND RANDOMIZED CONTROLLED TRIAL  
Schäfer, R. et al [Germany]

19:15 OP-PM56-4

PSYCHO-PHYSIOLOGICAL RESPONSES TO PERCEPTUALLY-REGULATED INTERVAL RUNS IN HYPOXIA AND NORMOXIA

Hobbins, L. et al [United Kingdom]

## IS-BN06

### North Hall

#### (Im)balance of muscle and tendon adaptation in high level sports

Chair(s):

Legerlotz, K. [Germany]

Mersmann, F. [Germany]

18:30 IS-BN06-1

TENDON RESPONSE TO LOADING  
Magnusson, P. [Denmark]

19:00 IS-BN06-2

IMBALANCED MUSCLE AND TENDON ADAPTATION IN YOUTH ATHLETES

Mersmann, F. [Germany]

19:30 IS-BN06-3

DISCORDANCE IN MUSCLE AND TENDON ADAPTATION IN ELITE TRACK AND FIELD ATHLETES: A LONGITUDINAL INVESTIGATION OVER FOUR YEARS  
Karamanidis, K. et al [United Kingdom]

## OP-BN25

### Club A

#### Sports physiotherapy: Backpain

Chair(s):

Giardina, M. [Italy]

18:30 OP-BN25-1

BENEFITS OF A 4-WEEK FUNCTIONAL RESTORATION PROGRAM IN CHRONIC LOW BACK PAIN PATIENTS: FOCUS ON THE AEROBIC METABOLISM RESPONSES DURING TRUNK EXTENSION EXERCISE  
Anthierens, A. et al [France]

18:45 OP-BN25-2

THE EFFECTS OF WHOLE BODY ELEKTROMYOSTIMULATION (WB-EMS) TRAINING IN COMPARISON TO A MULTIMODAL LOW BACK PAIN CONCEPT – A CLINICAL INTERVENTION TRIAL IN PATIENTS WITH CHRONIC BACK PAIN

Konrad, K.L. et al [Germany]

19:00 OP-BN25-3

CLINICAL OUTCOME OF ISOLATED CERVICAL EXTENSION RESISTANCE EXERCISE FOR PATIENTS WITH CHRONIC NECK PAIN AND SPINE DEGENERATION  
Löscher, A. et al [Germany]

19:15 OP-BN25-4

SAGITTAL TRUNK-PELVIC POSITION COMPARISON BETWEEN RELAXED-STANDING, ACTIVE STRAIGHT-STANDING, AND ACTIVE-KNEELING POSTURES IN ACROBATIC ATHLETES

McNeal, J.R. et al [United States]

19:30 OP-BN25-5

DYNAMIC FACTORS OF THE LUMBAR JOINT FORCE DURING GOLF SWING  
Takagi, T. [Japan]

19:45 OP-BN25-6

CROSS SECTIONAL AREA OF THE PARASPINAL MUSCLES, MUSCLE STRENGTH AND LOW BACK PAIN AMONG FIGHTER PILOTS: A 5-YEAR FOLLOW-UP  
Honkanen, T. [Finland]

## OP-MI14

### Club E

#### Ageing II

Chair(s):

Narici, M. [Italy]

Schmitz, K. [United States]

18:30 OP-MI14-1

THE EFFECTS OF EXERCISE TRAINING INTERVENTION ON FUNCTIONAL CAPACITY IN OLDER COMMUNITY-DWELLING MEN AND WOMEN USING INTELLIGENT TECHNOLOGY CONCEPT

Hautala, A.J. et al [Finland]

18:45 OP-MI14-2

ORTHOPAEDIC SUPPORTS WITH HEATING ELEMENTS INCREASE THE THRESHOLD SENSITIVITY OF REFLEX EXCITABILITY IN YOUNG AND OLD POPULATION  
Brazaitis, M. et al [Lithuania]

19:00 OP-MI14-3

THE TIME COURSE OF TENDON AND MUSCLE ADAPTATIONS TO MODERATE-LOAD ECCENTRIC VS CONCENTRIC RESISTANCE EXERCISE IN YOUNG AND OLDER MALES

Quinlan, J.I. et al [United Kingdom]

19:15 OP-MI14-4

COMPARISON OF AGILITY VERSUS TRADITIONAL STRENGTH AND BALANCE TRAINING FOR SENIORS: A RANDOMIZED CONTROLLED TRIAL  
Lichtenstein, E. et al [Switzerland]

19:30 OP-MI14-5

RECREATIONAL TEAM HANDBALL FOR MIDDLE-AGED AND OLDER SEDENTARY MEN IS A HIGH-DEMANDING EXERCISE MODE REGARDLESS OF THE GAME FORMAT – SMALL-SIDED OR FORMAL  
Carneiro, I. et al [Portugal]

## OP-BN26

### Club H

#### Sport technology IV

Chair(s):

Baltzopoulos, B. [United Kingdom]

Alegre, L. [Spain]

18:30 OP-BN26-1

THE MECHANICAL PROPERTIES OF TREADMILLS DO NOT REPRESENT THOSE OF OTHER SURFACES TYPICALLY USED FOR SPORTS PRACTICE

Colino, E. et al [Spain]

18:45 OP-BN26-2

INDIVIDUAL FLEXION STIFFNESS VERSUS MANUFACTURERS' FLEX INDEX OF SKI BOOTS

Immmler, L. et al [Austria]

19:00 OP-BN26-3

THE INTERPLAY BETWEEN FOOTWEAR TYPES AND EXERCISE-INDUCED FATIGUE DO NOT ALTER RUN-

NING ECONOMY

Basset, F. et al [Canada]

19:15 OP-BN26-4

EFFECTS OF COMPRESSION GARMENT POSITION ON HEALTHY ADULTS' KNEE JOINT PROPRIOCEPTION  
Zhang, L.Y. et al [Japan]

19:30 OP-BN26-5

NON-MOTORIZED TREADMILL SPRINTING POWER IS RELATED TO OVER-GROUND SPRINTING PERFORMANCE IN ELITE TEAM SPORTS ATHLETES

Scharner, M. et al [Austria]

19:45 OP-BN26-6

TESTING OF A 3D VIDEO ENVIRONMENT FOR VOLLEYBALL COACHES

Lombard, G. et al [Belgium]

## OP-PM53

### Terrace 2A

#### Healthy and fitness: Clinical populations II

Chair(s):

Heazlewood, I. [Australia]

Ara, I. [Spain]

18:30 OP-PM53-1

IS THERE A FUNCTIONAL RELATIONSHIP BETWEEN THE POLYMORPHISMS GENOTYPES OF THE MITOCHONDRIAL BIOGENESIS PATHWAY AND MTDNA COPY NUMBERS IN HIGH LEVEL PHYSICAL CAPACITY MEN? A PILOT STUDY

Sánchez-Lorente, I.M. et al [Spain]

18:45 OP-PM53-2

THE IMPACT OF ACUTE AEROBIC EXERCISE ON MICRORNAS ASSOCIATED WITH CARDIOVASCULAR HEALTH: A PILOT STUDY

Peters, R. et al [United Kingdom]

19:00 OP-PM53-3

INFLUENCE OF APOE POLYMORPHISM AND PHYSICAL ACTIVITY ON THE WELL-BEING OF HUMAN ERYTHROCYTES

Daniele, S. et al [Italy]

19:15 OP-PM53-4

RESISTANCE TRAINING AS POTENTIAL THERAPEUTIC INTERVENTION IN TYPE 2 DIABETES MELLITUS: A META-ANALYSIS OF RANDOMIZED CONTROL TRIALS  
Acosta-Manzano, P. et al [Spain]

19:30 OP-PM53-5

CARDIORESPIRATORY TOLERANCE TO MAXIMUM EXERCISE IN INDIVIDUALS WITH INTELLECTUAL DISABILITY WITH AND WITHOUT DOWN SYNDROME INVOLVED IN COMPETITIVE ADAPTED FOOTBALL  
Barrios, C. et al [Spain]

## OP-PM54

### Terrace 2B

#### Sport injuries and orthopedics II

Chair(s):

Impellizzeri, F. [Australia]

September, A. [South Africa]

18:30 OP-PM54-1

SHOULD BALANCE AND JUMP PERFORMANCE ASSESSMENT OF CHRONIC LATERAL ANKLE SPRAINS BE PERFORMED UNDER FATIGUE?

Karkatselou, A. et al [Greece]

18:45 OP-PM54-2

QUADRICEPS MUSCLE SIZE AND KNEE FUNCTION IN LONG TERM AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION

HARPUT, G. et al [Turkey]

19:00 OP-PM54-3

THE EFFICACY OF CONTRALATERAL MUSCLE REHABILITATION EXERCISE ON QUADRICEPS PERFORMANCE FOLLOWING ANTERIOR CRUCIATE LIGAMENT (ACL) RECONSTRUCTION

Minshall, C. et al [United Kingdom]

19:15 OP-PM54-4

EXTERNAL TRAINING-LOAD PRIOR TO MUSCLE, TENDON AND LIGAMENT INJURIES IN A LARGE COHORT OF PROFESSIONAL SOCCER PLAYERS

Enright, K. et al [United Kingdom]

19:30 OP-PM54-5

SCAPULAR 3D KINEMATICS DURING FUNCTIONAL SPIRAL-DIAGONAL ARM MOVEMENT. CLINICAL

IMPLICATIONS ON SHOULDER REHABILITATION OF THE OVERHEAD ATHLETE  
Pascoal, A. et al [Portugal]

## Saturday, July 6

08:00 - 09:30

### IS-PM11

#### Congress Hall

##### Reasons and remedies for the age-related decline in skeletal muscle adaptability

Chair(s):  
Mackey, A. [Denmark]  
08:00 IS-PM11-1  
PHYSIOLOGICAL CONTRIBUTORS TO BLUNTED HYPERTROPHIC RESPONSES TO RESISTANCE EXERCISE TRAINING  
Phillips, B.E. [United Kingdom]  
08:30 IS-PM11-2  
UNDERSTANDING INJURIES LINKED TO RUNNING IN DIFFERENT POPULATIONS  
Dixon, S. [United Kingdom]  
09:00 IS-PM11-3  
PRIMING ELDERLY SKELETAL MUSCLE FOR HEAVY RESISTANCE TRAINING  
Mackey, A. et al [Denmark]

### OP-PM42

#### Panorama Hall

##### Nutrition: Other supplements

Chair(s):  
Basset, F. [Canada]  
Shannon, O. [United Kingdom]  
08:00 OP-PM42-1  
THE EFFECT OF CAFFEINE SUPPLEMENTATION ON SUBSEQUENT SLEEP QUALITY IN SUB-ELITE RUGBY LEAGUE PLAYERS  
Dascombe, B.J. et al [Australia]  
08:15 OP-PM42-2  
SODIUM CITRATE INGESTION PROTOCOL IMPACTS INDUCED ALKALOSIS, GASTROINTESTINAL SYMPTOMS AND PALATABILITY.  
Urwin, C.S. et al [Australia]  
08:30 OP-PM42-3  
THE USE OF DIETARY SUPPLEMENTS AMONG ELITE FEMALE SOCCER PLAYERS: A SURVEY OF CURRENT PRACTICES  
Abreu, R. et al [Portugal]  
08:45 OP-PM42-4  
BEET ON ALPS: EFFECTS OF DIETARY NITRATE SUPPLEMENTATION ON SKELETAL MUSCLE FRACTIONAL O<sub>2</sub> EXTRACTION DURING SUBMAXIMAL EXERCISE IN HYPOBARIC HYPOXIA  
Rasica, L. et al [Italy]  
09:00 OP-PM42-5  
CATECHIN-RICH GREEN TEA INTAKE REDUCES EXERCISE-INDUCED BLOOD PRESSURE ELEVATION AND ENHANCES EXECUTIVE FUNCTION  
Tsukamoto, H. et al [Japan]  
09:15 OP-PM42-6  
EFFECTS OF SALVIA MILTIORRHIZA EXTRACT SUPPLEMENTATION ON CARDIAC BIOMARKERS AFTER HIGH INTENSITY INTERVAL EXERCISE.  
FANG, C.C. et al [Taiwan]

### IS-EX03

#### South Hall 1A

##### CSSS-ECSS Exchange symposium: Support system for elite athletes and public health

Chair(s):  
Zhang, L. [China]  
Tian, Y. [China]  
08:45 IS-EX03-1  
THE EXPERIMENTAL STUDIES ON THE LATEST REFORMS FOR TABLE TENNIS  
XIAO, D. [China]  
09:15 IS-EX03-2  
THE EFFECT OF EXERCISE, DIETARY RESTRICTION AND HYPOXIA ON BLOOD LIPID IN OBESE PEOPLE  
Zhang, L. [China]  
09:30 IS-EX03-3  
THE EFFECT OF EXERCISE AND HYPOXIA ON INSULIN SENSITIVITY  
Dela, F. [Denmark]

### OP-PM48

#### South Hall 1B

##### Cardiovascular physiology III

Chair(s):  
Hamlin, M. [New Zealand]  
08:00 OP-PM48-1  
CHARACTERISING CEREBRAL HAEMODYNAMIC OSCILLATIONS DURING RUNNING  
Imi, G. et al [United Kingdom]  
08:15 OP-PM48-2  
VAGAL-RELATED HEART RATE VARIABILITY, BUT NOT ITS CO-EFFICIENT OF VARIATION, INDICATES IMPAIRED EXERCISE PERFORMANCE DURING FUNCTIONAL OVERREACHING  
Bellenger, C. [Australia]

08:30 OP-PM48-3  
CARDIORESPIRATORY RESPONSE OF PARAMEDICS TO WORKLOAD IN DAY AND NIGHT SHIFTS  
Fenger, A. et al [Germany]  
08:45 OP-PM48-4  
ACUTE EFFECTS OF HIGH INTENSITY INTERVAL TRAINING (HIIT) VS. MODERATE INTENSITY CONTINUOUS TRAINING (MICT) ON ARTERIAL STIFFNESS AND WAVE REFLECTION IN YOUNG OBESE WOMEN  
Lopes, W.A. et al [Brazil]  
09:00 OP-PM48-5  
CARDIOVASCULAR PHYSIOLOGY FOLLOWING REPEATED MAXIMAL EXERCISE IN MYALGIC ENCEPHALOMYELITIS  
Hodges, L. [New Zealand]  
09:15 OP-PM48-6  
EFFECTS OF ISOMETRIC RESISTANCE TRAINING AND DETRAINING ON AMBULATORY BLOOD PRESSURE AND MORNING BLOOD PRESSURE SURGE IN YOUNG NORMOTENSIVES  
Baross, A.W. et al [United Kingdom]

### OP-BN27

#### South Hall 2A

##### Neuromuscular fatigue II

Chair(s):  
Périard, J. [Australia]  
Hendy, A. [Australia]  
08:00 OP-BN27-1  
CENTRAL FATIGUE KINETICS IN KNEE EXTENSOR MUSCLES DURING A SUSTAINED LOW-INTENSITY CONTRACTION TO TASK FAILURE.  
Souron, R. et al [France]  
08:15 OP-BN27-2  
THE EFFECT OF FATIGUE ON THROWING PERFORMANCE AND NEUROMUSCULAR ACTIVATION IN ELITE FEMALE ATHLETES IN AQUATIC SPORTS  
King, S. et al [Canada]  
08:30 OP-BN27-3  
FATIGUE AND METABOLIC RESPONSES TO AGILITY-LIKE SPEEDCOURT SPRINT PROTOCOLS AND THEIR RELATIONSHIPS TO MARKERS OF ATHLETIC PERFOR-

MANCE IN ELITE SOCCER PLAYERS  
Raeder, C. et al [Germany]  
08:45 OP-BN27-4  
NEUROMUSCULAR FATIGUE IN SPRINT AND OLYMPIC TRIATHLON  
Lavarda, M. et al [Italy]  
09:00 OP-BN27-5  
EFFECTS OF SHORT-TERM KNEE IMMOBILISATION ON NEUROMUSCULAR FUNCTION  
Campbell, M. et al [United Kingdom]

### OP-MI15

#### South Hall 2B

##### Strength and power II

Chair(s):  
Nosaka, K. [Australia]  
Krug, J. [Germany]  
08:00 OP-MI15-1  
INTERACTION BETWEEN UPPER BODY KINEMATICS AND POWER PRODUCTION DURING BALLISTIC MEDICINE BALL THROWS  
Sayers, M. [Australia]  
08:15 OP-MI15-2  
ASSESSMENT OF FORCE-VELOCITY PROFILE IN ELITE FEMALE HANDBALL PLAYERS  
Petridis, L. et al [Hungary]  
08:30 OP-MI15-3  
TUNING MUSCLE COORDINATION PATTERNS WITH LEARNING THE POWER CLEAN  
Benio, K. et al [Japan]  
08:45 OP-MI15-4  
ASSOCIATION BETWEEN COUNTERMOVEMENT JUMP-DERIVED MARKERS OF NEUROMUSCULAR STATUS AND STRENGTH GAIN WITH CONCURRENT TRAINING  
Fyfe, J.J. et al [Australia]  
09:00 OP-MI15-5  
REST REDISTRIBUTION ATTENUATES VELOCITY AND POWER LOSS IN BACK SQUATS PERFORMED BY WOMEN  
Merrigan, J.J. et al [United States]

# Oral & Invited Presentations

09:15 OP-MI15-6  
EFFECT OF DIFFERENT TYPES OF LOADS ON THE FORCE-VELOCITY RELATIONSHIP OBTAINED DURING THE BENCH PRESS THROW EXERCISE  
Nedeljkovic, A. et al [Serbia]

## OP-BN28

### North Hall

#### Jumping and squatting

Chair(s):  
Eils, E. [Germany]  
Baltzopoulos, B. [United Kingdom]  
08:00 OP-BN28-1  
KNEE JOINT MOMENTS IN ELITE HIGH JUMPERS  
Goldmann, J.P. et al [Germany]  
08:15 OP-BN28-2  
STRETCH-SHORTENING CYCLE IN ROWING  
Held, S. et al [Germany]  
08:30 OP-BN28-3  
THE EFFECTS OF CLUSTER-SET AND TRADITIONAL-SET PAP PROTOCOLS ON VERTICAL JUMP PERFORMANCE  
Dello Iacono, A. et al [United Kingdom]  
08:45 OP-BN28-4  
TRICEPS SURAE MUSCLE-TENDON UNIT PROPERTIES IN PREADOLESCENT CHILDREN: EFFECTS OF ATHLETIC TRAINING  
Pentidis, N. et al [Germany]  
09:00 OP-BN28-5  
ARE THERE DIFFERENCES IN JUMP HEIGHT AND MUSCLE ACTIVATION PATTERN ACROSS SAND AND RIGID SURFACE SPECIFIC ATHLETES?  
Brodatzki, Y. et al [Germany]  
09:15 OP-BN28-6  
JUMP PERFORMANCE MEASUREMENTS ON RIGID AND SAND SURFACES IN A STANDARDIZED LABORATORY SETTING – USING MARKER-BASED INFORMATION TO DETECT GROUND CONTACT TIMES  
Eils, E. et al [Germany]

## OP-BN29

### Club A

#### Motor learning and motor control: Children

Chair(s):  
Franco, E. [Spain]  
08:00 OP-BN29-1  
THE ASSOCIATION BETWEEN SELF-PERCEIVED AND ACTUAL MOTOR COMPETENCE IN DRYLAND VS AQUATIC ENVIRONMENTS.  
Pratt, N. [United Kingdom]  
08:15 OP-BN29-2  
A COMPARISON OF MOTOR PERFORMANCE BETWEEN GERMAN AND CHINESE 7- TO 8-YEAR-OLD CHILDREN  
Yin, X.F. et al [China]  
08:30 OP-BN29-3  
MOTOR COMPETENCE IN SCHOOL CHILDREN IS CORRELATED WITH LEISURE TIME BUT NOT PE-CLASS ACTIVITY LEVELS  
Krijger-Hombergen, M. et al [Netherlands]  
08:45 OP-BN29-4  
NEW INSIGHT ON MOTOR BEHAVIOUR UNDERLYING FITNESS AND GRAPHO-MOTOR, FINE, AND GROSS COORDINATIVE SKILLS IN SCHOOL CHILDREN  
Bondi, D. et al [Italy]  
09:00 OP-BN29-5  
THE INFLUENCE OF SEX ON LEARNING A DYNAMIC BALANCE TASK IN PRIMARY SCHOOL-AGED CHILDREN  
Schedler, S. et al [Germany]

## OP-PM58

### Club E

#### Endurance: Winter sports

Chair(s):  
Lamberts, R. [South Africa]  
Linnamo, V. [Finland]  
08:00 OP-PM58-1  
TRAINING CHARACTERISTICS OF HIGHLY-TRAINED CROSS-COUNTRY SKIERS THROUGHOUT THE TRANSITION FROM JUNIOR TO SENIOR LEVEL  
Karlsson, Ø. et al [Sweden]  
08:15 OP-PM58-2  
THE IMPORTANCE OF PACING BEHAVIOR FOR CURRENT AND FUTURE PERFORMANCE IN JUNIOR ELITE SPEED SKATING.  
Stoter, I.K. et al [Netherlands]  
08:30 OP-PM58-3  
DEVELOPMENT OF 1500-M PACING BEHAVIOUR IN ELITE YOUTH SHORT-TRACK SPEED SKATERS: A LONGITUDINAL STUDY.  
Menting, S.G.P. et al [United Kingdom]  
08:45 OP-PM58-4  
RIFLE CARRIAGE DECREASES SPEED AT LACTATE THRESHOLD, ANAEROBIC ENERGY CONTRIBUTION AND PERFORMANCE IN BIATHLON SKIING.  
Jonsson Kårström, M. et al [Sweden]  
09:00 OP-PM58-5  
A COMPARISON BETWEEN DIFFERENT ESTIMATES OF ANAEROBIC ENERGY PRODUCTION DURING SUPRAMAXIMAL ROLLER-SKIING EMPLOYING THE DOUBLE POLING AND DIAGONAL STRIDE SUB-TECHNIQUES  
Andersson, E.P. et al [Sweden]  
09:15 OP-PM58-6  
EXTERNAL COMPRESSION TROUSERS SLIGHTLY IMPROVE SYSTEMIC HAEMODYNAMICS DURING CYCLING IN ENDURANCE-TRAINED AND UN-TRAINED MALES.  
Cotter, J.D. et al [New Zealand]

## OP-PM71

### Club H

#### Injury prevention III

Chair(s):  
Patricia, D. [Canada]  
08:00 OP-PM71-1  
INVESTIGATION OF CUMULATIVE SPORT RELATED CONCUSSIONS ON COGNITIVE PERFORMANCE AND HEMODYNAMIC RESPONSE  
Coenen, J. et al [Canada]  
08:15 OP-PM71-2  
GOALKEEPER INJURIES IN AN ELITE FOOTBALL CLUB: A DIFFERENT PATTERN COMPARED TO FIELD PLAYERS  
Larruskain, J. et al [Spain]  
08:30 OP-PM71-3  
ASYMMETRY OF THE INTERNAL OBLIQUE IN ADOLESCENT TENNIS PLAYERS WITH FEMOROACETABULAR IMPINGEMENT: A VOLUMETRIC MRI STUDY  
Kux, J. et al [Germany]  
08:45 OP-PM71-4  
THE ASSOCIATIONS OF RS107946 POLYMORPHISM IN THE COL1A1 WITH FATIGUE-FRACTURE AND MUSCLE INJURY IN JAPANESE ATHLETES  
Miyamoto-Mikami, E. et al [Japan]  
09:00 OP-PM71-5  
PRE-SEASON HIP/GROIN STRENGTH AND HAGOS SCORES ARE ASSOCIATED WITH PROSPECTIVE INJURY IN PROFESSIONAL FOOTBALL PLAYERS  
Bourne, M. et al [Australia]  
09:15 OP-PM71-6  
INJURY EPIDEMIOLOGY AND IMPACT OF INJURIES IN THE HYUNDAI A-LEAGUE.  
Lu, D. et al [Australia]

## IS-MI05

### Terrace 2A

#### Consumer digital technologies for health and sports performance

Chair(s):  
Abt, G. [United Kingdom]  
08:00 IS-MI05-1  
CONSUMER DIGITAL TECHNOLOGIES FOR HEALTH AND SPORT: GLOBAL AND FUTURE PERSPECTIVES  
Abt, G. [United Kingdom]  
08:30 IS-MI05-2  
WEARABLE TECHNOLOGY FOR HEALTH  
Benson, A. [Australia]  
09:00 IS-MI05-3  
CONSUMER DIGITAL TECHNOLOGIES FOR SPORTS PERFORMANCE MEASUREMENT  
Balsalobre-Fernández, C. [Spain]

## IS-SH08

### Terrace 2B

#### 'Sport' - Public health or public harm?

Chair(s):  
Mansfield, L. [United Kingdom]  
08:00 IS-SH08-1  
IS SPORT BAD FOR OUR (PUBLIC) HEALTH?  
Weed, M. [United Kingdom]  
08:30 IS-SH08-2  
IS SPORT POLICY BAD FOR PUBLIC HEALTH?  
Kay, T. [United Kingdom]  
09:00 IS-SH08-3  
THE ROLE OF VOLUNTARY SPORTS ORGANISATIONS IN DELIVERING PHYSICAL ACTIVITY ON PRESCRIPTION (PAOP) – THE CASE OF SWEDEN  
Aggestål, A. [Sweden]



## Saturday, July 6

09:45 - 11:15

IS-PM12

### Congress Hall

**Cardiac, vascular and cerebrovascular adaptation to hypoxia at rest and during exercise; lessons from high altitude natives**

Chair(s):

Stembridge, M. [United Kingdom]

Cogo, A. [Italy]

09:45 IS-PM12-1

CARDIAC STRUCTURE, ABSOLUTE BLOOD VOLUME AND EXERCISE CAPACITY IN HIGH ALTITUDE NATIVES  
Stembridge, M. [United Kingdom]

10:15 IS-PM12-2

THE RELATIONSHIP BETWEEN VASCULAR DYSFUNCTION, HIGH ALTITUDE AND OCCUPATIONAL PHYSICAL ACTIVITY IN SHERPA  
Pratali, L. [Italy]

10:45 IS-PM12-3

CEREBRAL OXYGEN DELIVERY AND METABOLISM AT REST AND DURING EXERCISE IN ACCLIMATISED LOWLANDERS AND HIGH ALTITUDE NATIVES  
AINSLIE, P. [Canada]

IS-MI01

### Panorama Hall

**The neuroscience and interpretation of placebo effects in sports and exercise**

Chair(s):

Roelands, B. [Belgium]

09:45 IS-MI01-1

THE NEUROBIOLOGY OF THE PLACEBO EFFECT  
Benedetti, F. [Italy]

10:15 IS-MI01-2  
POTENTIAL MECHANISMS OF PLACEBO AND NO-CEBO EFFECTS IN SPORT AND EXERCISE  
Beedie, C. [United Kingdom]

10:45 IS-MI01-3  
THE ROLE AND IMPACT OF THE PLACEBO EFFECT IN SPORT PERFORMANCE AND COMPETITION  
Hettinga, F. [United Kingdom]

OP-PM57

### South Hall 1B

**Training and testing: Endurance**

Chair(s):

Gabrys, T. [Czech Republic]

Skorski, S. [Germany]

09:45 OP-PM57-1

INTEGRATING POST-EXERCISE SAUNA BATHING INTO THE TRAINING PROGRAM OF MIDDLE-DISTANCE RUNNERS ENHANCES TEMPERATE EXERCISE PERFORMANCE  
Kirby, N. et al [United Kingdom]

10:00 OP-PM57-2

BREATH- VERSUS TIME-AVERAGING STRATEGIES FOR VO2MAX ASSESSMENT: MATHEMATICAL MODELLING AND RELIABILITY  
MARTIN-RINCON, M. et al [Spain]

10:15 OP-PM57-3

CAN THE SELF-PACED, CYCLE-BASED MAXIMAL OXYGEN UPTAKE TEST PRODUCE HIGHER VO2MAX VALUES THAN STANDARD GRADED EXERCISE TEST PROTOCOL?  
Struhár, I. et al [Czech Republic]

10:30 OP-PM57-4

RELATIONSHIP BETWEEN RUNNING PERFORMANCE AND ENERGY METABOLIC CAPACITIES IN MIDDLE-DISTANCE RUNNERS  
MITSUKA, T. et al [Japan]

10:45 OP-PM57-5

PACING STRATEGY DETERMINANTS DURING A RUN LEG OF SIMULATED OLYMPIC-DISTANCE TRIATHLON: RELATIONSHIP BETWEEN PACING INDEX AND CLASSIC PHYSIOLOGICAL VARIABLES  
Aoyagi, A. et al [Japan]

11:00 OP-PM57-6  
INFLUENCE OF MENSTRUAL CYCLE AND ORAL CONTRACEPTIVES ON RATING OF PERCEIVED EXERTION THROUGHOUT AN ENDURANCE EXERCISE IN FEMALE ATHLETES.  
Barba-Moreno, L. et al [Spain]

OP-MI16

### South Hall 2A

**Running**

Chair(s):

Piacentini, M. [Italy]

Nicol, C. [France]

09:45 OP-MI16-1

ANALYSIS OF THE PHYSIOLOGICAL COMPETITION ZONES IN A MOUNTAIN MARATHON RACE REGARDING HEART RATE AND RACE SPEED, AND NUTRITIONAL APPLICATIONS  
Ruiz de Arexabaleta, X. et al [Spain]

10:00 OP-MI16-2

DOSE-RESPONSE EFFECTS OF WEIGHTED VEST RUNNING ON RUNNING ECONOMY  
Kilding, A.E. et al [New Zealand]

10:15 OP-MI16-3

PHYSIOLOGICAL FACTORS RELATED TO UPHILL VS DOWNHILL RUNNING TIME-TRIAL PERFORMANCE  
Lemire, M. et al [France]

10:30 OP-MI16-4

RUNNING ECONOMY AND HEART RATE ARE SIMILAR AT MATCHED RPE ON A TREADMILL AND OVERGROUND  
Buckley, J.D. et al [Australia]

10:45 OP-MI16-5

EFFECTS OF CARBOHYDRATE INTAKE DURING A 1-H HEAVY INTENSITY CYCLING EXERCISE ON SUBSEQUENT RUNNING ECONOMY – A SINGLE-BLINDED PILOT STUDY  
Triska, C. et al [Austria]

OP-PM66

### South Hall 2B

**Physiology: Muscle metabolism**

Chair(s):

Derave, W. [Belgium]

Kitaoka, Y. [Japan]

09:45 OP-PM66-1

MUSCLE METABOLITES AFTER A SOCCER GAME IN FEMALE ATHLETES: IMPLICATIONS FOR SPRINT PERFORMANCE  
Ermidis, G. et al [Greece]

10:00 OP-PM66-2

PERIPHERAL ADAPTATIONS TO ENDURANCE TRAINING IMPROVES OXYGEN DELIVERY AND OXYGEN EXTRACTION – THE EFFECT OF ONE-LEGGED TRAINING  
Skattebo, Ø. et al [Norway]

10:15 OP-PM66-3

AN ACUTE BOUT OF EXERCISE DOWNREGULATES THIOREDOXIN-INTERACTING PROTEIN (TXNIP) EXPRESSION IN RAT SKELETAL MUSCLE  
Ra, S.G. et al [Japan]

10:30 OP-PM66-4

EFFECTS OF DIET CHANGE AND LADDER CLIMBING EXERCISE ON HYPERTROPHY AND AUTOPHAGY OF CARDIAC MUSCLE IN HIGH-FAT INDUCED OBESE RATS  
Kim, K. et al [Korea, South]

10:45 OP-PM66-5

EFFECTS OF DIET CHANGE AND LADDER CLIMBING EXERCISE ON HYPERTROPHY AND AUTOPHAGY OF CARDIAC MUSCLE IN HIGH-FAT INDUCED OBESE RATS  
Kim, K. et al [Korea, South]

10:00 OP-MI18

THE DIFFERENCE IN MUSCLE OXYGENATION BETWEEN AGONIST AND ANTAGONIST MUSCLES DURING WEIGHT-LIFTING EXERCISE  
Ryan-Stewart, H.J. et al [United Kingdom]

10:00 OP-MI18-1

FUNCTIONAL AND STRUCTURAL EFFECTS OF SUB-MAXIMAL AND SUPRAMAXIMAL LOADS DURING ECCENTRIC-OVERLOAD RESISTANCE TRAINING IN THE TRAINED AND CONTRALATERAL LEGS  
Maroto-Izquierdo, S. et al [Spain]

10:00 OP-MI18-2

RELATIONSHIP BETWEEN INTERNAL AND EXTERNAL TRAINING VARIABLES IN AN ELITE NETBALL TEAM  
Simpson, M. et al [Australia]

10:30 OP-MI18-3

PHYSICAL DEMANDS IN TEAM HANDBALL – DIFFERENCES BETWEEN PLAYING LEVEL  
Luteberget, L. et al [Norway]

10:45 OP-MI18-4

GLOBAL MOTION VISUALISATION FOR DETECTION OF DECEPTIVE MOTION IN RUGBY  
Lynch, S.D. et al [France]

11:00 OP-MI18-5

SPINE KINETICS IN SPORTS WITH REPETITIVE OVER-HEAD ACTIVITIES  
Fett, D. et al [Germany]

BALL PLAYERS

Wagner, H. et al [Austria]

10:00 OP-MI18-2

MATCH-PLAY ACTIVITY PROFILE OF MALE AUSTRIAN LACROSSE PLAYERS  
HAUER, R. et al [Austria]

10:15 OP-MI18-3

RELATIONSHIP BETWEEN INTERNAL AND EXTERNAL TRAINING VARIABLES IN AN ELITE NETBALL TEAM  
Simpson, M. et al [Australia]

10:30 OP-MI18-4

PHYSICAL DEMANDS IN TEAM HANDBALL – DIFFERENCES BETWEEN PLAYING LEVEL  
Luteberget, L. et al [Norway]

10:45 OP-MI18-5

GLOBAL MOTION VISUALISATION FOR DETECTION OF DECEPTIVE MOTION IN RUGBY  
Lynch, S.D. et al [France]

11:00 OP-MI18-6

SPINE KINETICS IN SPORTS WITH REPETITIVE OVER-HEAD ACTIVITIES  
Fett, D. et al [Germany]

10:00 OP-MI18-7

RELATIONSHIP BETWEEN INTERNAL AND EXTERNAL TRAINING VARIABLES IN AN ELITE NETBALL TEAM  
Simpson, M. et al [Australia]

10:30 OP-MI18-8

PHYSICAL DEMANDS IN TEAM HANDBALL – DIFFERENCES BETWEEN PLAYING LEVEL  
Luteberget, L. et al [Norway]

10:45 OP-MI18-9

GLOBAL MOTION VISUALISATION FOR DETECTION OF DECEPTIVE MOTION IN RUGBY  
Lynch, S.D. et al [France]

11:00 OP-MI18-10

SPINE KINETICS IN SPORTS WITH REPETITIVE OVER-HEAD ACTIVITIES  
Fett, D. et al [Germany]

10:00 OP-MI18-11

RELATIONSHIP BETWEEN INTERNAL AND EXTERNAL TRAINING VARIABLES IN AN ELITE NETBALL TEAM  
Simpson, M. et al [Australia]

10:30 OP-MI18-12

PHYSICAL DEMANDS IN TEAM HANDBALL – DIFFERENCES BETWEEN PLAYING LEVEL  
Luteberget, L. et al [Norway]

10:45 OP-MI18-13

GLOBAL MOTION VISUALISATION FOR DETECTION OF DECEPTIVE MOTION IN RUGBY  
Lynch, S.D. et al [France]

11:00 OP-MI18-14

SPINE KINETICS IN SPORTS WITH REPETITIVE OVER-HEAD ACTIVITIES  
Fett, D. et al [Germany]



# Oral & Invited Presentations

- 10:15 OP-PM63-3  
INCREASE IN CROSS SECTIONAL AREA IS NOT ACCOMPANIED BY A PROPORTIONAL INCREASE OF FORCE IN SINGLE MUSCLE FIBRES OF WELL TRAINED BODY BUILDERS  
Monti, E. et al [Italy]
- 10:30 OP-PM63-4  
KINETICS OF PROTEIN SA-KLOTRO AFTER AN EC-CENTRIC EXERCISE IN YOUNG PEOPLE WITH A GOOD PHYSICAL CONDITION  
Iturriaga, T. et al [Spain]
- 10:45 OP-PM63-5  
EFFECTS OF TRIBULUS TERRESTRIS SUPPLEMENTATION ON MUSCLE STRENGTH, DELAYED ONSET MUSCLE SORENESS AND OXIDATIVE STRESS INDUCED BY HEAVY RESISTANCE EXERCISE  
Ataei, L. et al [Cyprus]
- 11:00 OP-PM63-6  
INFLUENCE OF THREE DIFFERENT REST INTERVALS BETWEEN SETS ON MECHANICAL, PHYSIOLOGICAL, AND PERCEPTUAL VARIABLES DURING A FLYWHEEL SQUAT SESSION WITH TWO INERTIAL LOADS  
Hernández-Davó, J.L. et al [Spain]

## OP-BN30

### Club E

#### Injury prevention

- Chair(s):  
Dixon, S. [United Kingdom]  
Baltzopoulos, B. [United Kingdom]
- 09:45 OP-BN30-1  
ACTIVE & SAFE CENTRAL: AN ON-LINE PLATFORM AND RESOURCE FOR THE PREVENTION OF INJURY IN SPORT AND RECREATIONAL ACTIVITY  
Pike, I. et al [Canada]
- 10:00 OP-BN30-2  
POSTURAL DYNAMICS IS ALTERED IN FEMALES WITH EXCESSIVE MEDIAL KNEE DISPLACEMENT DURING SINGLE-LEG LANDING  
VAZ, J.R. et al [Portugal]

- 10:15 OP-BN30-3  
NEURODYNAMIC SLIDERS PROMOTE FLEXIBILITY IN TIGHT HAMSTRING SYNDROME.  
De Ridder, R. et al [Belgium]
- 10:30 OP-BN30-4  
CHARACTERISTICS OF KNEE VALGUS MOTION ARE DIFFERENT BETWEEN LANDING AND SIDESTEP CUTTING TASKS IN FEMALE SOCCER PLAYERS  
Ito, W. et al [Japan]
- 10:45 OP-BN30-5  
EVALUATION OF AN ERGONOMIC PREVENTION PROGRAM TO REDUCE MUSCULOSKELETAL DISORDERS IN GERIATRIC CAREGIVERS  
Otto, A.K. et al [Germany]
- 11:00 OP-BN30-6  
A PROSPECTIVE INVESTIGATION OF THE ASSOCIATION BETWEEN ISOMETRIC MUSCLE STRENGTH AND RUNNING RELATED INJURY AMONG NOVICE AND RECREATIONAL RUNNERS.  
Dillon, S. et al [Ireland]

## OP-PM65

### Club H

#### Mixed sports

- Chair(s):  
Anderson, E. [United Kingdom]  
Heazlewood, I. [Australia]
- 09:45 OP-PM65-1  
LONG TERM EFFECTS OF MULTIPLE CONCUSSIONS ON NEUROVASCULAR COUPLING IN RETIRED CONTACT SPORT ATHLETES  
Sirant, L.W. et al [Canada]
- 10:00 OP-PM65-2  
REPEATED-SPRINT TRAINING IN HYPOXIA IN ELITE FEMALE RUGBY SEVENS  
Brocherie, F. et al [France]
- 10:15 OP-PM65-3  
NEWCOMB BALL: TRAINING EFFECT ON THE PHYSICAL FITNESS OF WOMEN AT MIDLIFE  
Tsuk, S. [Israel]

- 10:30 OP-PM65-4  
A COMPARISON OF WORKLOADS PLACED ON FIELDS, BOWLERS AND BATTERS IN A TEAM COMPETING IN THE 2018 INDIAN PREMIER LEAGUE SEASON  
Christie, C.J. et al [South Africa]

## OP-PM68

### Terrace 2A

#### Health and fitness: Brain, mental and mixed

- Chair(s):  
Araujo, D. [Portugal]  
Mello, M. [Brazil]
- 09:45 OP-PM68-1  
TRAVEL FATIGUE AND SLEEP/WAKE BEHAVIOURS OF PROFESSIONAL SOCCER PLAYERS DURING INTERNATIONAL COMPETITION  
Lastella, M. et al [Australia]
- 10:00 OP-PM68-2  
ARE COGNITIVE SKILLS IN YOUNG ADULTS AFFECTED BY A BOUT OF SUB-MAXIMAL AEROBIC EXERCISE?  
Pilz-Burstein, R. et al [Israel]
- 10:15 OP-PM68-3  
ADAPTATION VARIATION BETWEEN DOMINANT AND NON-DOMINANT UPPER LIMBS FOLLOWING SHORT-TERM STRENGTH TRAINING.  
Rowe, G. et al [Australia]
- 10:30 OP-PM68-4  
EFFECTS OF ACUTE MAXIMAL AND SUBMAXIMAL EXERCISE ON EXECUTIVE FUNCTION: A COMPARISON BETWEEN ARM AND LEG CYCLING  
Hill, M. et al [United Kingdom]
- 10:45 OP-PM68-5  
THE RISK FOR THE FEMALE ATHLETE TRIAD IN BRAZILIAN ATHLETES  
De Maria, U.P. et al [Brazil]
- 11:00 OP-PM68-6  
A GREATER RISK FOR RELATIVE ENERGY DEFICIENCY SYNDROME IN SPORTS IN CYCLISTS NEGATIVELY IMPACTS CYCLING PERFORMANCE  
Jurov, I. [Slovenia]

## OP-PM70

### Terrace 2B

#### Physical activity / inactivity II

- Chair(s):  
Song, W. [Korea, South]  
Breen, L. [United Kingdom]
- 09:45 OP-PM70-1  
16 WEEKS INCREASING STEPPING TIME SHIFTS INNATE IMMUNE FUNCTION TOWARDS A LESS PRO-INFLAMMATORY STATUS  
Hartman, Y. et al [Netherlands]
- 10:00 OP-PM70-2  
CHANGES IN PHYSICAL ACTIVITY LEVEL OVER 11 YEARS AND MORTALITY RISK: THE HUNT STUDY  
Moholdt, T. et al [Norway]
- 10:15 OP-PM70-3  
SAFETY AND FEASIBILITY OF EXERCISE FOR WOMEN WITH BREAST CANCER AND HIGH DISEASE BURDEN – THE SAFE TRIAL.  
Sandler, C.X. et al [Australia]
- 10:30 OP-PM70-4  
EFFECTS OF 6-MONTH RESISTANCE TRAINING ON QUALITY OF LIFE IN PANCREATIC CANCER PATIENTS: A RANDOMIZED CONTROLLED TRIAL  
Clauss, D. et al [Germany]
- 10:45 OP-PM70-5  
PHYSICAL ACTIVITY REDUCES CHEMOTHERAPY-RELATED METABOLIC TOXICITY IN PATIENTS WITH TESTICULAR GERM CELL TUMOR  
KRUMPOLEC, P. et al [Slovakia]

## Saturday, July 6

### 11:30 - 13:00

## IS-PM13

### Congress Hall

#### Dietary nitrate and hypoxia

- Chair(s):  
Porcelli, S. [Italy]
- 11:30 IS-PM13-1  
DIETARY NITRATE SUPPLEMENTATION IN HYPOXIA: SKELETAL MUSCLE OXYGENATION AND ENERGETICS  
Vanhatalo, A. [United Kingdom]
- 12:00 IS-PM13-2  
DIETARY NITRATE SUPPLEMENTATION IN HYPOXIA: EFFECTS ON COGNITIVE FUNCTION AND ACUTE MOUNTAIN SICKNESS  
Shannon, O.M. [United Kingdom]
- 12:30 IS-PM13-3  
EFFECTS OF DIETARY NITRATE ON EXERCISE PERFORMANCE IN CHRONIC HYPOXIA  
Porcelli, S. [Italy]

## OP-PM60

### Panorama Hall

#### Thermoregulation II

- Chair(s):  
Minahan, C. [Australia]  
Esser, K. [United States]
- 11:30 OP-PM60-1  
EVIDENCE OF RE-ACTIVATION OF 4-MONTH HEAT ACCLIMATIZATION MORE THAN 6 MONTHS LATER  
Malgouyres, A. et al [France]
- 11:45 OP-PM60-2  
VOLUNTARY HYDRATION STATUS IS MAINTAINED DURING A 5-DAY HEAT ACCLIMATION PROGRAM IMPROVING HEAT STRESS INDICATORS AND MAIN-

TAINING EXERCISE CAPACITY.  
Wardenaar, F.C.. et al [United States]

12:00 OP-PM60-3

THERMOREGULATION DURING STEADY-STATE WORK-MATCHED OR METABOLIC HEAT PRODUCTION MATCHED ECCENTRIC AND CONCENTRIC CYCLING

Burdon, C.A. et al [Australia]

12:15 OP-PM60-4

THE INFLUENCES OF SKELETAL MUSCLE TEMPERATURE ON MUSCLE DEOXYGENATION AND METABOLISM AT FIXED EXERCISE WORKLOAD

Gagnon, D.D. et al [Canada]

12:30 OP-PM60-5

TOTAL HEMOGLOBIN MASS IS AUGMENTED AFTER PROLONGED HEAT ACCLIMATION IN TRAINED CYCLISTS

Oberholzer, L. et al [Denmark]

12:45 OP-PM60-6

INFLUENCE OF CLIMATIC CONDITIONS PROJECTED FOR THE 2022 WORLD CUP IN QATAR ON SOCCER PLAYERS' PERFORMANCE OF REPEATED MAXIMUM-EFFORT EXERCISES

Chmura, P. et al [Poland]

## OP-PM61

### South Hall 1A

#### Children

Chair(s):

Franco, E. [Spain]

Benson, A. [Australia]

11:30 OP-PM61-1

DOES SELF-CHOSEN WALKING SPEED REFLECT MODERATE INTENSITY PHYSICAL ACTIVITY IN CHILDREN?

Haapala, E.A, Gao, Y. et al [Finland]

11:45 OP-PM61-2

WHEN SHOULD WE START TESTING CHILDREN FOR AEROBIC FITNESS? A LESSON LEARNED FROM HOPP LONGITUDINAL STUDY.

Mamen, A. et al [Norway]

12:00 OP-PM61-3

IS DYSFUNCTIONAL MOVEMENT RELATED TO OVERWEIGHT IN URBAN ADOLESCENTS?

Karuc, J. et al [Croatia]

12:15 OP-PM61-4

MAXIMAL VOLUNTARY CONTRACTION AND FORCE SUSTAINABILITY OF MORE THAN 8000 SUBJECTS IN TRANSITION FROM CHILDHOOD TO EARLY ADULTHOOD

Sievert, A. [Germany]

## OP-PM62

### South Hall 1B

#### Molecular biology and biochemistry: Metabolomics - Proteomics

Chair(s):

Wessner, B. [Austria]

Flück, M. [Switzerland]

11:30 OP-PM62-1

MARATHON-INDUCED ALTERATIONS IN THE HUMAN SERUM METABOLOME

Stander, Z. et al [South Africa]

11:45 OP-PM62-2

SUBJECTS WITH OBESITY HAVE DIFFERENCES IN ERYTHROCYTE FATTY ACID COMPOSITION AT BASELINE AND FOLLOWING EXERCISE AND FEEDING WHEN COMPARED TO LEAN SUBJECTS OF IDENTICAL FITNESS LEVEL

Joannis, D.R. et al [Canada]

12:00 OP-PM62-3

SIX-MONTH PHYSIOTHERAPY-EXERCISE INTERVENTION IN PATIENTS WITH IDIOPATHIC INFLAMMATORY MYOPATHY IMPROVES FATTY ACID OXIDATION IN PRIMARY MUSCLE CELLS IN VITRO.

Nemec, M. et al [Slovakia]

12:15 OP-PM62-4

THE EFFECT OF B-ALANINE SUPPLEMENTATION ON CARNOSINE AND HISTIDINE CONTENT IN THE HIPPOCAMPUS OF 14-MONTH OLD RATS

Hoffman, J. et al [United States]

12:30 OP-PM62-5

ANALYSIS OF THE MITOCHONDRIAL PROTEOME FROM HUMAN SKELETAL MUSCLE IN RESPONSE TO ENDURANCE TRAINING REVEALS VOLUME-DEPENDENT REMODELLING

Bishop, D.J. et al [Australia]

12:45 OP-PM62-6

EFFECTS OF DIFFERENT EXERCISE MODES ON THE PROTEIN EXPRESSION OF BMP-4/BMP-7 AND THERMOGENESIS RELATED PROTEINS IN ADIPOSE TISSUE OF OBESE RATS

YAN, Y. [China]

## OP-MI17

### South Hall 2A

#### Strength and power III

Chair(s):

Granacher, U. [Germany]

Narici, M. [Italy]

11:30 OP-MI17-1

EFFECTS OF WHOLE-BODY VIBRATION AND BLOOD FLOW RESTRICTION ON MUSCLE MASS, STRENGTH AND JUMP PERFORMANCE: A RANDOMIZED CONTROLLED TRIAL

Centner, C. et al [Germany]

11:45 OP-MI17-2

LESS PAIN, MORE GAIN? A COMPARISON OF CONTINUOUS VS INTERMITTENT BLOOD FLOW RESTRICTION PROTOCOLS IN ELICITING MORPHOLOGICAL AND FUNCTIONAL OUTCOMES

Davids, C. et al [Australia]

12:00 OP-MI17-3

EFFECTS OF COMBINED MAXIMAL AND REACTIVE STRENGTH TRAINING ON PERFORMANCE INDICATORS IN ENDURANCE RUNNERS

FLYNN, M.F. et al [Ireland]

12:15 OP-MI17-4

CHANGES IN THE LOCATION ON FORCE-VELOCITY RELATIONSHIP OF FORCE AND VELOCITY PERFORMED WITH THE 1RM LOAD AFTER TWO RESISTANCE TRAINING PROGRAMS DIFFERING IN SET

CONFIGURATION.

Rial-Vázquez, J. et al [Spain]

12:30 OP-MI17-5

IMPACT OF BLOOD FLOW RESTRICTION EXERCISE ON MUSCLE FATIGUE DEVELOPMENT AND RECOVERY

Behrens, M. et al [Germany]

12:45 OP-MI17-6

GREATER RATING OF PERCEIVED EXERTION DURING TRADITIONAL SETS THAN REST-REDISTRIBUTION SETS AT FAST AND SLOW VELOCITIES

Pisz, A. et al [Czech Republic]

## OP-PM64

### South Hall 2B

#### Physical activity for older people

Chair(s):

Piacentini, M. [Italy]

Schmitz, K. [United States]

11:30 OP-PM64-1

A NOVEL, INTERACTIVE, BODY-WEIGHT EXERCISE PROGRAM FOR OLDER ADULTS - IS IT EFFECTIVE?

Crognale, D. et al [Ireland]

11:45 OP-PM64-2

EFFECTS OF A LOW-THRESHOLD ICT-MEDIATED PROGRAM ON FUNCTIONAL FITNESS IN FEMALE HOME-CARE RECIPIENTS

Jungreitmayr, S. et al [Austria]

12:00 OP-PM64-3

LAND- VERSUS WATER-WALKING INTERVENTIONS IN OLDER ADULTS: EFFECTS ON AEROBIC FITNESS AND BODY COMPOSITION

Naylor, L.H. et al [Australia]

12:15 OP-PM64-4

PHYSICAL PERFORMANCE MAINTENANCE 1 YEAR FOLLOWING THE END OF AN INTERVENTION: IMPACT OF THE TYPE OF EXERCISE?

AUBERTIN-LEHEUDRE, M. [Canada]

12:30 OP-PM64-5

THE INFLUENCES OF THE ABILITY OF AGILITY IN DIFFERENT SITE BASED EXERCISE PROGRAM IN

COMMUNITY-DWELLING OLDER ADULTS

Chou, J. et al [Taiwan]

12:45 OP-PM64-6

A RANDOMISED CONTROLLED STUDY OF 12-WEEKS OF PILATES ON FALL RISK FACTORS IN HEALTHY OLDER ADULTS

DONATONI DA SILVA, L. et al [Ireland]

## IS-BN07

### North Hall

#### Towards a better understanding of running injuries [Clinical track]

Chair(s):

Lake, M. [United Kingdom]

Baltzopoulos, B. [United Kingdom]

11:30 IS-BN07-1

FOOTSTRIKE PATTERNS AND INJURY RISK

Hamill, J. [United States]

12:00 IS-BN07-2

THE IMPORTANCE OF SATELLITE CELL AND CAPILLARY INTERPLAY FOR MUSCLE HYPERTROPHY

Parise, G. [Canada]

12:30 IS-BN07-3

DYNAMIC BONE MOVEMENTS DURING LOCOMOTION

Kepple, T. [United States]

## OP-BN31

### Club A

#### Biomechanics and neuromuscular: Mixed I

Chair(s):

Gehring, D. [Germany]

Kay, A. [United Kingdom]

11:30 OP-BN31-1

THE ANTICIPATION OF VARYING GRAVITY LEVELS IN HUMAN BALLISTIC MOVEMENT

Waldvogel, J. et al [Germany]

# Oral & Invited Presentations

11:45 OP-BN31-2  
THE EFFECTS OF STRETCHING RATE ON PLANTAR FLEXOR NEUROMECHANICAL PROPERTIES AND MAXIMUM ANKLE RANGE OF MOTION  
Pinto, M.D. et al [Australia]

12:00 OP-BN31-3  
ACUTE STATIC STRETCHING DOES NOT ALTER BALANCE CONTROL ABILITY: THE ROLE OF NEUROMUSCULAR ACTIVATION  
Shokohyar, S. et al [Italy]

12:15 OP-BN31-4  
WHAT MAKES LONG-TERM RESISTANCE-TRAINED INDIVIDUALS SO STRONG? A COMPARISON OF SKELETAL MUSCLE MORPHOLOGY, ARCHITECTURE, AND JOINT MECHANICS.  
Maden-Wilkinson, T. et al [United Kingdom]

12:30 OP-BN31-5  
SPECTRAL ALTERATIONS OF LOWER LIMB EMG SIGNAL DURING A 4-KM TRACK CYCLING TIME TRIAL IN HIGH-LEVEL FEMALE CYCLISTS  
Bideau, N. et al [France]

12:45 OP-BN31-6  
A COMPARISON OF VASTUS MEDIALIS, VASTUS LATERALIS, BICEPS FEMORIS, AND LATERAL GASTROCNEMIUS ELECTROMYOGRAPHIC ACTIVITY BETWEEN SEXES DURING A JUMP LANDING.  
Pantano, K. [United States]

## OP-BN32

### Club E

#### Biomechanics and neuromuscular: Mixed II

Chair(s):  
Hanley, B. [United Kingdom]  
Balsalobre-Fernández, C. [Spain]

11:30 OP-BN32-1  
DIFFERENCE IN ENERGY GAIN AND TAKE-OFF PARAMETERS ACCORDING TO SEX AND LEVEL OF EXPERTISE IN THE POLE VAULT  
Frère, J. et al [France]

11:45 OP-BN32-2  
INTER-SESSION RELIABILITY OF SAGITTAL PLANE HIP PROPRIOCEPTION MEASUREMENT IN HEALTHY YOUNG ADULTS  
Steingrebe, H. et al [Germany]

12:00 OP-BN32-3  
THE EFFECT OF LATERAL WIND ON THE FLIGHT STABILITY IN SKI JUMPING  
HU, Q. et al [China]

12:15 OP-BN32-4  
MULTIVARIATE REGRESSION MODELLING OF CHINESE ARTISTIC GYMNASTIC HANDSPRING VAULTING KINEMATIC PERFORMANCE AND JUDGES SCORES  
he, w. [China]

## OP-PM67

### Club H

#### Sports injuries and orthopedics III

Chair(s):  
Karamanidis, K. [United Kingdom]  
Lamberts, R. [South Africa]

11:30 OP-PM67-1  
HABITUAL LOADING LEADS TO TENDON HYPERTROPHY IN THE ELDERLY AND YOUNG HUMAN PATELLAR TENDON  
Couppé, C. et al [Denmark]

11:45 OP-PM67-2  
OVERUSE INJURIES IN SWEDISH ELITE ATHLETICS – A PROSPECTIVE COHORT STUDY  
Lundberg Zachrisson, A. et al [Sweden]

12:00 OP-PM67-3  
BASIC RESEARCH ON OCCURRENCE FACTORS OF HEAD BRUISES IN THROWING TECHNIQUE OF JUDO - INFLUENCE OF UNEXPECTED CONDITION ON BACKWARD BREAKFALL -  
HAYASHI, H. et al [Japan]

12:15 OP-PM67-4  
VISUAL ANALOGUE SCALE AND BODY MASS INDEX MAY PLAY IMPORTANT ROLES FOR DETERIORATE WOMAC SCORES OF PREVENTIVE AGAINST KNEE OSTEOARTHRITIS IN COMMUNITY-DWELLING

OLDER ADULTS  
Chen, C.H. et al [Taiwan]  
12:30 OP-PM67-5  
CHALLENGING BELIEFS: CHANGES IN GMFCS TWO DECADES AFTER IVE DORSAL RHIZOTOMY OR ORTHOPAEDIC SURGERY  
Langerak, N.G. et al [South Africa]

## OP-PM69

### Terrace 2A

#### Health and fitness: Clinical populations II

Chair(s):  
Phillips, B. [United Kingdom]  
Berntsen, S. [Norway]

11:30 OP-PM69-1  
EXERCISE ADHERENCE AND PSYCHOLOGICAL NEEDS SATISFACTION IN THE PHYSICAL ACTIVITY AND ASTHMA IN YOUTH (PLAY) INTERVENTION  
Westergren, T. et al [Norway]

11:45 OP-PM69-2  
AEROBIC EXERCISE AND VENTILATORY FUNCTION IN CYSTIC FIBROSIS: WHAT ARE THE IMPLICATIONS OF DYSGLYCAEMIA?  
Causer, A.J. et al [United Kingdom]

12:00 OP-PM69-3  
END CRITERIA FOR REACHING MAXIMAL OXYGEN UPTAKE IN PATIENTS NEWLY DIAGNOSED WITH CANCER. BASELINE DATA FROM THE RANDOMIZED CONTROLLED TRIAL OF PHYSICAL TRAINING AND CANCER (PHYS-CAN)  
Bjørke, A.C.H. et al [Norway]

12:15 OP-PM69-4  
SIX WEEKS OF ENDURANCE TRAINING MODULATE MYELOID DERIVED SUPPRESSOR CELLS (MDSC) IN GASTROINTESTINAL CANCER PATIENTS  
Pessoa, A.F.M. et al [Brazil]

12:30 OP-PM69-5  
COMPARATIVE ANALYSIS OF THE EFFECTS OF REGULAR EXERCISE ON IMMUNOREGULATORY AND COGNITIVE ABILITIES IN YOUNG AND ELDERLY

ADULTS  
Balogh, L. et al [Hungary]

## Saturday, July 6

### 15:15 - 16:30

## PL-PS04

### Congress Hall

#### The importance of circadian rhythm for athletic performance and skeletal muscle health

Chair(s):  
Mackey, A. [Denmark]

15:15 PL-PS04-1  
THE INTRINSIC MUSCLE CLOCK AND MUSCULO-SKELETAL HEALTH  
Esser, K. [United States]

15:55 PL-PS04-2  
CIRCADIAN CONTROL OF DIURNAL PERFORMANCE PATTERNS IN ATHLETES  
Brandstaetter, R. [Austria]



# Conventional Print Poster Presentations

**Wednesday, July 3,  
2019**

**12:45 - 13:45**

## CP-PM01 MOLECULAR SIGNALING RESPONSE

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Reljic, D. [Germany]  
Apro, W. [Sweden]

CP-PM01-1 [YIA]

EFFECTS OF ORAL LACTATE ADMINISTRATION ON ENDURANCE TRAINING-INDUCED MITOCHONDRIAL ADAPTATIONS IN MICE

Takahashi, K. et al [Japan]

CP-PM01-2 [YIA]

A NETWORK-DRIVEN APPROACH TO IDENTIFYING MECHANISMS OF CONTRACTION-INDUCED MUSCLE ADAPTATION AS A FUNCTION OF AGE

Willis, C.R.G. et al [United Kingdom]

CP-PM01-3

THE EFFECTS OF LOW-INTENSITY PULSED ULTRASOUND EXPOSURE ON THE AKT/MTOR SIGNALING PATHWAY AFTER CARDIOTOXIN-INDUCED MUSCLE INJURY IN A MOUSE MODEL.

Sakamoto, M. et al [Japan]

CP-PM01-4

EFFECT OF RENALASE ON DEXAMETHASONE-INDUCED MUSCLE ATROPHY

Tokinoya, K. et al [Japan]

CP-PM01-5

THE INFLUENCE OF A COMBINATION OF AURANTHIOCHTRIUM INTAKE AND RESISTANCE EXERCISE ON AMPK AND MTORC1 SIGNALING IN MURINE SKELETAL MUSCLE

Mori, R. et al [Japan]

CP-PM01-6

EFFECT OF TWICE-A-DAY ENDURANCE TRAINING ON SKELETAL MUSCLE OXIDATIVE CAPACITY BASED ON ACUTE RESPONSES OF PGC-1A

Takakura, H. et al [Japan]

CP-PM01-7

FIBRE-TYPE SPECIFICITY OF STATIN ASSOCIATED MYOPATHY

Mallinson, J.E. et al [United Kingdom]

CP-PM01-8

MOLECULAR MECHANISMS INVOLVED IN REDUCED MTORC1 SIGNAL RESPONSES AFTER REPEATED BOUTS OF RESISTANCE EXERCISE

Takegaki, J. et al [Japan]

CP-PM01-9

HIGH-INTENSITY CYCLING PERFORMED PRIOR TO RESISTANCE EXERCISE STIMULATES AUTOPHAGY SIGNALLING THROUGH ACTIVATION OF AMPK2 IN HUMAN SKELETAL MUSCLE

Apro, W. et al [Sweden]

CP-PM01-10

PROLONGED STRETCH DOES NOT IMPROVE INSULIN-STIMULATED GLUCOSE TRANSPORT IN INSULIN-RESISTANT RAT SOLEUS MUSCLE

Honda, H. et al [Japan]

## CP-PM04 MUSCLE GROWTH: ADAPTATION

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Longo, S. [Italy]

CP-PM04-1 [YIA]

COMPARABLE MUSCLE ATROPHY WITH 2 WEEKS OF IMMOBILIZATION (IMB) AS HYPERTROPHY WITH 10 WEEKS OF RESISTANCE EXERCISE TRAINING (RET): IMPLICATIONS FOR MECHANISMS OF PROTEIN TURNOVER

Stokes, T. [Canada]

CP-PM04-2 [YIA]

POST-EXERCISE COOLING IMPAIRS DAILY MUSCLE PROTEIN SYNTHESIS RATES DURING 2 WEEKS

OF RESISTANCE-TYPE EXERCISE TRAINING IN HEALTHY YOUNG MALES

Fuchs, C.J. et al [Netherlands]

CP-PM04-3

EFFECTS OF COMBINED BLOOD-FLOW RESTRICTED TRAINING AND HEAVY-LOAD RESISTANCE TRAINING ON MYOFIBER MORPHOLOGY AND MECHANICAL MUSCLE FUNCTION

Hansen, S.K. et al [Denmark]

CP-PM04-4

ALTERED RESPONSE TO MONO-ARTICULAR EXERCISE IN THE SKELETAL MUSCLE OF PATIENTS WITH HOMOZYGOUS SICKLE CELL DISEASE

Gouraud, E. et al [France]

CP-PM04-5

LOW GLYCOGEN AVAILABILITY INCREASES AUTOPHAGY SIGNALLING FOLLOWING RESISTANCE EXERCISE

Horwath, O. et al [Sweden]

CP-PM04-6

EFFECT OF SCIATIC DENERVATION ON MITOCHONDRIAL STRUCTURE IN SINGLE MUSCLE FIBER

Takeda, K. [Japan]

CP-PM04-7

STRENGTH IMPROVEMENTS THROUGH OCCLUSAL SPLINTS? THE EFFECTS OF DIFFERENT LOWER JAW POSITIONS ON MAXIMAL ISOMETRIC FORCE PRODUCTION AND PERFORMANCE IN DIFFERENT JUMPING TYPES

Ohlendorf, D. et al [Germany]

CP-PM04-8

EFFECTS OF ACUTE STATIC AND BALLISTIC STRETCHING EXERCISES ON MUSCLE STRENGTH AND BALANCE: A PILOT STUDY

Mani, E. et al [Cyprus]

CP-PM04-9

RELATIONSHIP BETWEEN BROWN ADIPOSE TISSUE AND MUSCLE TISSUE AND INTRAMUSCULAR ADIPOSE TISSUE IN YOUNG AND MIDDLE-AGED PEOPLE

Ogawa, M. et al [Japan]

## CP-PM05 TRAINING AND TESTING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Wiewelhoe, T. [Germany]  
Cotter, J. [New Zealand]

CP-PM05-1 [YIA]

EFFECTS OF REPEATED SPRINT TRAINING IN HYPOXIA ON REPEATED WINGATE SPRINT ABILITY AND LACTATE METABOLISM.

Takei, N. [Japan]

CP-PM05-2

NEUROMUSCULAR, METABOLIC AND PERCEPTUAL RESPONSE TO CONCURRENT TRAINING.

Cross, R. et al [Australia]

CP-PM05-3

THE EFFECT OF WEATHER ON IAAF AND OLYMPIC TRACK AND FIELD PERFORMANCES FROM 1983 - 2017

Guy, J.H. et al [Australia]

CP-PM05-4

EXERCISE DURATION IS AN INDEPENDENT MARKER OF WORKLOAD IN ENDURANCE TYPE CONSTANT-LOAD EXERCISE

Weiner, L. et al [Austria]

CP-PM05-5

THE UTILITY OF A SELF-PACED SUBMAXIMAL RUNNING TEST TO MONITOR FATIGUE IN ULTRAMARATHON RUNNERS.

Sangan, H. et al [United Kingdom]

CP-PM05-6

SPRINT INTERVAL TRAINING VERSUS HIGH INTENSITY INTERVAL TRAINING IN UNTRAINED UNIVERSITY STUDENTS

Boer, P. [South Africa]

CP-PM05-7

EFFECTS OF MODERATE-INTENSITY ENDURANCE AND HIGH-INTENSITY INTERVAL TRAINING UNDER HYPOXIC CONDITIONS ON BODY COMPOSITION AND GLUCOSE TOLERANCE

Ogita, F. et al [Japan]

CP-PM05-8

CARDIORESPIRATORY FITNESS AND LOWER LIMB MAXIMAL POWER IN HIGH INTENSITY FUNCTIONAL TRAINING ATHLETES

Adami, P.E. et al [Italy]

CP-PM05-9

SESSION-RPE METHOD FOR QUANTIFYING AND RELATING TRAINING LOAD TO SWIMMING PERFORMANCE IN ADOLESCENTS

Pind, R. et al [Estonia]

## CP-BN01 NEUROMUSCULAR PHYSIOLOGY

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Baudry, S. [Belgium]  
Girard, O. [Australia]

CP-BN01-1 [YIA]

CHANGES IN THE COMMON SYNAPTIC DRIVE TO THE ANKLE DORSIFLEXOR MUSCLE DURING SPLIT-BELT WALKING IN HUMANS

Oshima, A. et al [Japan]

CP-BN01-2 [YIA]

HIGHER ELECTROMYOGRAPHIC ACTIVITY IN THE DISTAL THAN IN THE PROXIMAL REGION OF THE BICEPS FEMORIS LONG HEAD AND SEMIMEMBRANOSUS DURING HIP-DOMINANT EXERCISE

Raki, K. et al [Japan]

CP-BN01-3

GLUTEUS MEDIUS, QUADRATUS LUMBROUM, AND ERECTOR SPINAE MUSCLE ACTIVITY DURING VERTICAL JUMP WITH VARIOUS LOADS

Vadász, K. et al [Hungary]

CP-BN01-4

ABDOMINAL OBLIQUE MUSCLE ACTIVATION PATTERNS DURING THE CRICKET PACE BOWLING ACTION

Forrest, M.R.L. et al [Australia]

CP-BN01-5

CORE STABILITY NEUROMUSCULAR CONTROL DURING PERTURBED STANDING POSTURE



MORNIEUX, G. et al [France]

CP-BN01-6

TENSIOMYOGRAPHY INDICATES DIFFERENT LEVELS OF POST-EXERCISE CONTRACTILE FATIGUE BETWEEN TRADITIONAL SETS AND REST REDISTRIBUTION SETS AT DIFFERENT VELOCITIES

Omcirk, D. et al [Czech Republic]

CP-BN01-7

CHANGES IN THE RATE OF FORCE DEVELOPMENT-SCALING FACTOR FOLLOWING ISOMETRIC ELECTROMYOSTIMULATION TRAINING PROGRAM

Mirkov, D.M. et al [Serbia]

CP-BN01-8

HISTORY DEPENDENCE OF MUSCLE EXCITATION AND OXYGENATION

Song, J. et al [Korea, South]

CP-BN01-9

A NEW METHOD OF SPLITTING NEUROMUSCULAR ELECTRICAL STIMULATION CURRENT OVER SEVERAL SMALLER ELECTRODES

Aldayel, A. [Saudi Arabia]

## CP-MI01 STRENGTH AND POWER

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Cupeiro Coto, R. [Spain]

Brown, E. [United States]

CP-MI01-1 [YIA]

A NEW APPROACH TO EVALUATE THE FORCE-VELOCITY PROFILE: THE SIT TO STAND TEST.

Baltasar-Fernandez, I. et al [Spain]

CP-MI01-2 [YIA]

THE EFFECT OF TRADITIONAL SETS AND REST-REDISTRIBUTION ON TOTAL WORK DURING CONCENTRIC ISOKINETIC KNEE EXTENSIONS AT TWO DIFFERENT SPEEDS

Malecek, J. et al [Czech Republic]

CP-MI01-3 [YIA]

THE EFFECT OF AN UNILATERAL SHORT-TERM STRENGTH TRAINING ON NEUROMUSCULAR

EFFICIENCY

Bassan, N.M. et al [Brazil]

CP-MI01-4

EFFECTS OF PASSIVE ISOKINETIC HIP EXTENSION-FLEXION TRAINING WITH ELECTROMYOSTIMULATION ON HIP JOINT TORQUE AND SPRINT PERFORMANCE

MIKI, S. et al [Japan]

CP-MI01-5

NEUROMUSCULAR RESPONSE TO DIFFERENT PERIODISATION STRATEGIES WITHIN RESISTANCE TRAINING: A PILOT STUDY

Malone, J.J. et al [United Kingdom]

CP-MI01-6

PERFORMING EXPERIENCE AND STABILITY OF RANGE OF MOTION IN BOTTOM POSITION OF SQUAT

Oliva, V. et al [Slovakia]

CP-MI01-7

SHORT- VERSUS FULL RANGE OF MOTION EXPLOSIVE TRAINING TO ENHANCE LOWER LIMB POWER PRODUCTION

Solberg, C. et al [Norway]

CP-MI01-8

EXERCISE-INDUCED ENERGY EXPENDITURE DURING STRENGTH TRAINING – COMPARISON BETWEEN A MACHINE-BASED AND A BODYWEIGHT STRENGTH TRAINING PROGRAM

Schierbauer, J. et al [Germany]

CP-MI01-9

ACUTE AND SHORT-TERM RESPONSE TO DIFFERENT LEVELS OF EFFORT DURING RESISTANCE TRAINING

Cornejo-Daza, P. et al [Spain]

## CP-PM06 BONE AND MUSCLE

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Clijisen, R. [Switzerland]

Hohenauer, E. [Switzerland]

CP-PM06-1 [YIA]

EXPRESSION OF INFLAMMATORY MEDIATORS AT PATELLAR BONE-TENDON JUNCTION DURING THE ACCUMULATION OF JUMP LOAD

CHEN, X. et al [China]

CP-PM06-2

THE EFFECTS OF DYNAMIC TAPE APPLICATION ON THE FRONTAL PLANE KNEE PROJECTION ANGLE DURING DROP LANDING AND JUMPING IN FEMALE VOLLEYBALL ATHLETES

Lin, C.F. et al [Taiwan]

CP-PM06-3

ILIOTIBIAL BAND STIFFNESS IN RUNNERS' KNEE – AN IMAGING- BASED INVESTIGATION

Friede, M. et al [Austria]

CP-PM06-4

LOW-GRADE INFLAMMATION AND ITS RELATION TO MUSCLE MASS

Kamper, R.S. et al [Denmark]

CP-PM06-5

REPEATED BOUT EFFECT ON MYOFIBER PERMEABILITY AND MUSCLE FUNCTION THAT IS DEPENDENT ON THE INTERVALS BETWEEN INITIAL AND SECOND BOUTS OF ECCENTRIC CONTRACTIONS IN RAT SKELETAL MUSCLE

Hayao, K. et al [Japan]

CP-PM06-6

UNLOADING STRESS RETARDS SATELLITE CELL MIGRATION BY DELAYED MACROPHAGE RECRUITMENT AFTER SKELETAL MUSCLE INJURY IN RATS

Kawashima, M. et al [Japan]

CP-PM06-7

POTENTIAL SEX DEPENDENT BIOMECHANICAL RISK FACTORS FOR PATELLOFEMORAL PAIN SYNDROME.

Björgvinsdóttir, M. et al [Iceland]

CP-PM06-8

CIRCULATING MYOKINES RESPONSE TO ENDURANCE AND CONCURRENT TRAINING AND ITS RELATIONSHIP WITH GLYCEMIC CONTROL IN POSTMENOPAUSAL WOMEN

Pérez-López, A. et al [Spain]

CP-PM06-9

DOES CUPPING TREATMENT CHANGE THE POSITION OF TRANSVERSALIS MUSCLOFASCIAL JUNCTION?

Huang, Y.H. et al [Taiwan]

## CP-SH02 CHILDREN

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Mamen, A. [Norway]

Westergren, T. [Norway]

CP-SH02-1

EFFECT OF SPORTS INSTRUCTOR ON TEACHERS' AWARENESS OF CHILDREN'S PHYSICAL ACTIVITY IN NURSERY SCHOOLS

Kamimura, A. et al [Japan]

CP-SH02-2

A VOLITIONAL INTERVENTION TO IMPROVE HEALTH BEHAVIOUR

Mc Connell Desai, C. et al [Germany]

CP-SH02-3

ARE AREA-LEVEL CRIMES ASSOCIATED WITH OLDER ADULTS' PHYSICAL ACTIVITY AND SEDENTARY BEHAVIOR?

Liao, Y. et al [Taiwan]

CP-SH02-4

PREDICTING RETENTION AND ATTENDANCE BEHAVIOUR OF LEISURE CENTRES MEMBERS

Willinger, N. et al [United Kingdom]

CP-SH02-5

DESIGNING A BEHAVIOUR CHANGE QUESTIONNAIRE TO ADDRESS PHYSICAL INACTIVITY OF LEISURE CENTRES' CUSTOMERS. A PILOT TEST.

López-Fernández, J. et al [United Kingdom]

CP-SH02-6

INCLUSION, EXCLUSION, AND BELONGING AMONGST GROUP FITNESS INSTRUCTORS IN AUSTRIA: FOR A FITTER PLANET?

Andersson, K. et al [Austria]

CP-SH02-7

THE EFFECT OF JOB PERFORMANCE MEDIATED BY EXPERIENTIAL VALUE WHEN EXERCISING IN GYMS.

Wu, Y.T. et al [Taiwan]

CP-SH02-8

YEAR-ROUND ENGAGEMENT IN TRACK AND FIELD ATHLETICS DURING EARLY ADOLESCENCE IS PREVALENT AMONGST ENDURANCE RUNNERS, BUT DOES NOT IMPACT ON ATHLETE RETENTION

Kearney, P.E. et al [Ireland]

CP-SH02-9

PRIOR SELF-CONTROL EXERTION AND CAFFEINE MOUTH RINSING DURING ENDURANCE PERFORMANCE

Boat, R. et al [United Kingdom]

## CP-PM02 ERGOGENIC AIDS; FAT, GLUCOSE AND METABOLISM

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Etzebarria, N. [Australia]

Condo, D. [Australia]

CP-PM02-1 [YIA]

MORNING VS. EVENING CAFFEINE SUPPLEMENTATION: DOES TIME OF ADMINISTRATION DIFFERENTLY AFFECT SHORT-TERM MAXIMAL PERFORMANCE IN BASKETBALL PLAYERS?

Stojanovic, E. [Serbia]

CP-PM02-2 [YIA]

EFFECTS OF DIFFERENT DOSES OF FISH OIL SUPPLEMENTATION ON ENERGY METABOLISM, MUSCLE DAMAGE AND EXERCISE PERFORMANCE IN ENDURANCE ATHLETES

Peng, S.C. et al [Taiwan]

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## CP-PM02-3 [YIA]

EFFECT OF DIFFERENT CARBOHYDRATE MEAL INTAKE AFTER EXERCISE ON ARM MUSCLE GLYCOGEN AND URINE HEPICIDIN LEVEL IN ELITE NORDIC COMBINED ATHLETES.

Ishibashi, A. et al [Japan]

## CP-PM02-4

THE EFFECT OF CARBOHYDRATE SUPPLEMENTATION ON SUBSTRATE OXIDATION DURING EXERCISE IN HYPOXIA AFTER BREAKFAST CONSUMPTION OR OMISSION

Griffiths, A. et al [United Kingdom]

## CP-PM02-5

EFFECTS OF HIGH-CARBOHYDRATE MEAL ON MUSCLE GLYCOGEN AND PHYSICAL PERFORMANCE AFTER RAPID WEIGHT LOSS IN ELITE COLLEGIATE WRESTLERS

Kondo, E. et al [Japan]

## CP-PM02-6

EFFECTS OF VITAMIN D SUPPLEMENTATION ON MUSCLE FUNCTION IN FEMALE COLLEGE VOLLEYBALL PLAYERS

Liu, Y.H. et al [Taiwan]

## CP-PM02-7

THE EFFECTS OF 32 WEEKS OF BETA-ALANINE SUPPLEMENTATION ON CROSSFIT-SPECIFIC PERFORMANCE, BODY COMPOSITION AND DIETARY HABITS IN CROSSFIT ATHLETES

Kumstát, M. et al [Czech Republic]

## CP-PM02-8

CHRONIC 25-HESPERIDIN INTAKE IMPROVES POWER OUTPUT AT VO<sub>2</sub>MAX AND BODY COMPOSITION IN CYCLISTS

Marínez-Noguera, F.J. et al [Spain]

## CP-BN02 MUSCLE / TENDON FUNCTION

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Franchi, M. [Italy]

Monte, A. [Italy]

## CP-BN02-1 [YIA]

MUSCLE SIZE-SCALED SHEAR ELASTIC MODULUS IS STRONGLY CORRELATED WITH MUSCLE FORCE DURING SUBMAXIMAL ISOMETRIC CONTRACTION

Yagi, M. et al [Japan]

## CP-BN02-2 [YIA]

MUSCLE AND TENDON INTERACTION OF THE HUMAN GASTROCNEMIUS MEDIALIS DURING BODY WEIGHT SUPPORTED RUNNING USING THE VERTICAL TREADMILL FACILITY

Richter, C. et al [Germany]

## CP-BN02-3 [YIA]

ASSESSMENT OF ACHILLES TENDON LENGTH DURING WALKING AND RUNNING: A NEW IN VIVO APPROACH

Kharazi, M.R. et al [Germany]

## CP-BN02-4 [YIA]

CHANGES IN ECHO INTENSITY AND SHEAR ELASTIC MODULUS OF THE HAMSTRINGS WITH PASSIVE KNEE EXTENSION

Nakao, S. et al [Japan]

## CP-BN02-5

CHARACTERISTICS OF LOWER LIMB TENDONS AND THEIR RELATIONSHIPS WITH THE JAVELIN THROW PERFORMANCE

Kunimasa, Y. et al [Japan]

## CP-BN02-6

EFFECTS OF FASCICLE LENGTH FILTERING ON MUSCLE-TENDON BEHAVIOURAL PARAMETERS DURING CYCLING

Walker, J. et al [United Kingdom]

## CP-BN02-7

EFFECT OF WEIGHT LOAD ON MUSCLE-TENDON COMPLEX BEHAVIOR DURING SQUAT EXERCISE

Noro, H. et al [Japan]

## CP-BN02-8

VISCOELASTIC PROPERTIES OF VASTUS LATERALIS MUSCLE-TENDON COMPLEX IN COLLEGIATE SPRINTERS

Hata, K. et al [Japan]

## CP-BN02-9

RELATIONSHIP BETWEEN DECREASED STRETCH-SHORTENING CYCLE PERFORMANCE AFTER CYCLING AND STRETCH REFLEX OF TRICEPS SURAE MUSCLE

Takahashi, K. et al [Japan]

## CP-BN02-10

DECREASE IN PASSIVE TENSION IS ASSOCIATED WITH AN INCREASE IN SOLEUS HOFFMANN-REFLEX AMPLITUDE DURING A 1-MIN CONSTANT LENGTH STRETCHING OF THE PLANTAR FLEXOR MUSCLES

Datoussaid, M. et al [Belgium]

## CP-SH03 HUMANITIES

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Frühau, A. [Austria]

## CP-SH03-1

GIRLS JUST WANT TO HAVE FUN... OR DO THEY? A MACHINE LEARNING ANALYSIS OF WOMEN'S PARTICIPATION IN NORWAY'S ULTIMATE MASS PARTICIPATION SKI EVENT.

Calogiuri, G. et al [Norway]

## CP-SH03-2

COMPARING THE PRACTICES OF USA SKIING AND SNOWBOARDING AGAINST A GLOBAL MODEL FOR INTEGRATED DEVELOPMENT OF MASS AND HIGH PERFORMANCE SPORT

Schoen, C. et al [United States]

## CP-SH03-3

ASPECTS OF STORIES ABOUT PHYSICAL ACTIVITY IN CHILDHOOD AMONG OLDER WOMEN IN JAPAN: A TEXT MINING APPROACH IN LIFE HISTORY

Kozakai, R. [Japan]

## CP-SH03-4

HISTORICAL PREREQUISITES FOR CREATING AND DEVELOPING MODERN TYPES OF FENCING WEAPONS

Driukov, O. et al [Ukraine]

## CP-SH03-5

THE RELATIONSHIP BETWEEN EXPECTED VALUE AND BRAND LOYALTY FOR SPORTS BRANDS SUPPORTING FEMINISM: VERIFICATION OF THE MEDIATING EFFECT OF BRAND EMOTION

KIM, I.G. et al [Korea, South]

## CP-SH04 PSYCHOLOGICAL FACTORS IN SPORT

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Bjørndal, C. [Norway]

## CP-SH04-1

PHYSIOLOGICAL STRESS IN ELITE HANDBALL PLAYERS. INFLUENCE OF GENDER, POSITION AND PLAY TIME.

Mariscal, G. et al [Spain]

## CP-SH04-2

ASPECTS OF PSYCHOSOMATIC DISORDERS IN HIGHLY QUALIFIED ATHLETES

Igolkina, A. et al [Russia]

## CP-SH04-3

IMPLICIT PERSONALITY TRAITS AND SUCCESS IN SPORTS

Spreckels, C. et al [Germany]

## CP-SH04-4

A QUALITATIVE CONTENT ANALYSIS OF SPORTS-RELATED THOUGHTS IN COMPETITIVE ATHLETES

Kröhler, A. et al [Germany]

## CP-SH04-5

WHAT IS ORIENTEERING SPORT? A CASE STUDY OF THE ATHLETES PERCEPTION IN BRAZIL

Scopel, A. et al [Brazil]

## CP-SH04-6

POSSIBILITIES OF PARTICIPATORY ACTION RESEARCH AND ART-BASED METHODOLOGIES IN SPORT AND EXERCISE PSYCHOLOGY

Mashreghi, S. [Norway]

## CP-BN03 MOTOR LEARNING AND MOTOR CONTROL

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Keller, M. [Switzerland]

Latella, C. [Australia]

## CP-BN03-1 [YIA]

ALTERATIONS IN FUNCTIONAL CONNECTIVITY IS ASSOCIATED WITH COGNITIVE IMPROVEMENT INDUCED BY ACUTE EXERCISE

Saito, S. et al [Japan]

## CP-BN03-2 [YIA]

RELATIONSHIP OF MULTIPLE ASPECTS OF PHYSICAL FITNESS TO COGNITIVE CONTROL: AN FMRI INVESTIGATION WITH OVER 1,000 YOUNG AND MIDDLE-AGED ADULTS

Ishihara, T. et al [Japan]

## CP-BN03-3 [YIA]

ASSOCIATION BETWEEN ENDOGENOUS DOPAMINE RELEASE AND COGNITIVE IMPROVEMENT DURING EXERCISE

Konno, T. et al [Japan]

## CP-BN03-4

QUADRICEPS ACTIVATION DURING SELECTED FUNCTIONAL EXERCISES WITH AND WITHOUT ENHANCED ABDOMINAL CORE ACTIVATION

ERDEM, M.M. et al [Turkey]

## CP-BN03-5

EFFECTS OF HOLDING EXTERNAL LOADS WITH DIFFERENT MASSES ON POSTURAL CONTROL SYSTEM DURING QUIET STANDING

Yaegashi, M. et al [Japan]

## CP-BN03-6

EFFECTS OF MUSCLE CONTRACTION ON SUBJECTIVE PERIPHERAL SENSATION AND SPINAL EXCITABILITY

Takahara, T. et al [Japan]

## CP-BN03-7

ACTIVITY DURING CONTRACTION AND RELAXATION IN A VARIETY OF MUSCLES

Tetsu, T. et al [Japan]

## CP-BN03-8

EFFECT OF MUSCLE RELAXATION ON CORTICOSPINAL EXCITABILITY OF OTHER MUSCLES IN THE SAME LIMB

Ito, M. et al [Japan]

## CP-BN03-9

WITHIN AND BETWEEN DAY RELIABILITY OF MUSCLE SYNERGIES IN A COMPLEX STRENGTH TRAINING TASK

Santos, P. et al [Portugal]

## CP-PM03 HEALTH AND FITNESS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Naylor, L. [Australia]

Soriano-Maldonado, A. [Spain]

## CP-PM03-1 [YIA]

VENTILATORY RESPONSE AT REST AND DURING MAXIMAL EXERCISE TESTING IN PATIENTS WITH SEVERE OBESITY BEFORE AND AFTER SLEEVE GASTRECTOMY PROCEDURE.

Favero, C. et al [Italy]

## CP-PM03-2 [YIA]

THE RELATIONSHIP BETWEEN SLEEP HABITS AND MEETING THE CHILDREN'S PHYSICAL ACTIVITY GUIDELINES IN FIFTH- AND SIXTH-GRADE JAPANESE CHILDREN

Aoki, T. et al [Japan]

## CP-PM03-3 [YIA]

IMPACT OF DECREASE IN FATNESS ON CHANGES IN MENSTRUAL PATTERN IN JAPANESE COMPETITIVE ADOLESCENT RUNNERS.

Uchiyama, E. et al [Japan]

## CP-PM03-4 [YIA]

THE COMBINED EFFECTS OF ACUTE EXERCISE AND FREQUENT BREAKS IN SITTING ON POSTPRANDIAL METABOLISM IN OLDER ADULTS

Wheeler, M. [Australia]

## CP-PM03-5

COMBINED EFFECTS OF PHYSICAL ACTIVITY AND SEDENTARY BEHAVIOR ON FUNCTIONAL FITNESS

IN MIDDLE-AGED AND OLDER COMMUNITY-DWELLERS : A PRELIMINARY STUDY

Wu, H.J. et al [Taiwan]

## CP-PM03-6

PHYSICAL ACTIVITY, HEALTH PERCEPTION, BARRIERS TO EXERCISE IN ADULT NON-ATHLETES AND ATHLETES – INFLUENCE OF SPORT DURING YOUTH

Leyk, D. et al [Germany]

## CP-PM03-7

THE EFFECT OF ONE YEAR OF AEROBIC EXERCISE ON LIPIDS AND LIPOPROTEINS IN OLDER ADULTS

Berglund, I. [Norway]

## CP-PM03-8

EFFECT OF COMBINED EXERCISE AND DIETARY INTERVENTION ON SELF-CONTROL IN OBESE ADOLESCENTS

Xiang, M.Q. et al [China]

## CP-PM03-9

HIGH-VELOCITY LEG STRENGTH BUT NOT HAND-GRIP STRENGTH IS ASSOCIATED WITH FUNCTIONAL CAPACITY IN OLDER ADULTS

Vetrovsky, T. et al [Czech Republic]

## CP-BN06 SPORT TECHNOLOGY MIXED

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Vieira, T. [Italy]

## CP-BN06-1

CONTROLLED AND IN-SITU EVALUATION OF INDUSTRIAL EXOSKELETONS: PRELIMINARY RESULTS.

De Bock, S. et al [Belgium]

## CP-BN06-2

THE MECHANICAL ROWER: CONSTRUCTION, VALIDITY, AND RELIABILITY OF A MEASURING STATION FOR WIND BRAKED ROWING ERGOMETERS

Mentz, L. et al [Germany]

## CP-BN06-3

PRECISE AUTOMATED PASSING IN AMERICAN FOOTBALL

Hollaus, B. et al [Austria]

## CP-BN06-4

EFFECTS OF CYCLING SHORTS PADDING ON PERCEIVED DISCOMFORT AND SADDLE PRESSURE DISTRIBUTION AMONG FEMALE CYCLISTS IN LABORATORY CONDITIONS

Larsen, A.S. et al [Denmark]

## CP-BN06-5

COMPARISON OF PUSH-IN HARDNESS METERS: HAND-HELD TYPE AND ULTRASONOGRAPHIC DEVICES

Murayama, M. et al [Japan]

## CP-BN06-6

MICROCURRENT DEVICE IMPROVES LACTATE REMOVAL, PRESERVES LEAN MASS, AND ATTENUATES MUSCULAR SORENESS IN ENDURANCE ATHLETES: A PILOT STUDY

Seijo, M. et al [United Kingdom]

## CP-BN06-7

THE DEVELOPMENT OF AN ATHLETE SPECIFIC CHRONOTYPE INDEX

Ryan, R. et al [Australia]

## CP-BN06-8

ASSESSMENT OF MUSCLE SWELLING AFTER EXERCISE USING BIOELECTRICAL IMPEDANCE ANALYSIS

Iwata, A. et al [Japan]

## CP-BN07 SPORTS PHYSIOTHERAPY I

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Pantano, K. [United States]

Kux, J. [Germany]

## CP-BN07-1

POSTURAL STABILITY AND REGULATION BEFORE AND AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION – A TWO YEARS LONGITUDINAL STUDY

NAL STUDY

Hermassi, S. et al [Qatar]

## CP-BN07-2

RECOVERY EFFECT ON ECCENTRIC EXERCISE-INDUCED MUSCLE DAMAGE BY CONTRAST WATER THERAPY

Lee, J.H. et al [Taiwan]

## CP-BN07-3

A NOVEL BEHAVIOURAL INTERVENTION TO REDUCE SEDENTARY TIME IN OLDER ADULTS UNDERGOING ELECTIVE HIP OR KNEE SURGERY (INTEREST): A RANDOMISED CONTROLLED FEASIBILITY STUDY

Augner, J.A. et al [United Kingdom]

## CP-BN07-4

TREATMENT EFFECTS OF FUNCTIONAL ELECTRICAL STIMULATION ON PATHOLOGICAL TREMOR

Kang, N. et al [Korea, South]

## CP-BN07-5

PREDICTION AND VALIDATION OF AN ACCURATE AND SIMPLIFIED TOOL TO CONFIRM SARCOPENIA AND RISK OF PHYSICAL DISABILITY IN PEOPLE LIVING WITH HIV/AIDS

DOS SANTOS, A.P.S. et al [Brazil]

## CP-BN07-6

EFFECTS OF SELF NATURE POSTURE EXERCISE (SNPE) ON FITNESS, FUNCTIONAL MOVEMENT, RANGE OF MOTION, AND PAIN PERCEPTION

Lee, H. et al [Korea, South]

## CP-BN07-7

PHYSICAL READINESS AND SELF-RATED ABILITY IN COLLEGIATE ATHLETES WITH LATERAL ANKLE SPRAINS IN CHRONIC STAGE

Hunsawong, T. et al [Thailand]

## CP-BN07-8

TWO-DIMENSIONAL KNEE AND HIP KINEMATICS IN ATHLETES WITH AND WITHOUT ADDUCTOR STRAIN

Unuvar, E. et al [Turkey]

## CP-BN04 BALANCE AND POSTURE

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Giboin, L. [Germany]

Ringhof, S. [Germany]

## CP-BN04-1 [YIA]

RELATIONSHIP BETWEEN ANKLE PLANTAR FLEXOR FORCE STEADINESS AND POSTURAL STABILITY ON STABLE AND UNSTABLE PLATFORMS

Hirono, T. et al [Japan]

## CP-BN04-2 [YIA]

VOLUNTARY STEP EXECUTION IS A LIMITED PREDICTOR FOR RECOVERY PERFORMANCE AFTER SUDDEN BALANCE LOSS

Werth, J. et al [United Kingdom]

## CP-BN04-3

TRUNK NEUROMUSCULAR CONTROL IS ASSOCIATED WITH POSTURAL CONTROL DURING CHALLENGING BALANCE TASK

DUCHENE, Y. et al [France]

## CP-BN04-4

BACK ROTATOR ISOKINETIC STRENGTH PROFILE IN BADMINTON PLAYERS

Li, N. et al [China]

## CP-BN04-5

EVALUATION OF PROPRIOCEPTION IN SUBJECTS BEFORE AND AFTER TOTAL KNEE ARTHROPLASTY

Barone, G. et al [Italy]

## CP-BN04-6

DOES EXPLICIT WRIST USAGE BENEFIT BEGINNERS' HANDSTAND PERFORMANCES? APPROACHING ALTERED COACHING OF SKILL-RELATED MOTOR BEHAVIOUR

Rohleder, J. et al [Germany]

## CP-BN04-7

COMPARISON OF DIFFERENT BALLET POINTE SHOES ON GROUND REACTION FORCE DURING BALLET MOVEMENTS

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Lin, C.F. et al [Taiwan]

CP-BN04-8

THE EFFECT OF EMG BIOFEEDBACK ON THE ACTIVITY OF POSTURAL MUSCLES DURING STANDING IN THE ELDERLY: IMPLICATIONS FOR BALANCE TRAINING.

Dos Anjos, F. et al [Italy]

CP-BN04-9

INTER-RATER RELIABILITY OF THE FOOT LIFT TEST IN PHYSICALLY ACTIVE INDIVIDUALS

Thanasoot, K. et al [Thailand]

## CP-BN05 RUNNING AND THROWING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Paradisis, G. [Greece]

Couppé, C. [Denmark]

CP-BN05-1 [YIA]

BUILT FOR FAST SPRINT RUNNING: PHASE-SPECIFIC ASSOCIATION OF INDIVIDUAL HIP EXTENSOR SIZES WITH SPRINT VELOCITY AND STEP VARIABLES

Takahashi, K. et al [Japan]

CP-BN05-2 [YIA]

INTERRELATIONSHIP BETWEEN JOINT MOVEMENTS TO MAINTAIN PRECISION OF PERFORMANCE IN BASEBALL THROWING

Kimura, A. et al [Japan]

CP-BN05-3

EFFECT OF TRUNK LATERAL TILT ON PITCHING BIOMECHANICS AND PERFORMANCE

Tseng, T. et al [Taiwan]

CP-BN05-4

THE EFFECT OF EARLY TRUNK ROTATION ON BASEBALL PITCHING MECHANICS

Yeh, H. et al [Taiwan]

CP-BN05-5

CAN BIOMECHANICAL METAPHOR CORRECTLY CONVEY INFORMATION OF SPORTS TECHNIQUES? A KINEMATIC ANALYSIS OF DART

THROWING

Zeniya, H. et al [Japan]

CP-BN05-6

IDENTIFICATION OF RUNNING PATTERNS IN JUNIOR HIGH SCHOOL STUDENTS

Yanagiya, T. et al [Japan]

CP-BN05-7

BEHAVIOUR OF MUSCLE-TENDON COMPLEX OF THE GASTROCNEMIUS LATERALIS DURING THE STANCE PHASE OF STAIR GAIT IN YOUNG AND OLD ADULTS

Johannsson, J. et al [Luxembourg]

CP-BN05-8

MEDIAL LONGITUDINAL ARCH DEFORMATION DURING GAIT IN ELEMENTARY SCHOOL GIRLS

Kiuchi, A. et al [Japan]

CP-BN05-9

EFFICACY OF TRANSVERSE ARCH SUPPORT SHOE INSOLES IN COUNTERING PLANTAR FORCE

Saho, Y. et al [Japan]

## CP-BN08 JUMPING AND SQUATTING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Sayers, M. [Australia]

CP-BN08-1

LONGITUDINAL CHANGES IN THE EARLY AND LATE RATES OF FORCE DEVELOPMENT IN THE COMPETITION SEASON FOR JUMPERS

ZUSHI, K. et al [Japan]

CP-BN08-2

BASKETBALL DUNK KINETICS – AGREEMENT BETWEEN FORCE PLATE AND MARKERLESS 3-D MOTION CAPTURE SYSTEM ASSESSMENTS

Cabarkapa, D. et al [United States]

CP-BN08-3

KNEE KINEMATICS DIFFERENCES IN DIFFERENT LANDING TASKS BETWEEN FEMALE BASKETBALL PLAYER AND NON-PLAYER

Kagaya, Y. et al [Japan]

CP-BN08-4

DETERMINING JUMP HEIGHT IN BEACHVOLLEYBALL WITH INERTIAL MEASUREMENT DEVICES

Schmidt, M. et al [Germany]

CP-BN08-5

DOES HIP STRENGTH INFLUENCE KNEE POWER DURING DROP JUMP TASKS IN ADOLESCENTS?

Petrovic, M. et al [Iceland]

CP-BN08-6

THE SPIKE IN BEACH VOLLEYBALL – EXAMINATION OF TWO DIFFERENT ARM SWING TECHNIQUES

Schrapf, N. et al [Austria]

CP-BN08-7

DIFFERENCES IN PEAK VELOCITY, PEAK POWER, JUMP HEIGHT AND COUNTERMOVEMENT DEPTH: JUMPS OVER A 50CM HURDLE AND ON TO A 50CM BOX

Janikov, M.T. et al [Czech Republic]

CP-BN08-8

IS THE JUMPING PERFORMANCE INFLUENCED BY THE BASIC ANTHROPOMETRIC PARAMETERS IN FEMALE VOLLEYBALL PLAYERS?

Jandová, S. et al [Czech Republic]

## CP-MI02 TRAINING AND TESTING I

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

De Pauw, K. [Belgium]

Dascombe, B. [Australia]

CP-MI02-1

EEG PRIOR TO GOLF PUTTING WAS MODULATED BY PREVIOUS PERFORMANCE

Hung, E. et al [Taiwan]

CP-MI02-2

RELATIONSHIP BETWEEN PERFORMANCE AND EMOTIONAL STATE IN BASKETBALL THREE-POINT SHOTS

Gorai, C. et al [Japan]

CP-MI02-3

PHYSIOLOGICAL PROFILES OF YOUNG PILOTS OF AN ELITE DRIVER ACADEMY

Iannaccone, A. et al [Italy]

CP-MI02-4

ESTABLISHING A PROTOCOL TO MEASURE SIMPLE AND CHOICE STATIC EYE-HAND RESPONSE TIME USING FITLIGHT TRAINER™ SYSTEM

SEE, L.C. et al [Taiwan]

CP-MI02-5

TALENT DEVELOPMENT AND IMPORTANCE OF PHYSICAL FITNESS IN AUSTRIAN YOUTH GOLF ATHLETES

Luchner, R. et al [Austria]

CP-MI02-6

EXERCISE INTENSITY DURING EXERGAMING

Berg, J. [Norway]

CP-MI02-7

THE ROLE OF BURPEES AS PUNISHMENT FOR A "MISSED OBSTACLE" DURING OBSTACLE COURSE RACING: A PILOT STUDY

Monika, K. et al [Czech Republic]

CP-MI02-8

IS THERE AN ACUTE EFFECT IN PERFORMING COMMON RANGE OF MOTION TESTS?

Holzgreve, F. et al [Germany]

CP-MI02-9

IMU-BASED CLASSIFICATION OF THE FUNCTIONAL MOVEMENT SCREEN DEEP SQUAT AND HURDLE STEP TESTS

Lee, M. [Taiwan]

## CP-SH01 PHYSICAL EDUCATION / PEDAGOGIC APPROACHES

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Millar, S. [New Zealand]

LEÓN GUEREÑO, P. [Spain]

CP-SH01-1 [YIA]

EFFECTS OF A SHORT-TERM HIGH INTENSITY INTERVAL TRAINING ON PHYSICAL FITNESS AND EXECUTIVE FUNCTIONS IN ELEMENTARY SCHOOL CHILDREN

Tottori, N. et al [Japan]

CP-SH01-2

GAZE ANALYSIS OF EARLY CHILD CARE TEACHERS' OBSERVATION SKILL

Nakazawa, K. et al [Japan]

CP-SH01-3

PREFERRED TEACHING STYLES OF PETE TEACHER CANDIDATES

Wilkinson, C. et al [United States]

CP-SH01-4

IS THERE A PLACE FOR EXTERNAL SPORTS SPECIALISTS IN EXTRACURRICULAR SPORTS CLUB ACTIVITIES AT JAPANESE MIDDLE- AND HIGH-SCHOOLS?

Shimizu, Y. et al [Japan]

CP-SH01-5

EFFECT OF SPORTS INSTRUCTOR ON CHILDREN'S PHYSICAL ACTIVITY TIME IN NURSERY SCHOOL

Murai, R. et al [Japan]



Thursday, July 4, 2019

13:30 - 14:30

**CP-SH05 PSYCHOLOGY / MOTIVATION**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Johansen, B. [Norway]  
Mamen, A. [Norway]

CP-SH05-1

RELATIONSHIP OF EMPOWERING ENVIRONMENTS CREATED BY THE COACH AND PSYCHOLOGICAL NEEDS SATISFACTION TO MEXICAN ADOLESCENT-AGE ATHLETES' INTENTIONS TO CONTINUE PARTICIPATION

Ramírez-Mejía, J.J. et al [Mexico]

CP-SH05-2

DIFFERENCES IN PERCEIVED SOCIAL SUPPORT IN BOYS ENGAGING OR NOT ORGANIZED SPORT

Silva, G. et al [Portugal]

CP-SH05-3

INVESTIGATING CONFIDENCE AND SELF-EFFICACY RATINGS IN ATHLETIC TRAINING STUDENTS IN JAPAN: A LONGITUDINAL STUDY FROM JUNIOR THROUGH SENIOR YEAR.

IDE, Y. et al [Japan]

CP-SH05-4

GENDER DIFFERENCES IN THE GAME OF GO: PARENTS' EXPECTANCY AND VALUE BELIEFS ON YOUNG PARTICIPANTS

Chao, Y.C. et al [Taiwan]

CP-SH05-5

THE EFFECT OF NATIONALITY, GENDER, AND GRADE UPON MOTIVATION FOR PHYSICAL EDUCATION AMONG ELEMENTARY SCHOOL CHILDREN IN JAPAN AND SOUTH KOREA

Ikedo, T. et al [Japan]

CP-SH05-6

DOES AGE MATTER? A QUALITATIVE COMPARISON OF MOTIVES AND ASPECTS OF RISKS IN ADOLESCENT AND ADULT FREERIDERS

Frühau, A. et al [Austria]

CP-SH05-7

TEAM UNITY AS A PREDICTOR OF ATHLETE COMPETITIVE MOTIVATION

Kai, Y. [Japan]

CP-SH05-8

WHY DO FANS FOLLOW THE ATHLETES SOCIAL MEDIA (BRAND) PAGES?

Kajos, A. [Hungary]

CP-SH05-9

IMPLICIT AND EXPLICIT ACHIEVEMENT MOTIVES OF YOUNG ATHLETES

Knisel, E. et al [Germany]

**CP-MI09 TEAM SPORTS**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Sayers, M. [Australia]  
Dascombe, B. [Australia]

CP-MI09-1

A LONGITUDINAL COMPARISON OF ANAEROBIC PERFORMANCE IN ELITE CZECH JUNIOR ICE HOCKEY PLAYERS IN THE PERIOD 2001 TO 2018

Heller, J. et al [Czech Republic]

CP-MI09-2

THE ESTABLISHMENT OF PHYSICAL FITNESS AND TECHNICAL SKILLS EVALUATION INDEX FOR CHINESE PROFESSIONAL MEN'S BASKETBALL ATHLETES

Wang, Z. [China]

CP-MI09-3

ATHLETE MONITORING DURING WOMEN'S COLLEGIATE BASKETBALL PRE-SEASON

Jones, M.T. et al [United States]

CP-MI09-4

READINESS TO RE-PERFORM DURING A COMPETITIVE WEEKLY CYCLE IN U14 AND U16 MALE SOCCER PLAYERS

Lehnert, M. et al [Czech Republic]

CP-MI09-5

RELATIONSHIP BETWEEN CONDITIONING AND GPS PARAMETERS IN RUGBY PLAYERS TRAINING IN A SUMMER CAMP

Onishi, T. [Japan]

CP-MI09-6

SMALL-SIDED GAMES LEAD TO LOWER STIMULUS AND GREATER INTER-INDIVIDUAL VARIABILITY IN THE HEART RATE RESPONSE COMPARED TO INTERMITTENT RUNNING IN PREPUBERTAL SOCCER PLAYERS

MASSAMBA, A. et al [France]

CP-MI09-7

SPRINT THRESHOLDS AND LIMITS OF AGREEMENT IN TESTING MAXIMAL VELOCITY IN U16 FEMALE SOCCER PLAYERS

Hodun, M. et al [Germany]

CP-MI09-8

TEMPORARY FATIGUE DURING FUTSAL GAMES

Ohmuro, T. [Japan]

CP-MI09-9

CHANGE OF DIRECTION PERFORMANCE OF RUGBY PLAYERS: INFLUENCES OF PHYSICAL AND TECHNICAL ASPECTS

Freitas, T.T. et al [Spain]

CP-MI09-10

MODELLING THE OVERALL TECHNICAL PERFORMANCE IN YOUNG PORTUGUESE SOCCER PLAYERS. THE INEX PROJECT

Abarghoueinejad, M. et al [Portugal]

**CP-MI12 ENDURANCE**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Etzebarria, N. [Australia]  
Petersen, C. [New Zealand]

CP-MI12-1

SELF-SELECTED MUSIC REDUCES PERCEIVED EXERTION DURING HIGH-INTENSITY INTERVAL EXERCISE WITHOUT AFFECTING EXERCISE-INDUCED IMPROVEMENTS IN INHIBITORY CONTROL

Sugimoto, T. [Japan]

CP-MI12-2

THE USE OF RESTING HEART RATE AND HEART RATE VARIABILITY TO MONITOR STRESS AND PREDICT PERFORMANCE FOLLOWING HYPOXIC REPEATED SPRINT TRAINING IN RUGBY PLAYERS

Hamlin, M.J. et al [New Zealand]

CP-MI12-3

BODY & BOAT: SIGNIFICANCE OF MORPHOLOGY ON ELITE ROWING PERFORMANCE

Delarochelambert, Q. [France]

CP-MI12-4

MONITORING THE TRAINING RESPONSE IN A PROFESSIONAL FEMALE LONG-DISTANCE TRIATHLETE USING SUBMAXIMAL EXERCISE TESTS - A PRACTICAL SINGLE-CASE APPROACH

Schneider, C. et al [Germany]

CP-MI12-5

SOLDIERING TASKS' PHYSIOLOGICAL DEMANDS BY HEART RATE ZONE SCORES

Canino, M. et al [United States]

CP-MI12-6

THE PARKINSON CRITICAL HEART RATE TEST: USING THE CRITICAL POWER MODEL FOR PARKINSON DISEASE

Barbieri, R.A. et al [Brazil]

CP-MI12-7

INCREASED OXIDATION OF LIPID ENERGY SOURCES OCCURS INDEPENDENT OF CHANGES IN RUNNING ECONOMY AFTER AN EXERCISE INDUCED FATIGUE PROTOCOL

Kelly, L.P. et al [Canada]

CP-MI12-8

COMPLETE WIRELESS EMG PROTOTYPE (WELLFIT EMG) RELIABILITY VERIFICATION: COMPARING AMPLITUDE WITH TELEMIO DTS (NORAXON)

Kim, S. et al [Korea, South]

CP-MI12-9

LOCATION OPTIMISATION FOR IMUS IN THE DESIGN OF MOTION TRACKING SOCCER TIGHTS BASED ON SOFT TISSUE ARTEFACT ANALYSIS

Ahsmann, L.L. et al [Netherlands]

**CP-SH06 PSYCHOLOGICAL RESPONSES TO EXERCISE I**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Calogiuri, G. [Norway]  
Prats-Puig, A. [Spain]

CP-SH06-1

EFFECTS OF PHYSICAL ACTIVITIES AND SLEEPING HOURS LEVEL ON STRESS REACTIONS

Takanashi, M. et al [Japan]

CP-SH06-2

PHYSICAL ACTIVITY OF NURSERY SCHOOL TEACHERS AND THEIR PSYCHOLOGICAL STRESS.

Takeda, N. et al [Japan]

CP-SH06-3

PHYSICAL ACTIVITY, STRESS, AND SEDENTARY BEHAVIOR IN GRADUATE STUDENTS: THE PASS STUDY

Dunston, E. et al [United States]

CP-SH06-4

DANCE ON: CAN A COMMUNITY BASED DANCE PROGRAMME IMPROVE THE PHYSICAL AND PSYCHOLOGICAL WELL-BEING OF SOCIO-ECONOMICALLY DISADVANTAGED OLDER ADULTS?

Dingley, E. et al [United Kingdom]

CP-SH06-5

ASSOCIATION BETWEEN PHYSICAL ACTIVITY AND ANXIETY AMONG CHINESE COLLEGE STUDENTS: A CROSS-SECTIONAL STUDY

Ye, M. et al [China]

CP-SH06-6

RISK AND PROTECTIVE FACTORS: THE ROLE OF PHYSICAL ACTIVITY AT WORK OR DURING LEISURE TIME ON STRESS IN A HIGHLY STRESSED OCCUPATIONAL GROUP



# Conventional Print Poster Presentations

Bischoff, L.L. et al [Germany]

CP-SH06-7

ASSOCIATION BETWEEN PHYSICAL FITNESS AND ACADEMIC PERFORMANCE AMONG CHINESE COLLEGE STUDENTS

Xiang, F. et al [China]

CP-SH06-8

INVESTIGATION OF THE EFFECT OF AEROBIC EXERCISE TO THE UNIVERSITY STUDENTS CREATIVE LEVELS

Tekin, m. et al [Turkey]

## CP-SH07 PSYCHOLOGICAL RESPONSES TO EXERCISE II

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Weippert, M. [Germany]

Blancquaert, L. [Belgium]

CP-SH07-1

ARE SEDENTARY TIME AND PA ASSOCIATED WITH PERIMENOPAUSE RELATED DEPRESSIVE SYMPTOMS? THE FLAMENCO PROJECT.

Marín-Jiménez, N. et al [Spain]

CP-SH07-2

EFFECTS OF SITTING AND STANDING POSTURES ON PSYCHOLOGICAL AND PHYSIOLOGICAL STATES

Aya, T. et al [Japan]

CP-SH07-3

THE RATING OF FATIGUE SCALE: CONSTRUCT VALIDITY AND RESPONSIVENESS TO A TRAINING INTERVENTION

Dekerle, J. et al [United Kingdom]

CP-SH07-4

PSYCHOLOGICAL RESPONSES TO FOUR HIGH-INTENSITY INTERVAL EXERCISE PROTOCOLS

Marques, M. et al [Brazil]

CP-SH07-5

ENDURANCE PERFORMANCE AND PSYCHOPHYSIOLOGICAL RESPONSES TO SELF-PACED RUNNING EXERCISE FOLLOWING PARTIAL SLEEP

DEPRIVATION

Souissi, W. et al [France]

CP-SH07-6

EXERCISE DURING ISOLATION – DAILY VS. EVERY SECOND DAY EXERCISE PROTOCOLS AND THEIR (NEURO)PSYCHOPHYSIOLOGICAL EFFECTS

Abeln, V. et al [Germany]

CP-SH07-7

EFFECTS OF ALTERATIONS IN VISUAL FLOW ON PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO EXERCISE

Ando, S. et al [Japan]

CP-SH07-8

THE IMPACT OF CAMERA STABILITY ON CYBER SICKNESS, PRESENCE AND PSYCHOPHYSIOLOGICAL RESPONSES DURING A VIRTUAL WALK IN NATURE

Litleskare, S. et al [Norway]

## CP-PM09 MOLECULAR BIOLOGY

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Pérez López, A. [Spain]

Prats-Puig, A. [Spain]

CP-PM09-1

ENDURANCE TRAINING IMPROVES SKELETAL MUSCLE MITOCHONDRIAL FUNCTION IN OBESE SUBJECTS

Magnesa, B. et al [Italy]

CP-PM09-2

INTERFERENCE EFFECTS IN CONCURRENT TRAINING - COMPARISON OF ENDURANCE EXERCISE AND HIGH INTENSITY INTERVAL TRAINING AFTER RESISTANCE EXERCISE -

Shirai, T. et al [Japan]

CP-PM09-3

ELECTRIC PULSE STIMULATION PROTOCOL AS A MODEL OF RESISTANCE EXERCISE IN HUMAN MYOTUBES

Valero, M. et al [Chile]

CP-PM09-4

EFFECTS OF EXERCISE ON EXPRESSION OF MYOD, MYOGENIN, MEF2/MRNA IN HINDLIMB-SUSPENSION RAT SKELETAL MUSCLE

wang, y. [China]

CP-PM09-5

TIME COURSE EFFECTS OF VOLUNTARY RUNNING EXERCISE ON PROTEIN PRODUCTS OF IMMEDIATE EARLY GENES IN MURINE HIPPOCAMPUS

Yokokawa, T. et al [Japan]

CP-PM09-6

AEROBIC EXERCISE TRAINING AND DEHYDROEPIANDROSTERONE ADMINISTRATION INCREASE TESTICULAR SEX STEROID HORMONES AND ENHANCE REPRODUCTIVE FUNCTION IN OBESE RATS

Tatara, K. et al [Japan]

CP-PM09-7

THE EFFECT OF ACUTE BOUT OF RESISTANCE EXERCISE ON SKELETAL MUSCLE PROTEIN SYNTHESIS DURING LOW AMINO ACID CONCENTRATIONS IN RAT SKELETAL MUSCLE.

Sase, K. et al [Japan]

CP-PM09-8

IRISIN PREVENTS DEXAMETHASONE-INDUCED ATROPHY IN C2C12 MYOTUBES

Chang, J. et al [Korea, South]

CP-PM09-9

METABOLOME ANALYSIS OF SKELETAL MUSCLE BEFORE AND AFTER EXERCISE IN THOROUGH-BRED HORSES

Ohmura, H. et al [Japan]

CP-PM09-10

PHYSICAL INTERVENTION AND MYO-MICRORNA EXPRESSION ON SATELLITE CELLS OF ELDERLY

Pietrangelo, T. et al [Italy]

## CP-SH08 TEACHING AND COACHING EFFECTS ON CHILDREN

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Vago, P. [Italy]

CP-SH08-1

EFFECTS OF LONG-DISTANCE RUNNING IN SCHOOL PHYSICAL EDUCATION CLASSES WITH A FOCUS ON COMPETITION

Matsumoto, Y. et al [Japan]

CP-SH08-2

PHYSICAL ACTIVITY, PHYSICAL EDUCATION AND THE WATER IN WHICH WE SWIM

Spacey, H.L. et al [United Kingdom]

CP-SH08-3

THE MOTOR PROFICIENCY ASSESSMENT USING THE BRUININKS-OSERETSKY TEST, SECOND EDITION AT CZECH SCHOOL CHILDREN

Šeflová, I. et al [Czech Republic]

CP-SH08-4

EMPLOYING AN INTERDISCIPLINARY TEACHING APPROACH TO PHYSICAL EDUCATION ON CHILDREN'S ENGLISH AND MOTOR PERFORMANCES IN ELEMENTARY SCHOOL

Cichy, I. et al [Poland]

CP-SH08-5

ANALYSIS OF THE TECHNICAL INTERACTIONS OF A BASKETBALL TRAINING COACH: A CASE REPORT STUDY

Nieto Guisado, A. et al [Spain]

CP-SH08-6

LOAD CHARACTERISTICS OF SMALL-SIDED GAMES IN SOCCER FROM THE VIEWPOINT OF IMPROVEMENT IN PHYSICAL FITNESS: THE EFFECT OF RULE CHANGES

Tsuda, R. [Japan]

CP-SH08-7

COGNITIVE AND MOTOR EFFECTS OF A 9-WEEK TRAINING INTERVENTION WITH COMPLEX COORDINATION EXERCISES AND CONCURRENT COGNITIVE TASKS IN CHILDREN AGED 6 TO 10: A PARTLY RANDOMISED, CONTROLLED STUDY.

Sanfner, A. et al [Austria]

CP-SH08-8

THE EFFECTIVENESS OF PSYCHOLOGICAL WORKSHOPS FOR COACHES IN INCREASING WELL-BEING OF CHILDREN PRACTICING SOCCER AND GYMNASTICS

Wilczynska, D. et al [Poland]

## CP-PM11 OBESITY AND WEIGHT LOSS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Kaviani, M. [Canada]

Keytsman, C. [Belgium]

CP-PM11-1

EFFECT OF AEROBIC EXERCISE ON PLASMA 3-HYDROXYISOBUTYRATE LEVEL IN OVERWEIGHT AND OBESE MEN -COMPARISON BETWEEN NON-INSULIN RESISTANCE, PRE-INSULIN RESISTANCE AND INSULIN RESISTANCE-

Myoenzono, K. et al [Japan]

CP-PM11-2

CHANGES AND FOLLOW UP IN FITNESS, FATNESS AND PERCEIVED HEALTH AFTER A BRISK WALKING PROGRAM ONCE AGE AND LEVEL EDUCATION ARE CONSIDERED IN MODERATELY OBESE WOMEN

Garnier, S. et al [France]

CP-PM11-3

CARDIORESPIRATORY FITNESS ASSOCIATIONS WITH METABOLIC RISK FACTORS IN A COHORT OF 18-YEAR OLD ESTONIANS

Mäestu, E. et al [Estonia]

CP-PM11-4

EFFECT OF EXERCISE ALONE ON HEPATIC STEATOSIS: ARE BENEFITS SEEN BY META-ANALYSIS?

Baker, C.J. et al [Australia]

CP-PM11-5

COMBINED ASSOCIATION OF CHRONOTYPE AND EXERCISE HABITS ON CENTRAL OBESITY IN MIDDLE-AGED AND ELDERLY JAPANESE ADULTS: THE WASEDAS HEALTH STUDY

Ito, T. et al [Japan]

CP-PM11-6

EFFECTS OF TIME RESTRICTED FEEDING (16/8) ON ENERGY EXPENDITURE, BODY COMPOSITION AND PERFORMANCE

Haupt, S. et al [Germany]

CP-PM11-7

ENERGY REPLACEMENT DIMINISHES THE POST-PRANDIAL TRIGLYCERIDE-LOWERING EFFECT FROM ACCUMULATED WALKING IN POSTMENOPAUSAL WOMEN

Nagayama, C. et al [Japan]

CP-PM11-8

THE CHALLENGES OF MEETING ENERGY NEEDS - A CASE STUDY OF A SEMI-PROFESSIONAL FEMALE JIU-JITSU ATHLETE

Haudum, J. [Austria]

CP-PM11-9

EFFECTS OF RAPID WEIGHT LOSS ON IMMUNE FUNCTION IN COLLEGE JUDO ATHLETES

Hiraoka, H. et al [Japan]

## CP-MI15 AGEING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Keller, M. [Switzerland]

Franchi, M. [Italy]

CP-MI15-1

PHYSICAL ACTIVITY TO SLOW DOWN THE AGEING PROCESS; A LARGE CROSS-SECTIONAL POPULATION STUDY (THE LIFELINES COHORT)

van de Zande, S. et al [Netherlands]

CP-MI15-2

DO STEP LENGTH AND STEP FREQUENCY ASSOCIATE TO VO2 AND WALKING EFFICIENCY IN ELDERLY ACTIVE WOMEN?

Blasco-Lafarga, C. et al [Spain]

CP-MI15-3

STUDY ON THE BODY SHAPE, LOWER LIMB STRENGTH, FLEXIBILITY AND BALANCE ABILITY OF ELDERLY RESIDENTS IN BEIJING

Sun, J. [China]

CP-MI15-4

HANDGRIP STRENGTH AMONG MANUAL WORKERS IN THEIR FIFTH AND SIXTH DECADE OF LIFE

Norheim, K.L. et al [Denmark]

CP-MI15-5

RELATIONSHIP BETWEEN HANDGRIP STRENGTH, SIT-TO-STAND PERFORMANCE, AND OTHER COMMON PHYSICAL VARIABLES IN HEALTHY, ACTIVE, OLDER CZECHS

Steffl, M. et al [Czech Republic]

CP-MI15-6

INFLUENCE OF COGNITIVE INTERFERENCE TASKS ON GAIT PERFORMANCE BEFORE AND AFTER SUSTAINED COGNITIVE ACTIVITY IN OLDER ADULTS

Gube, M. et al [Germany]

CP-MI15-7

CHANGES IN THE COGNITIVE FUNCTION OF THE FINGERS AND TOES ASSOCIATED WITH AGING

Kunisa, S. et al [Japan]

CP-MI15-8

POSTURAL CONTROL DURING UNILATERAL AND BILATERAL EXTERNAL PERTURBATIONS IN YOUNG AND OLDER ADULTS

Ivanova, T.D. et al [Canada]

CP-MI15-9

LOWER EXTREMITY MUSCLE QUALITY IN RELATION TO GAIT PARAMETERS IN COMMUNITY-DWELLING MIDDLE-AGE AND OLDER ADULTS

Chen, L. [Taiwan]

CP-MI15-10

EFFECTS OF EXERCISE TRAINING ON HANDGRIP STRENGTH IN SENIORS: A META-ANALYTICAL REVIEW

Morat, M. et al [Germany]

## CP-MI03 TRAINING AND TESTING II

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Baudry, S. [Belgium]

Menz, V. [Austria]

CP-MI03-1

DIFFERENCES IN SPLIT-TIMES AND STROKE COUNTS BETWEEN JUNIOR AND SENIOR KAYAKERS DURING CANOE SLALOM COMPETITION

Hirano, T. et al [Japan]

CP-MI03-2

PEAK HEART RATE ANALYSIS IN AMATEUR SURFERS DEPENDING ON THE NUMBER OF MANEUVERS CARRIED OUT ON A WAVE.

Santisteban, A. [Spain]

CP-MI03-3

DIFFERENCES IN CHANGES OF PHYSICAL FITNESS AND ANTHROPOMETRICS OF FEMALE AND MALE RECRUITS DURING MILITARY SERVICE

Santtila, M. et al [Finland]

CP-MI03-4

ACUTE EFFECTS OF 300 SECONDS OF STATIC AND DYNAMIC STRETCHING ON FLEXIBILITY, MUSCLE EXTENSIBILITY AND THE SHEAR ELASTIC MODULI OF THE GASTROCNEMIUS MUSCLE-TENDON UNIT

Matsuo, S. et al [Japan]

CP-MI03-5

EFFECT OF NUMBER OF EXERCISE TRAINING SESSIONS ON ENOS EXPRESSION

Hieda, M. et al [Japan]

CP-MI03-6

THE EFFECT OF STATIC STRETCHING PROGRAM ON PASSIVE AND ACTIVE PROPERTY OF GAS-TROCNEMIUS MUSCLE TENDON UNIT

Nakamura, M. et al [Japan]

CP-MI03-7

REDI (ROBUST EXPONENTIAL DECREASING INDEX): AN ADAPTIVE AND ROBUST METHOD TO COMPUTE ACCUMULATED WORKLOAD

Moussa, I. et al [France]

CP-MI03-8

INTRA- AND interrater reliability of range of motion tests using a digital inclinometer or a measuring tape and inertial motion capture

Maltry, L. et al [Germany]

## CP-PM07 HYPOXIA

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Hoffmann, U. [Germany]

Girard, O. [Australia]

CP-PM07-1

RESPIRATORY EXERCISES DURING HIGH ALTITUDE (HA) EXPOSURE, HELP TO MAINTAIN A BETTER OXYGEN SATURATION IN NON-PROFESSIONAL CLIMBERS COUNTERACTING THE EFFECTS OF PROGRESSIVE HYPOXIA.

Ballerio, F. et al [Italy]

CP-PM07-2

MODERATE HYPOXIA PROMOTES SKELETAL MUSCLE CELL GROWTH AND HYPERTROPHY

Sakushima, K. [Japan]

CP-PM07-3

ELECTROENCEPHALOGRAPH AND PHYSIOLOGICAL RESPONSES TO ACUTE NORMOBARIC HYPOXIA

Uchimar, J. et al [Japan]

CP-PM07-4

HYPOXIA DOES NOT INFLUENCE POST-EXERCISE PROTEINURIA.

Joyce, K.E. et al [United Kingdom]

CP-PM07-5

THE EFFECTS OF BEETROOT JUICE ON APPETITE, ACYLATED GHRELIN AND ENERGY INTAKE AT 4300M SIMULATED ALTITUDE

Matu, J. et al [United Kingdom]

CP-PM07-6

EXERCISE-INDUCED HYPOXEMIA LEADS TO SPECIFIC ADAPTATIONS IN CARDIOVASCULAR SYSTEM DURING ACCLIMATIZATION TO MODERATE HYPOXIA

Durand, F. et al [France]

CP-PM07-7

HIGH ALTITUDE TRAINING CAMPS OF ELITE SWIMMERS - GENETIC, BIOCHEMICAL AND PHYSIOLOGICAL ASPECTS

Veselá, J. et al [Czech Republic]

CP-PM07-8

THE EFFECTS OF 2 WEEKS OF HIGH-INTENSITY TRAINING IN MODERATE AND MILD HYPOXIA ON EXERCISE PERFORMANCE AND AEROBIC CAPACITY IN HORSES

Mukai, K. et al [Japan]

CP-PM07-9

EFFECTS OF HYPOXIA ON POWER OUTPUTS AND MUSCLE GLYCOGEN UTILIZATION DURING REPEATED SPRINTS

Takuya, O. et al [Japan]

## CP-PM13 INJURY PREVENTION

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Pantano, K. [United States]

Cortis, C. [Italy]

CP-PM13-1

ASSOCIATION BETWEEN ANKLE DORSIFLEXION RANGE OF MOTION AND KNEE KINEMATICS DURING SINGLE-LEG LANDING BY SUBJECTS

# Conventional Print Poster Presentations

## WITH CHRONIC ANKLE INSTABILITY

Daira, M. et al [Japan]

## CP-PM13-2

THE EFFECT OF FOOT TAPING ON GAIT AND STATIC POSTURE OF YOUNG HEALTHY MALES

Inoue, Y. et al [Japan]

## CP-PM13-3

STRENGTH PROFILE, UNILATERAL AND BILATERAL IMBALANCES OF SOCCER PLAYERS DEPENDING ON AGE CATEGORY.

Ižovská, J. et al [Czech Republic]

## CP-PM13-4

INJURY INCIDENCE AND INJURY BURDEN IN U14 SOCCER PLAYERS OF A PROFESSIONAL CLUB ACCORDING TO THE MATURITY STATUS

Gil, S.M. et al [Spain]

## CP-PM13-5

RAPID BUT NOT MAXIMAL FORCE RATIOS ARE SIGNIFICANTLY REDUCED BY A PROFESSIONAL SOCCER MATCH

Pinto, R.S. et al [Brazil]

## CP-PM13-6

INJURIES IN ADOLESCENT SCHOOL BOY RUGBY PLAYERS: ARE THE CORRECT INJURY PREVENTION STRATEGIES BEING IMPLEMENTED?

Robinson, B. et al [South Africa]

## CP-PM13-7

CONTACT SPORTS: DENTAL INJURIES, MOUTH-GUARDS USE AND STAPHYLOCOCCUS AUREUS INFECTIONS. PILOT STUDY.

IONA, T. et al [Italy]

## CP-PM16 VITAMINE D / OTHER SUPPLEMENTS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Rasica, L. [Italy]

## CP-PM16-1

ANALYSIS OF THE VITAMIN D-STATUS OF YOUNG ELITE TEAM SPORT ATHLETES – STUDY CONCENTRATED ON FIELD HOCKEY PLAYERS

Broeckl-Popoli, F. et al [Germany]

## CP-PM16-2

PHYSIOLOGICAL AND PERFORMANCE RESPONSES TO BASIC MILITARY TRAINING IN CONSCRIPTS WITH DIFFERENT VITAMIN D STATUS

Õöpik, V. et al [Estonia]

## CP-PM16-3

ASSESSMENT OF VITAMIN NUTRITIONAL STATUS IN JAPANESE FEMALE COLLEGIATE ATHLETES

Nagasawa, T. et al [Japan]

## CP-PM16-4

DOES VITAMIN D SUPPLEMENTATION ENTAIL A 2X 2A FIBERTYPE SHIFT?

Nygaard, H. [Norway]

## CP-PM16-5

ASSOCIATION BETWEEN POLYMORPHISMS IN VITAMIN D PATHWAY-RELATED GENES, VITAMIN D STATUS, MUSCLE MASS AND FUNCTION: A SYSTEMATIC REVIEW

Krasniqi, E. et al [Austria]

## CP-PM16-6

AN ANTI-OBESITY EFFECT OF FUcoxanthin SUPPLEMENTATION AND LOW INTENSITY/VOLUME EXERCISE IN DIET-INDUCED OBESE MICE.

Yoshikawa, M. et al [Japan]

## CP-PM16-7

DIETARY CARNOSINE INTAKE IMPROVES OUTCOMES IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

Spaas, J. et al [Belgium]

## CP-PM16-8

A COMPARISON OF THE EFFECTS OF THREE TYPES OF COMMERCIAL BOTTLED TEA BEVERAGES ON EXHAUSTIVE EXERCISE-INDUCED FATIGUE IN ACTIVE MEN

Lin, H.Y. et al [Taiwan]

## CP-PM16-9

SUPPLEMENTATION WITH PEQUI OIL DOES NOT INDUCE BLOOD PRESSURE REDUCTION IN NORMOTENSIVE MEN AFTER STRENGTH TRAINING

Dutra, M. et al [Brazil]

## CP-PM19 ERGOGENIC AIDS / OTHER SUPPLEMENTS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Triska, C. [Austria]  
Wardenaar, F. [United States]

## CP-PM19-1

EFFECTS OF A BRANCHED-CHAIN AMINO ACIDS-ALANINE- SUPPLEMENTATION INTAKE IN HIGH INTENSITY ENDURANCE CYCLING TESTS

Gervasi, M. et al [Italy]

## CP-PM19-2

ACUTE EFFECT OF CAFFEINATED GUM ON SWIMMING SPRINT PERFORMANCE AND SUBSEQUENT INTERVAL SESSION

Guglielmo, L.G.A. et al [Brazil]

## CP-PM19-3

ASSOCIATION OF GENETIC POLYMORPHISMS WITH THE THERAPEUTIC EFFECTS OF IRON SUPPLEMENTATION IN ATHLETES WITH LOW IRON RESERVES

WANG, C. [China]

## CP-PM19-4

EFFECT OF CREATINE SUPPLEMENTATION ON NEUROMUSCULAR FATIGUE WHEN CYCLING ABOVE CRITICAL POWER.

Schaefer, L. et al [United Kingdom]

## CP-PM19-5

EFFECTS OF EXOGENOUS KETONE SUPPLEMENTATION AND COOLING ON SUBSTRATE METABOLISM AND EXERCISE PERFORMANCE IN ACTIVE HEALTHY MALES

Clark, D. et al [Canada]

## CP-BN09 MOTOR LEARNING AND MOTOR CONTROL

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Giboin, L. [Germany]  
Andersen, J. [United States]

## CP-BN09-1

EFFECT OF RHYTHMIC LOWER LIMB MOVEMENTS ON THE PERFORMANCE OF MULTI-LIMB RHYTHMIC MOVEMENT

Qi, W. et al [Japan]

## CP-BN09-2

RELATIONSHIP BETWEEN PITCHING ACCURACY AND MUSCLE ACTIVITIES IN SKILLED BASEBALL PITCHERS

Kuwata, M. et al [Japan]

## CP-BN09-3

DEVELOPMENT OF THE IMMERSIVE 3D-VR TRAINING SYSTEM FOR ENHANCING SPORTS VISION IN SPIKE RECEIVE -THE EFFECT VERIFICATION OF HAND-EYE COORDINATION -

Yuki, H. et al [Japan]

## CP-BN09-4

COMPARISON OF MUSCLE ACTIVITY AND MUSCLE FATIGUE DURING RUNNING EXERCISE ON NON-MOTORIZED TREADMILL, MOTORIZED TREADMILL AND OVERGROUND.

JANG, J.S. et al [Korea, South]

## CP-BN09-5

ELECTROMYOGRAPHIC ANALYSIS OF DIFFERENT CYCLIC LOCOMOTION IN HUMAN

Shpakov, A. et al [Russia]

## CP-BN09-6

ACUTE EFFECTS OF DIFFERENT EXERCISE MODALITIES ON ANKLE FORCE SENSE IN YOUNG AND OLD ADULTS

Smajla, D. et al [Slovenia]

## CP-BN09-7

LEARNING ADVANTAGES OF AN EXTERNAL RELATIVE TO AN INTERNAL FOCUS INSTRUCTIONS IN CHILDREN WITH HIGH AND LOW LEVELS OF

## MOTOR IMAGERY ABILITY

Abdollahipour, R. et al [Czech Republic]

## CP-BN09-8

AGE AS A MODULATOR OF PHYSICAL EXERCISE EFFECTS ON LEARNING A PERCEPTUAL-MOTOR TASK

Ferrer-Uris, B. et al [Spain]

## CP-BN09-9

CROSS-ACTIVATION LEVELS OF QUADRICEPS MUSCLE DURING UNILATERAL CONCENTRIC AND ECCENTRIC KNEE ISOKINETIC CONTRACTIONS

Eraslan, L. et al [Turkey]

## CP-BN09-10

BILATERAL CHARACTERISTICS IN STRAIN OF ILIOTIBIAL BAND AND LOWER EXTREMITIES ALIGNMENT IN MIDDLE-DISTANCE RUNNERS

Kim, D. et al [Japan]

## CP-PM20 GENOMICS / MOLECULAR METABOLISM

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Franzoni, F. [Italy]

## CP-PM20-1

PERIPHERAL TISSUE ADAPTATIONS TO HIGH INTENSITY INTERMITTENT VS. MODERATE CONTINUOUS AEROBIC TRAINING IN SPONTANEOUSLY HYPERTENSIVE RATS

Mauriège, P. et al [Canada]

## CP-PM20-2

THE ASSOCIATION OF ACTN3 R577X POLYMORPHISM WITH ELITE JAPANESE ATHLETE STATUS BY VARIOUS SPORT EVENTS

Akazawa, N. et al [Japan]

## CP-PM20-3

EFFECTS OF COMBINED TRAINING ON THE EXPRESSION OF GENES RELATED TO BROWNING AND AUTOPHAGY IN SUBCUTANEOUS ADIPOSE TISSUE OF INDIVIDUALS WITH OVERWEIGHT AND TYPE 2 DIABETICS

Bonfante, I.L.P. et al [Brazil]

#### CP-PM20-4

IMPACT OF PARTICIPATING TO A 330 KM LONG ULTRA-TRAIL VERSUS A 67 KM SHORT ULTRA-TRAIL ON MUSCULAR AND CARDIAC GENETIC REGULATION BY MICRORNAS.

Le Goff, C. et al [Belgium]

#### CP-PM20-5

EVALUATION OF EXERCISE-INDUCED MUSCLE DAMAGE USING URINARY TITIN N-TERMINAL FRAGMENT AT REPEATED BOUT EFFECT

Yamaguchi, S. et al [Japan]

#### CP-PM20-6

THE EFFECT OF SWIM EXERCISE ON THE DEXA-METHASONE-INDUCED DECREASE IN SKELETAL MUSCLE MASS AND MITOCHONDRIAL ENERGY METABOLISM IN RATS

Flis, D.J. et al [Poland]

#### CP-PM20-7

THE IMPACT OF EXERCISE MODE AND INTENSITY ON EXERCISE INDUCED GASTROINTESTINAL DAMAGE

Edwards, K. et al [Australia]

### CP-PM08 AGEING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Cupeiro Coto, R. [Spain]

Couppé, C. [Denmark]

#### CP-PM08-1

EFFECTS OF PROGRESSIVE RESISTANCE TRAINING ON MUSCLE FUNCTIONS, BODY COMPOSITION, GROWTH FACTORS, AND PRO-INFLAMMATORY CYTOKINE IN HEALTHY ELDERLY

Tsai, S.H. et al [Taiwan]

#### CP-PM08-2

CORRELATION BETWEEN AEROBIC CAPACITY AND BALANCE IN BLACK AFRICAN WOMEN FROM A LOW-RESOURCED COMMUNITY IN SOUTH AFRICA

Tamulevicius, N. et al [United States]

#### CP-PM08-3

EXERCISE INTENSITY AND ENERGY EXPENDITURE OF THE ELDERLY DURING A PETANQUE GAME

Chen, H.W. et al [Taiwan]

#### CP-PM08-4

EFFECTS OF A HEALTH PROMOTION PROGRAM FOR OLDER ADULTS IN THE HANDGRIP STRENGTH TEST COMPARED TO THE GENERAL POPULATION

Río-de Frutos, X. et al [Spain]

#### CP-PM08-5

EIGHT-WEEK OF NEUROMUSCULAR ELECTRICAL STIMULATION TRAINING IMPROVES MUSCLE STRENGTH AND REDOX HOMEOSTASIS IN OLDER MALE INDIVIDUALS

Jandova, T. et al [Italy]

#### CP-PM08-6

EFFECTS OF SHORT TERM KETTLEBELL EXERCISE ON THE MUSCLE OF LOWER LIMB AND WALKING FUNCTIONS OF ELDERLY WOMEN.

GI DUCK, P. et al [Korea, South]

#### CP-PM08-7

THE VARIATION IN PERCEPTION OF FATIGUE IN ELDERLY

Saito, Y. et al [Japan]

#### CP-PM08-8

PLASMA NOREPINEPHRINE LEVEL AND LIFESTYLE HABITS IN KOREAN ELDERLY PEOPLE WITH ORTHOSTATIC HYPOTENSION

Kim, N. [Korea, South]

#### CP-PM08-9

THE EFFECTS OF UNSTEADY SLOPE TREADMILL WALKING ON PHYSIOLOGICAL RESPONSES DURING UNSTEADY WORKLOAD EXERCISE IN THE ELDERLY

NISHIMURA, K. et al [Japan]

#### CP-PM08-10

THE EFFECT OF HIGH INTENSITY INTERVAL TRAINING (HIIT) ON IL-6, HOMOCYSTEINE, AND C-REACTIVE PROTEIN IN MASTERS ATHLETES AND SEDENTARY OLDER MALES

Hayes, L.D. et al [United Kingdom]

### CP-PM12 GENDER

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Ferri, A. [Australia]

#### CP-PM12-1

THE EFFECTS OF EXERCISE HABITS AND SEX ON IMMUNE RESPONSE IN DIFFERENT EXERCISE INTENSITIES

Kumazawa, Y. et al [Japan]

#### CP-PM12-2

FACTORS AFFECTING PERFORMANCE ON AN ARMY URBAN OPERATION CASUALTY EVACUATION FOR MALE AND FEMALE SOLDIERS

Reilly, T. [Canada]

#### CP-PM12-3

RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND MUSCULOSKELETAL DISORDERS IN MEN AND WOMEN 19-64 YEARS OLD

Mokhlesabadifarahani, A. [Iran]

#### CP-PM12-4

IMPACT OF DIFFERENT MODES OF EXERCISE IN FITNESS LEVELS AND BODY COMPOSITION IN WELLNESS EXERCISE POPULATION.

Ayuso chico, M. et al [Spain]

#### CP-PM12-5

ASSOCIATION LIVING ARRANGEMENT WITH PHYSICAL ACTIVITY LEVELS AMONG YOUTH IN SHANGHAI, CHINA

Cao, Z.B. et al [China]

#### CP-PM12-6

THE EFFECT OF AGE, TRAINING STATUS, GENDER AND GENES ON MAXIMAL STRENGTH TRAINING ADAPTABILITY

Goleva-Fjellet, S. et al [Norway]

#### CP-PM12-7

A GENDER COMPARISON OF MUSCULOSKELETAL DISORDERS, PAIN AND FORWARD HEAD POSTURE AMONG OFFICE WORKERS

Depreli, O. et al [Cyprus]

#### CP-PM12-8

PREVALENCE OF CHRONIC ANKLE INSTABILITY AND HISTORY OF ANKLE SPRAIN IN MALE AND FEMALE COLLEGIATE ATHLETES

Koumura, T. et al [Japan]

#### CP-PM12-9

EXPLORING THE EFFECTIVENESS FOR CARDIO TRAINING WHILE OPERATING OUTDOOR FITNESS EQUIPMENT

Chang, K.T. et al [Taiwan]

### CP-PM21 CARDIOVASCULAR ATHLETES

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Crisafulli, A. [Italy]

Haapala, E. [Finland]

#### CP-PM21-1

F-MARC: THE BEDROCK OF THE CARDIOVASCULAR SCREENING OF HIGHLY TRAINED FOOTBALL PLAYERS VERSUS CLASSIC PRE-PARTICIPATION EVALUATION

Stoian, I.M. et al [Romania]

#### CP-PM21-2

COMPARISON OF CAROTID INTIMA-MEDIA THICKNESS OF LONG-DISTANCE RUNNERS WITH OR WITHOUT EXERCISE-INDUCED HYPERTENSION

Kim, Y.J. et al [Korea, South]

#### CP-PM21-3

AUTONOMIC NERVOUS SYSTEM RESPONSE OF TEAM SPORT AND ENDURANCE TRAINED ATHLETES TO THE 30-15 INTERMITTENT FITNESS TEST

Hoos, O. et al [Germany]

#### CP-PM21-4

INFLUENCE OF HIGH TEMPERATURE ENVIRONMENT ON CIRCULATORY DYNAMICS OF BRAIN AND ACTIVE MUSCLE DURING ENDURANCE EXERCISE.

Sugane, H. et al [Japan]

#### CP-PM21-5

ARTERIAL STIFFNESS IN YOUNG MALE ATHLETES OF VARIOUS SPORTS

Yoshioka, M. et al [Japan]

#### CP-PM21-6

ACUTE EFFECTS OF HIGH-INTENSITY INTERVAL EXERCISE COMPARED WITH MODERATE-INTENSITY CONTINUOUS EXERCISE ON ARTERIAL STIFFNESS IN HEALTHY YOUNG ADULTS

LEE, R. et al [Korea, South]

#### CP-PM21-7

EFFECTS OF INGESTING OXYGENATED WATER ON HEART RATE AND BLOOD LACTATE DURING SIMULATED GAMES IN TAEKWONDO ATHLETES

Chung, Y.K. et al [Taiwan]

#### CP-PM21-8

EFFECT OF HIGH INTENSITY INTERVAL TRAINING (HIIT) ON PERFORMANCE AND VASCULAR FUNCTION IN ELITE TRIATHLETES

Hayate, N. et al [Japan]

#### CP-PM21-9

ASSOCIATION BETWEEN PHYSICAL FITNESS AND CARDIOVASCULAR RESPONSES TO ACUTE STRESS IN MILITARY FIREFIGHTERS

Speretta, G.F. et al [Brazil]

#### CP-PM21-10

EFFECTS OF INCREASED CALF VENOUS COMPLIANCE WITH ENDURANCE TRAINING ON CIRCULATORY RESPONSES TO ACUTE EXERCISE

limura, Y. et al [Japan]



# Conventional Print Poster Presentations

Friday, July 5, 2019

13:30 - 14:30

## CP-MI10 STRENGTH AND POWER

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Iglesias-Soler, E. [Spain]  
Kristiansen, M. [Denmark]

CP-MI10-1  
RELIABILITY OF POWER AND VELOCITY VARIABLES COLLECTED DURING THE BENCH PULL EXERCISE  
Pérez-Del Río, A. et al [Austria]

CP-MI10-2  
LOAD DISTRIBUTION DURING SUSPENSION TRAINING EXERCISE  
Fusco, A. et al [Italy]

CP-MI10-3  
CORRELATION BETWEEN POWER CAPABILITIES AND THROWING PERFORMANCE IN FEMALE ATHLETES  
Duca, M. et al [Italy]

CP-MI10-4  
CHANGES IN EMG ACTIVITY OF GLUTEUS MAXIMUS AND STRENGTH AFTER SQUAT MASTERING PROGRAM – CASE STUDY  
Chudý, J. et al [Slovakia]

CP-MI10-5  
POWER - MASS CURVE PARAMETERS IN DEEP SQUAT: ACCELERATION VS. CONCENTRIC PHASE OF MOTION  
Buzgó, G. et al [Slovakia]

CP-MI10-6  
WHICH ANTHROPOMETRIC AND LOWER BODY POWER VARIABLES ARE PREDICTIVE OF PROFESSIONAL AND AMATEUR PLAYING STATUS IN MALE RUGBY UNION PLAYERS?  
Jones, T. et al [Qatar]

CP-MI10-7  
PREDICTION OF SHOOTING SPEED IN NATIONAL WOMEN'S HANDBALL TEAMS  
Saavedra, J.M. et al [Iceland]

## CP-SH09 MORALITY AND CHARACTER DEVELOPMENT

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Hedenborg, S. [Sweden]

CP-SH09-1  
ATTITUDES TOWARDS OPPONENTS IN SPORTS  
Grushko, A. et al [Russia]

CP-SH09-2  
CHARACTERISTICS OF HARASSMENT BY COACHES IN JUNIOR HIGH SCHOOL, HIGH SCHOOL, AND UNIVERSITY IN THE JAPANESE SPORTS SETTINGS  
Horimoto, N. et al [Japan]

CP-SH09-3  
EXPLORING THE TEACHING STRATEGIES FOR TEACHING FILED GAMES FROM THE PERSPECTIVE OF CREATIVITY & CHARACTER EDUCATION  
Shin, K. [Korea, South]

CP-SH09-4  
IT'S HARDER TO PUSH WHEN I HAVE TO PUSH HARD! THE LEVEL OF CONCURRENT PHYSICAL EXERTION AFFECTS DECISION-MAKING ON HYPOTHETICAL MORAL DILEMMAS  
Weippert, M. et al [Germany]

CP-SH09-5  
OTHER DOPING CONTROLS. ONE PROCEDURE VISION TO REVISION  
Mirabet-Agulló, R. et al [Spain]

CP-SH09-6  
RELATIONSHIP BETWEEN COMPETITION LEVEL, ANTI-DOPING LEARNING MOTIVATION, AND CONFIRMATION BEHAVIOR REGARDING PROHIBITED SUBSTANCES AMONG JAPANESE UNIVERSITY ATHLETES: A CROSS-SECTIONAL STUDY  
Murofushi, Y. et al [Japan]

CP-SH09-7  
LIFELONG LEARNING: TO THE CORE OF DEVELOPMENT BETWEEN SPORT AND CULTURE OF SAFETY.  
Joffroy, S. et al [France]

CP-SH09-8  
OCCUPATIONAL HEALTH AND SAFETY AWARENESS IN ELITE RUGBY  
Chen, Y. et al [Ireland]

CP-SH09-9  
GOOD REFEREES ARE NOT NICE. PERSONALITY EFFECTS ON FOOTBALL REFEREE DECISION-MAKING  
Gräfe, A. et al [Germany]

## CP-SH10 TEAM FUNCTIONING AND LEADERSHIP

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Bjørndal, C. [Norway]

CP-SH10-1  
COACHES' LEADERSHIP PROFILE IN TRADITIONAL ROWING: TRAINERS  
León Guereño, P. [Spain]

CP-SH10-2  
PERCEIVED COACH LEADERSHIP STYLE AND PSYCHOLOGICAL WELL-BEING AMONG SOUTH AFRICAN NATIONAL MALE WHEELCHAIR BASKETBALL PLAYERS.  
Jooste, J. [South Africa]

CP-SH10-3  
IMPLEMENTING A SHARED LEADERSHIP PROGRAM IN INDIVIDUAL SPORTS AN INTERVENTION STUDY MEASURING THE EFFECTIVENESS OF SHARED LEADERSHIP IN ATHLETICS GROUPS  
Bulteel, M. et al [Belgium]

CP-SH10-4  
A NETWORK APPROACH TO UNDERSTANDING TEAM WORK IN AUSTRALIAN FOOTBALL  
Young, C. [Australia]

CP-SH10-5  
CONFLICTS OF TEAM BUILDING IN THE SPORTS ENVIRONMENT  
Németh, Zs. [Hungary]

CP-SH10-6  
MEASURING ROLE PERCEPTION IN TEAM SPORTS: THE VALIDATION OF THE CHINESE VERSION OF ROLE AMBIGUITY SCALE (RAS)  
Ho, W.J. et al [Taiwan]

CP-SH10-7  
PSYTOOL: SPORT PSYCHOLOGY AS A THEORETICAL FRAME TO PROMOTE A POSITIVE ATTITUDE IN GRASSROOT SPORTS  
Sáez de Villarreal, E. et al [Spain]

## CP-MI13 SWIMMING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Gonjo, T. [Norway]

CP-MI13-1  
ANALYSIS OF THE INFLUENCING FACTORS OF LEG EXTENSION DURING THE WALKOUT MOVEMENT IN ARTISTIC SWIMMING  
Kaho, M. [Japan]

CP-MI13-2  
THE SESSION RPE BREAKPOINT CORRESPONDING TO INTENSITY THRESHOLDS IN OPEN WATER SWIMMERS  
Ieno, C. et al [Italy]

CP-MI13-3  
SLEEPING HIS WAY TO AN ASIAN GAMES MEDAL  
Tan, A. [Singapore]

CP-MI13-4  
COMPARISON OF SWIMMING START IN 100 M EVENTS AMONG GENERATIONS OF JAPANESE COMPETITIVE SWIMMERS  
Suito, H. et al [Japan]

CP-MI13-5  
EFFECT OF BODY COOLING ON PERFORMANCE IN TRIATHLON COMPETITIONS ~DOES PRECOOLING

SWIMMING IMPROVE PERFORMANCE? ~  
Nakashima, D. [Japan]

CP-MI13-6  
THE EFFECT OF DIFFERENCE ACTIVE RECOVERY PROTOCOLS ON BLOOD LACTATE CLEARANCE IN YOUNG SWIMMERS  
Chaipatpreecha, N. [Thailand]

CP-MI13-7  
EFFECT OF 6-WEEK INSPIRATORY MUSCLE TRAINING ON DIAPHRAGM AND ACCESSORY RESPIRATORY MUSCLE FUNCTIONS IN ELITE SWIMMERS  
Ando, R. et al [Japan]

CP-MI13-8  
DIFFERENCES OF INTER-LIMB COORDINATION BETWEEN SYNCHRONIZED SWIMMERS AND NON-SYNCHRONIZED SWIMMERS: A PILOT STUDY  
Vathagavorakul, R. et al [Japan]

CP-MI13-9  
COMPARISONS OF GENDER-RELATED HEMATOLOGICAL, HORMONAL AND FITNESS INDICES IN YOUTH SWIMMERS  
Qiu, J. et al [China]

## CP-SH11 EXERCISE, COGNITION AND PERFORMANCE I

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Ludyga, S. [Switzerland]  
Bruce, L. [Australia]

CP-SH11-1  
THINK ALOUD: UNLOCKING DUATHLETES THOUGHT PROCESSES  
McEwan, H. et al [United Kingdom]

CP-SH11-2  
HIGH LEVEL FOOTBALL PLAYERS' ABILITY TO USE IMPLICIT INFORMATION AS AFFORDANCES FOR ACTION  
BEAVAN, A. et al [Germany]

## CP-SH11-3

SELF-TALK, AUDITORY DISTRACTION, AND PERFORMANCE ACCURACY IN BASKETBALL FREE THROW SHOOTING

Warren Friedrich, K. et al [Denmark]

## CP-SH11-4

CAN YOU REACH IT? THE INFLUENCE OF TENNIS EXPERIENCE ON PERIPERSONAL SPACE

Zavadska, A. et al [Germany]

## CP-SH11-5

EFFECT OF MICROGRAVITY ON BEHAVIORAL AND NEURONAL PERFORMANCE

Wollseiffen, P. [Germany]

## CP-SH11-6

THE EFFECT OF COMBINED COGNITIVE AND EXERCISE TRAINING ON WORKING MEMORY PERFORMANCE AND BRAIN SIGNAL COMPLEXITY

Guo, G.W. et al [Taiwan]

## CP-SH11-7

EFFECTS OF ACUTE AEROBIC EXERCISE ON DELAYED FREE-RECALL PERFORMANCE

Kamijo, K. et al [Japan]

## CP-SH11-8

INFLUENCE OF EXPERTISE AND GAME TIME ON FOOTBALL REFEREE DECISIONS

Graefe, A. et al [Germany]

**CP-PM10 ORTHOPEDICS**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Niederer, D. [Germany]

Gil, S. [Spain]

## CP-PM10-1

EXPOSURE-ADJUSTED INJURY INCIDENCE RATES IN OLYMPIC COMBAT SPORTS: A COMPARATIVE STUDY OF THREE CONSECUTIVE OLYMPIC GAMES

Ilystad, R.P. et al [Australia]

## CP-PM10-2

VERIFICATION OF POSTURE IMPROVEMENT EFFECT OF PHYSICAL FUNCTION IMPROVEMENT

## TRAINING AND POSTURE LEARNING

KUDO, S. et al [Japan]

## CP-PM10-3

PREVALENCE OF LUMBAR DISC DEGENERATION IN COLLEGIATE RUNNERS

Kubo, Y. et al [Japan]

## CP-PM10-4

EFFECT OF A 3-DIMENSIONAL COMBINED EXERCISE INTERVENTION PROGRAM FOR THE REDUCTION OF SCOLIOSIS ANGLE IN PATIENTS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS

AHN, S. et al [Korea, South]

## CP-PM10-5

CROSS-CULTURAL ADAPTATION, TRANSLATION IN FRENCH AND VALIDATION OF THE

Kaux, J.F, Bornheim, S. et al [Belgium]

## CP-PM10-6

REVIEW OF SCAPULAR MOVEMENT DISORDERS AMONG ADULTS WITH FORWARD HEAD POSTURE

Angin, E. et al [Cyprus]

## CP-PM10-7

THE EFFECTS OF COMPETITION LEVEL ON THE PREVALENCE OF LUMBAR DISC DEGENERATION IN GYMNASTS

Koyama, K. et al [Japan]

## CP-PM10-8

PREVALENCE OF CHRONIC ANKLE INSTABILITY IN COLLEGIATE ATHLETES: THE INTERNATIONAL ANKLE CONSORTIUM DIAGNOSED CRITERIA

Udompanich, N. et al [Thailand]

## CP-PM10-9

THE CHONDROPROTECTIVE EFFECT OF EARLY PASSIVE MOTION COMBINED WITH INTRA-ARTICULAR PLATELET-RICH PLASMA (PRP) INJECTIONS ON ARTICULAR CARTILAGE AFTER ACUTE ANTERIOR CRUCIATE LIGAMENT RUPTURE

ChunHao, L. [Taiwan]

## CP-PM10-10

ACUTE EFFECTS OF SELF-MYOFASCIAL RELEASE WITH FOAM ROLLING ON FLEXIBILITY, ARTERIAL STIFFNESS AND AUTONOMIC NERVOUS SYSTEM

## FUNCTION IN WOMEN

LEE, C. [Korea, South]

**CP-SH12 EXERCISE, COGNITION AND PERFORMANCE II**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Johansen, B. [Norway]

Latella, C. [Australia]

## CP-SH12-1

EFFECT OF DIFFERENT COGNITIVE TASKS ON DUAL-TASK PERFORMANCE

Zhang, L. et al [Japan]

## CP-SH12-2

FUNCTIONAL CAPACITY, ISOKINETIC LEG STRENGTH AND SLEEP QUALITY CORRELATE WITH COGNITIVE FUNCTION IN MULTIPLE SCLEROSIS PATIENTS

Giannaki, C. et al [Cyprus]

## CP-SH12-3

THE RELATION BETWEEN PERCEPTUAL-COGNITIVE SKILLS AND COGNITIVE FUNCTIONS IN YOUTH VOLLEYBALL PLAYERS

De Waelle, S. et al [Belgium]

## CP-SH12-4

DOES A MENTAL TASK CAN INFLUENCE YOUR PHYSICAL PERFORMANCE? THE NEGATIVE EFFECT OF THE CONTROL CONDITION

Mangin, T. et al [France]

## CP-SH12-5

ASSOCIATION BETWEEN LOCOMOTIVE SYNDROME AND COGNITIVE FUNCTION IN COMMUNITY-DWELLING OLDER ADULTS IN JAPAN

Fujita, K. [Japan]

## CP-SH12-6

SOMATOSENSORY DYSFUNCTION IN CHILDREN WITH DEVELOPMENTAL COORDINATION DISORDER

Tseng, Y.T. et al [Taiwan]

## CP-SH12-7

MEDIATION OF GLOBAL SELF-WORTH ON THE RELATIONSHIP BETWEEN DEVELOPMENTAL COORDINATION DISORDER AND INTERNALIZING PROBLEMS IN GRADE 3 CHILDREN

LI, Y.C. et al [Taiwan]

## CP-SH12-8

THE EFFECT OF ENVIRONMENTAL CONDITIONS ON DECISION MAKING OF FOOTBALL REFEREES' SCOOT, C. et al [United Kingdom]

**CP-MI16 APP AND METHOD DEVELOPMENT**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Wiesinger, H. [Austria]

## CP-MI16-1

VALIDATION OF SMARTPHONE APP VOICE RECOGNITION PHYSICAL ACTIVITY SYSTEMS USING TRI-AXIAL ACCELEROMETER

Namba, H. [Japan]

## CP-MI16-2

DEVELOPMENT OF A MACHINE LEARNING METHOD TO EVALUATE KARATE SKILLS FROM INERTIAL SENSOR DATA

Shimpei, A. et al [Japan]

## CP-MI16-3

A MOBILE APPLICATION FOR HOME-BASED EXERCISE INTERVENTION FOR PEOPLE LIVING WITH HIV

Plebani, M. et al [Italy]

## CP-MI16-4

VALIDITY AND RELIABILITY OF A SMARTPHONE MOTION ANALYSIS APP FOR LOWER LIMB KINEMATICS DURING RUNNING

Mousavi, S.H. et al [Netherlands]

## CP-MI16-5

FAT CONTENT AND MUSCLE QUALITY OF THE QUADRICEPS MUSCLE ASSESSED BY ELECTRICAL IMPEDANCE MYOGRAPHY: CORRELATIONS WITH ULTRASOUND MEASUREMENTS

Longo, S. et al [Italy]

## CP-MI16-6

CONTINUOUS MEASUREMENT OF ACETONE RELEASE DURING CYCLING AS A BIOMARKER FOR PHYSIOLOGICAL METABOLIC STATE; A PILOT STUDY.

Kupers, B.A.M. et al [Netherlands]

## CP-MI16-7

NIRS ON A FUNCTIONAL SCALE OF 0-100%: ESTABLISHING PRACTICALITY OF THE MOXY MONITOR FOR SPORT SCIENCE

Feldmann, A. et al [Switzerland]

## CP-MI16-8

SENSOR-BASED OBJECTIVE MEASUREMENT OF PHYSICAL ACTIVITY IN SWISS ARMED FORCES

Oeschger, R. et al [Switzerland]

## CP-MI16-9

THE ESTIMATION OF CALORIC CONSUMPTION ON A NEW ELLIPTICAL MACHINE

Fedele, G. et al [Italy]

**CP-MI04 TRAINING AND TESTING III**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Hansen, E. [Denmark]

Dascombe, B. [Australia]

## CP-MI04-1

FINGER AND BALL MOVEMENT AT RELEASE IN RELATION TO ACCURACY IN BASEBALL PITCHING

Kusafuka, A. [Japan]

## CP-MI04-2

PERFORMANCE ANALYSIS IN PROFESSIONAL ICE HOCKEY: USING TRACKING DATA TO COMBINE TACTICAL AND PHYSIOLOGICAL ANALYSIS

KOMAR, J. et al [France]

## CP-MI04-3

QUANTIFYING COLLECTIVE PERFORMANCE IN RUGBY UNION.

Saulière, G. et al [France]

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## CP-MI04-4

DOES DIFFERENT FACIAL DIRECTION INFLUENCE THE SWIMMER'S HORIZONTAL POSTURE?

Moriyama, S. et al [Japan]

## CP-MI04-5

ANALYSIS OF FACTORS INFLUENCING THE HEIGHT OF THRUST MOTION IN ARTISTIC SWIMMING

Muro, O. [Japan]

## CP-MI04-6

ASYMMETRIES OF MUSCLE STRENGTH IN LOWER LIMB MUSCLE TWITCH DURING STRETCH-SHORTENING CYCLE MOVEMENT IN COLLEGIATE ALPINE SKIER

Kashiwagi, Y. et al [Japan]

## CP-MI04-7

ESTIMATION OF HAND PROPULSIVE FORCES AT FOUR SWIMMING TECHNIQUES USING PRESSURE MEASUREMENT AND UNDERWATER MOTION CAPTURE

Tsunokawa, T. et al [Japan]

## CP-MI04-8

THE INFLUENCE OF SKI WIDTH ON PERCEPTUAL CHARACTERISTICS DURING TRAINING IN YOUNG ALPINE SKIERS

SEIFERT, J.G. et al [United States]

## CP-MI04-9

ASSESSMENT OF THE RELATIONSHIP BETWEEN ATHLETES PHYSICAL ABILITY AND PHYSICAL CONDITION

Yoon, J. et al [Japan]

## CP-PM17 CHILDREN

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Vago, P. [Italy]

Segura-Jiménez, V. [Spain]

## CP-PM17-1

FOOT STRIKE PATTERNS AND SPRINT PERFORMANCE AMONG INFANTS

Goto, Y. et al [Japan]

## CP-PM17-2

AGE-DIFFERENCES IN TACTICAL BALL-GAME ABILITIES IN JAPANESE ELEMENTARY SCHOOL CHILDREN

Okuda, T. et al [Japan]

## CP-PM17-3

FACTORS IMPACTING LEVELS OF TELEVISION VIEWING TIME AND PHYSICAL ACTIVITY GUIDELINES AMONG JAPANESE YOUNG CHILDREN

Hyunshik, K. [Japan]

## CP-PM17-4

THE EFFECT OF CRAWLING DURING CHILDHOOD ON CARDIOVASCULAR AND ANTHROPOMETRIC PARAMETERS IN APPARENTLY HEALTHY CHILDREN

Cazorla-González, J. et al [Spain]

## CP-PM17-5

STRUCTURED ACTIVE PLAY PROGRAM FOR PRE-SCHOOLERS, STRENGTHENS BALANCE ABILITY

SATO, K. et al [Japan]

## CP-PM17-6

IMPACT OF LONGITUDINAL CHANGES IN MENSTRUATION PATTERN AND BODY COMPOSITION ON BONE MINERAL ACCRUAL IN JAPANESE COMPETITIVE GIRL RUNNERS

Kinoshita, N. et al [Japan]

## CP-PM17-7

COMPARISONS OF IN-SCHOOL AND OUT-OF-SCHOOL PHYSICAL ACTIVITY AMONG CHINESE JUNIOR MIDDLE SCHOOL ADOLESCENTS

Zhu, Z. et al [China]

## CP-PM17-8

LONGITUDINAL CHANGES OF MUSCULOSKELETAL FINDINGS IN ELEMENTARY AND JUNIOR HIGH SCHOOL STUDENTS: A 2-YEAR PROSPECTIVE SURVEY OF MUSCULOSKELETAL EXAMINATION RESULTS

Kasai, T. et al [Japan]

## CP-PM17-9

PREVALENCE OF BACK PAIN IN CHILDREN AND ADOLESCENTS IN RURAL AND URBAN AREAS IN NORTH RHINE-WESTPHALIA (GERMANY)

Fron, K. et al [Germany]

## CP-PM18 TEAM SPORTS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Ali, A. [New Zealand]

## CP-PM18-1

A STUDY ON KNEE JOINT CONCENTRIC PEAK TORQUE AND STRENGTH ASYMMETRIES IN MEN'S PROFESSIONAL UNDER-23 VOLLEYBALL TEAM

Nikolov, H.r. et al [Bulgaria]

## CP-PM18-2

THE RELATIONSHIP BETWEEN THE RANGE OF THE VELOCITY OF BATTED BALLS WHICH WERE PITCHED INTO VARIOUS COURSES AT THE TIME OF BATTING PRACTICE AND THE RESULTS OF GAMES

Sato, N. et al [Japan]

## CP-PM18-3

PERFORMANCE DURING EXCLUSIONS IN FEMALE HANDBALL: RESULTS FROM THE 2017 PANAMERICAN CHAMPIONSHIP

Trejo, A. et al [Uruguay]

## CP-PM18-4

INFLUENCE OF HALF TIME SCORE, MATCH LOCATION AND SCORING FIRST ON MATCH OUTCOME IN ROLLER HOCKEY

Arboix-Alió, J. et al [Spain]

## CP-PM18-5

PERFORMANCE ANALYSIS OF THE SHOTS AND GOALS IN AFC FUTSAL CHAMPIONSHIP 2018

Chen, Y.C. et al [Taiwan]

## CP-PM18-6

COMPARISON OF FIELD PERFORMANCE METRICS BETWEEN COLLEGIATE DIVISION II WOMENS FOOTBALL AND FIFA WOMEN'S WORLD CUP FOOTBALL

Andersen, J.C. et al [United States]

## CP-PM18-7

MODELING SOCCER PLAYERS' TACTICAL EFFICIENCY LEVELS.

Bagatin, R. et al [Portugal]

## CP-PM18-8

MATCH OUTCOME AND TECHNICAL-TACTICAL PERFORMANCE OF THE PRESENT ASIAN SOCCER-EVIDENCE FROM 2019 AFC ASIAN CUP

GONG, B.N. et al [Spain]

## CP-MI07 MIXED II

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Hoffmann, U. [Germany]

Mamen, A. [Norway]

## CP-MI07-1

THE EFFECT OF GENERAL FATIGUE ON THE CAPABILITY TO MAINTAIN BODY BALANCE

Mazur-Rózycka, J. et al [Poland]

## CP-MI07-2

SLEEP PATTERNS OF ELITE SHOOTERS BEFORE AND DURING COMPETITION

LU, J.J. et al [China]

## CP-MI07-3

RESPIRATORY TRAINING MODIFIES THE BREATHING PATTERN TOWARD A MORE EFFICIENT ONE DURING MAXIMAL INCREMENTAL EXERCISE.

Ballerio, F. et al [Italy]

## CP-MI07-4

INFLUENCES OF LONG-TERM SPORTS EXPERIENCE ON THE CORTICAL INHIBITION DURING DUAL-TASK

Fukumoto, H. et al [Japan]

## CP-MI07-5

DEVELOPMENT OF STROKE RATE IN ROWING FROM 2013 TO 2018

Altmann, K. [Germany]

## CP-MI07-6

CENTRAL OBESITY AND BIOLOGICAL MATURITY AS DETERMINANTS OF THE CENTRE OF PRESSURE PATH LENGTH

Font-Lladó, R. et al [Spain]

## CP-MI07-7

EFFECT OF FOOT TYPES ON THE WEIGHT-BEARING RESPONSE OF THE FOOT MORPHOLOGY USING PMRI

Maruyama, M. et al [Japan]

## CP-MI07-8

CARDIOVASCULAR EFFECTS OF LOAD CARRIAGE IN SOLDIERS; A PILOT STUDY

Larsson, J. et al [Sweden]

## CP-MI07-9

EVALUATION OF A GROUP BASED 8-WEEK OUT-DOOR FITNESS TRAINING ON PHYSIOLOGICAL PERFORMANCE IN RECREATIONAL ATHLETES

Hendker, A. et al [Germany]

## CP-MI07-10

NEUROMUSCULAR RESPONSES DURING A SUSTAINED, ISOMETRIC LEG EXTENSION MUSCLE ACTION AT A CONSTANT PERCEPTION OF EFFORT

Keller, J. et al [United States]

## CP-BN10 SPORTS PHYSIOTHERAPY I

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Behrens, M. [Germany]

Kux, J. [Germany]

## CP-BN10-1

EFFECTS OF THE DIRECTION OF CROSS TAPING OF THE MIDDLE SCALENE MUSCLE ON MUSCLE TONE AND STIFFNESS

Choi, H.S. et al [Korea, South]

## CP-BN10-2

EFFECT OF KINESIO TAPING® ON VERTICAL JUMP PERFORMANCE IN JUNIOR TENNIS PLAYERS

ULUSOY, B. et al [Turkey]

## CP-BN10-3

THE EFFECTS OF SELF-MYOFASCIAL RELEASE AND STATIC AUTO-STRETCHING EXERCISES IN THE RANGE OF MOTION AND STRENGTH OF TRUCK EXTENSORS

FONTA, M. et al [Greece]

## CP-BN10-4

FOAM ROLLING AND INDICES OF AUTONOMIC RECOVERY FOLLOWING EXERCISE-INDUCED MUSCLE DAMAGE

Damico, A. et al [United States]

## CP-BN10-5

EFFECTS OF TISSUE FLOSSING ON GASTROCNEMIUS MUSCLE EXERTION AND FLEXIBILITY

KANEDA, H. et al [Japan]

## CP-BN10-6

EFFECTS OF MASSAGE AND COLD-WATER IMMERSION AFTER AN EXHAUSTIVE RUNNING SESSION ON PHYSIOLOGICAL AND PSYCHOLOGICAL PARAMETERS IN RUNNERS

Duñabeitia, I. et al [Spain]

## CP-BN10-7

IS VIBRATION ROLLING AS A WARM-UP EXERCISE MORE EFFECTIVE TO IMPROVE ON FLEXIBILITY, JOINT PROPRIOCEPTION, MUSCLE STRENGTH, AND DYNAMIC BALANCE COMPARED TO NON-VIBRATION ROLLING AND STATIC STRETCHING

Lyu, B. [Taiwan]

## CP-BN10-8

EFFECTS OF ELASTIC TAPING ON DRIVING DISTANCE AND ACCURACY IN PROFESSIONAL GOLFERS

Kim, J.W. et al [Korea, South]

## CP-BN10-9

EFFECTS OF KINESIOLOGY TAPING OF THE SHOULDER ON DYNAMIC BALANCE IN BASEBALL ATHLETES WITH MUSCLE FATIGUE

IMRAK, C. et al [Korea, South]

## CP-BN10-10

EFFECTS OF A 4-WEEKS PROPRIOCEPTIVE TRAINING BY USING PEDALO ON BALANCE DURING WIND-UP AND STRIDE POSTURES IN PROFESSIONAL BASEBALL ATHLETES.

KANG, H.S. et al [Korea, South]

## CP-PM22 AMINO ACIDS, FAT, GLUCOSE AND METABOLISM

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Triska, C. [Austria]

Gagnon, D. [Canada]

## CP-PM22-1

EFFECT OF CARBOHYDRATE INGESTION AFTER MUSCLE GLYCOGEN DEPLETION ON HIGH-INTENSITY ENDURANCE PERFORMANCE

TSUKAMOTO, M. et al [Japan]

## CP-PM22-2

THE INFLUENCE OF DIFFERENT AMOUNT OF CARBOHYDRATE DIET INGESTION AFTER EXHAUSTION EXERCISE ON POSTPRANDIAL LIPEMIA

Yang, T.J. et al [Taiwan]

## CP-PM22-3

THE IMPACT OF PRE-EXERCISE CARBOHYDRATES SUPPLEMENTATION WITH HIGH-CONCENTRATIONS DRINKS ON ENERGY METABOLISM AND EXERCISE INTENSITY IN FEMALE COLLEGIATE ATHLETES

KIMOTO, R. et al [Japan]

## CP-PM22-4

ACUTE EFFECT OF NUTRITION INTAKE BEFORE OR AFTER RESISTANCE EXERCISE ON MUSCLE BREAKDOWN IN THE MORNING IN HEALTHY YOUNG MEN

Kume, W. et al [Japan]

## CP-PM22-5

THE EFFECTS OF COWS MILK, GOATS MILK, WHEY PROTEIN AND AN ENERGY-MATCHED CARBOHYDRATE DRINK ON RECOVERY FROM REPEATED SPRINTING AND JUMPING IN TEAM SPORT ATHLETES

Curristin, M. et al [Ireland]

## CP-PM22-6

THE EFFECTS OF CYSTINE AND GLUTAMINE SUPPLEMENTATION ON GASTROINTESTINAL PERMEABILITY AND SUBJECTIVE FATIGUE IN RESPONSE TO CYCLING EXERCISE IN YOUNG MEN

Miyashita, M. et al [Japan]

## CP-PM22-7

INTAKE OF BRANCHED-CHAIN AMINO ACIDS IN COMBINATION WITH ENDURANCE EXERCISE – NO EFFECT ON MRNA EXPRESSION OF PROTEINS REGULATING MITOCHONDRIAL BIOGENESIS

Edman, S. et al [Sweden]

## CP-PM22-8

AMOUNT, SOURCE AND PATTERN OF DIETARY PROTEIN INTAKE ACROSS THE ADULT LIFESPAN: A CROSS-SECTIONAL STUDY.

Smeuninx, B. et al [United Kingdom]

## CP-PM23 ENDURANCE METHODS: RECOVERY

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Rosdahl, H. [Sweden]

Askew, C. [Australia]

## CP-PM23-1

DIFFERENCE IN VENTILATION AND CYCLING ECONOMY IN TWO SITTING POSITIONS ON A BIKE.

Kvidaland, H. et al [Norway]

## CP-PM23-2

INDIVIDUAL PHYSICAL WORKING CAPACITY – A NEW METHOD TO DETERMINE PERFORMANCE FROM SUB-MAXIMAL INCREMENTAL EXERCISE

Müller, A. et al [Austria]

## CP-PM23-3

PREDICTING AEROBIC ENDURANCE PERFORMANCE – SAVE TIME AND BLOOD!

Johansen, J. et al [Norway]

## CP-PM23-4

PHYSIOLOGICAL DETERMINANTS OF ELITE MOUNTAIN BIKE CROSS-COUNTRY MARATHON PERFORMANCE

Carmo, E.C. et al [Brazil]

## CP-PM23-5

EFFECTS OF COLD WATER IMMERSION RECOVERY STRATEGY ON PHYSIOLOGICAL INDEXES AFTER HIGH-INTENSITY INTERMITTENT EXERCISE

Yang, Y. et al [Taiwan]

## CP-PM23-6

AN ANALYSIS OF GAME MOVEMENT DEMANDS OF INTERPROVINCIAL WOMEN'S RUGBY UNION

Callanan, D. et al [Ireland]

## CP-PM23-7

DOES HIGH-INTENSITY PRE-LOAD HAVE AN EFFECT ON LACTATE ELIMINATION RATE AFTER CROSS-COUNTRY SKIING SPRINT PERFORMANCE?

Valiulin, D. et al [Estonia]

## CP-PM23-8

CORRELATION BETWEEN EARLOBE SURFACE TEMPERATURE AND INNER EAR TEMPERATURE IN A HOT ENVIRONMENT

Sato, K. et al [Japan]

## CP-PM24 DISEASE AND PHYSICAL ACTIVITY

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Pérez López, A. [Spain]

Westergren, T. [Norway]

## CP-PM24-1

THE USEFULNESS OF ACTIVITY TRACKERS AND HEART RATE MONITORS IN LIFESTYLE MEDICINE – A CASE STUDY

Dvorák, M. et al [Hungary]

## CP-PM24-2

THE EFFECTS OF OMEGA-3 FATTY ACIDS SUPPLEMENTATION ON AIRWAY INFLAMMATION IN AMERICAN UNIVERSITY FOOTBALL ATHLETES

IMAI, T. et al [Japan]

## CP-PM24-3

THE INFLUENCE OF SHORT TERM STOP-REGULAR EXERCISE ON CARDIOVASCULAR DISEASE RISK FACTORS IN MEN

Wu, C. et al [Taiwan]

## CP-PM24-4

EXAMINING THE PHYSICAL ACTIVITY OF CHILDREN WITH DIABETES

Balatoni, I. et al [Hungary]

## CP-PM24-5

CAN EXERCISE PRESERVE MOTOR AND NON-MOTOR FUNCTION IN PARKINSON'S? – LONGITUDINAL OBSERVATIONAL STUDY

Meadows, S. et al [United Kingdom]

## CP-PM24-6

STRENGTH AND FUNCTIONAL CAPACITY IN WOMEN WITH POLYCYSTIC OVARY SYNDROME

Baiocco, V. et al [Italy]

## CP-PM24-7

PROSPECTIVE TRIAL ON NUTRITIONAL INTERVENTION IN EARLY-STAGE BREAST CANCER PATIENTS: ADHERENCE TO DIETARY GUIDELINES, BODY WEIGHT CHANGE AND PHYSICAL ACTIVITY LEVELS.

Trestini, I. et al [Italy]

## CP-PM24-8

PHYSICAL ACTIVITY (PA) LEVEL, INTEREST AND PREFERENCES IN CANCER PATIENTS

Avancini, A. et al [Italy]

## CP-PM24-9

EFFECT OF ENDURANCE VERSUS RESISTANCE TRAINING ON SYSTEMIC AND LOCAL MUSCLE INFLAMMATION AND OXIDATIVE STRESS IN COPD

Ryrsø, C.K. et al [Denmark]

## CP-PM25 CARDIOVASCULAR MIXED

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Crisafulli, A. [Italy]

Cotter, J. [New Zealand]

## CP-PM25-1

RELATIONSHIP BETWEEN SKIN-GAS NITRIC OXIDE CONCENTRATION AND CAPILLARY VELOCITY FOLLOWING REPEATED SUBMAXIMAL HANDGRIP EXERCISE.

Eguchi, Y. et al [Japan]



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## CP-PM25-2

SHEAR STRESS ON CUTANEOUS CAPILLARY ENDOTHELIAL DURING WHOLE BODY EXERCISE.

Toya, Y. et al [Japan]

## CP-PM25-3

VALIDITY AND RELIABILITY OF CONTINUOUS-WAVE NIRS VS FREQUENCY-DOMAIN NIRS TO MEASURE SKELETAL MUSCLE MICROVASCULAR HEMODYNAMIC AND OXYGEN-UP TAKE KINETICS TO EXERCISE IN NORMAL AND TYPE 2 DIABETICS MEN

Rowlands, D.S. et al [New Zealand]

## CP-PM25-4

EFFECTS OF ELECTRICAL MUSCLE STIMULATION ON COGNITIVE PERFORMANCE AND CEREBRAL PERFUSION

Takagi, Y. et al [Japan]

## CP-PM25-5

INFLUENCE OF INCREMENTAL SHORT-MAXIMAL EXERCISE ON URINARY LIVER-TYPE FATTY ACID-BINDING PROTEIN

Kumamoto, S. et al [Japan]

## CP-PM25-6

THE RELATIONSHIP BETWEEN ARTERIAL STIFFNESS AND INCREASE IN BLOOD PRESSURE DURING EXERCISE IN MIDDLE-AGED OVERWEIGHT AND OBESE MEN.

Tanahashi, K. et al [Japan]

## CP-PM25-7

THE INFLUENCE OF VITAMIN D STATUS ON PULSE WAVE VELOCITY FOLLOWING ACUTE MAXIMAL EXERCISE IN ADULTS

Chen, L.A. et al [Taiwan]

## CP-PM25-8

ACUTE AND REPEATED EFFECTS OF WHOLE-BODY CRYOTHERAPY: INVESTIGATION OF A DOSE-RESPONSE EFFECT ON BLOOD CATECHOLAMINES AND HEART RATE VARIABILITY

Theurot, D. et al [France]

## CP-PM25-9

INTERARM BLOOD PRESSURE DIFFERENCE IS ASSOCIATED WITH PHYSICAL AND CARDIOVASCULAR IMPAIRMENTS IN PERIPHERAL ARTERY

## DISEASE

Correia, M. et al [Brazil]

## CP-PM25-10

THE EFFECT OF LOWER-BODY NEGATIVE PRESSURE THERAPY ON THE FUNCTIONAL STATE OF EXCELLENT ROWERS

Binhong, G. et al [China]

## CP-PM27 HORMONAL

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Franzoni, F. [Italy]

## CP-PM27-1

SEX HORMONES INFLUENCE IN RESPIRATORY VARIABLES IN FEMALE ATHLETES WITH DIFFERENT HORMONAL PROFILES

Peinado, A.B. et al [Spain]

## CP-PM27-2

RELATIONSHIP BETWEEN HORMONAL CHANGES AND PHYSICAL PARAMETERS AMONG PREPUBERTAL FEMALE HANDBALL PLAYERS

Cselko, A. et al [Hungary]

## CP-PM27-3

INFLUENCE OF VENTILATORY THRESHOLD INTENSITY TRAINING ON BLOOD 2-ARACHIDONOLGLYCEROL LEVEL.

Yamashita, T. et al [Japan]

## CP-PM27-4

MALE ENDOCRINE ADAPTIVE RESPONSE IN SCUBA DIVERS.

Verratti, V. et al [Italy]

## CP-PM27-5

EFFECT OF MENSTRUAL CYCLE PHASES ON 50-M SPRINT RUNNING PERFORMANCE

Hayamizu, M. et al [Japan]

## CP-PM27-6

AGE-DEPENDENT VARIATION OF EXERCISE-INDUCED HORMONAL RESPONSES IN YOUNG ATHLETES

Sekine, Y. et al [Japan]

## CP-PM27-7

INFLUENCE OF GOLF COMPETITION ON THE CORTISOL HORMONE, STATE ANXIETY, AND CHOKING UNDER PRESSURE IN JUNIOR GOLFER.

Narkitawon, K. et al [Thailand]

## CP-PM27-8

THE ASSOCIATIONS BETWEEN THE MENSTRUAL CYCLE AND THE EFFECTS OF ACUTE EXERCISE ON APPETITE-REGULATORY HORMONES AND ENERGY INTAKE

Kamemoto, K. et al [Japan]

## CP-PM27-9

EFFECT OF REGULAR PHYSICAL ACTIVITY ON LEVELS OF NESTROBIN-1, NEUROPEPTIDE Y AND CORTISOL IN OBESE MEN

Sadegh Eghbali, F. et al [Iran]

## CP-PM28 PHYSIOLOGY AND MEDICINE: MIXED

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Naylor, L. [Australia]

Brown, E. [United States]

## CP-PM28-1

ALTERATION OF HEART RATE AND BONE MINERAL DENSITY AFTER INTERVAL EXERCISE IN CLONED AND NON-CLONED DOGS

Lee, H.S. et al [Korea, South]

## CP-PM28-2

IMPACT OF PHYSICAL EXERCISE DURING PREGNANCY ON THE MODULATION OF LIVER MITOCHONDRIAL FUNCTION IN AN ANIMAL MODEL OF NON-ALCOHOLIC FATTY LIVER DISEASE

Stevanovic, J. et al [Portugal]

## CP-PM28-3

THE ASSOCIATION BETWEEN GRIP STRENGTH AND LEAN MASS.

PRATT, J. et al [Ireland]

## CP-PM28-4

SALIVARY ANALYSIS OF VALINE INTERMEDIATE 3-HYDROXYISOBUTYRATE: A POSSIBLE MARKER

OF MUSCULAR BCAA UTILIZATION FOR ENERGY PRODUCTION IN EXERCISE

Miyazaki, T. et al [Japan]

## CP-PM28-5

EFFECTS OF PHYSICAL ACTIVITY (TIME, LEVEL), LIFESTYLE ON CHRONIC DISEASES IN KOREANS

Changjin, J. et al [Korea, South]

## CP-PM28-6

ESTIMATION OF QUADRICEPS MUSCLE VOLUME USING SEGMENTAL BIOELECTRICAL IMPEDANCE SPECTROSCOPY

Taniguchi, M. et al [Japan]

## CP-PM28-7

THE IMMEDIATE EFFECTS OF KINESIOTAPING ON DIFFERENT PERFORMANCE TESTS IN PROFESSIONAL BASKETBALL PLAYERS: PILOT STUDY

Yigit, B. et al [Turkey]

## CP-PM28-8

ARCHITECTURAL AND MECHANICAL PROPERTIES OF PARALYZED MUSCLES IN PATIENTS POST STROKE

Kato, E. et al [Japan]

## CP-PM26 EVALUATION OF DIET QUALITY; NUTRITION KNOWLEDGE

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Wardenaar, F. [United States]

Condo, D. [Australia]

## CP-PM26-1

DIETARY SUPPLEMENTS IN GERMAN FIRST AND SECOND NATIONAL LEAGUE MALE SOCCER PLAYERS

von Spiegel, S. et al [Germany]

## CP-PM26-2

EVALUATION OF NUTRIENT INTAKE AND DIET QUALITY OF TRACK AND FIELD INDIAN ATHLETES

Kalpana, K. et al [India]

## CP-PM26-3

DEVELOPMENT OF THE ATHLETE DIET INDEX: A NEW DIETARY ASSESSMENT TOOL FOR ATHLETES

CAPLING, L. et al [Australia]

## CP-PM26-4

EXPLORING THE KNOWLEDGE-BEHAVIOUR-ATTITUDE MODEL IN ATHLETES – A PILOT STUDY

Teo, J.H.C. et al [Singapore]



## Saturday, July 6, 2019

13:45 - 14:45

### CP-MI05 TRAINING AND TESTING IV

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Kearney, P. [Ireland]  
Duhig, S. [Australia]

CP-MI05-1

THE RELATIVE AGE EFFECT IN HANDBALL: ITS EXISTENCE AND INFLUENCE ON PLAYING POSITION FOR YOUTH AND JUNIOR TEAMS

Alsharji, K. [Kuwait]

CP-MI05-2

NEUROMUSCULAR ACTIVATION PATTERN OF LOWER EXTREMITY MUSCLES IN CYCLISTS WITH SINGLE AMPUTATION OF LEG DURING PEDALING AT VARIOUS WORKLOADS

Watanabe, K. et al [Japan]

CP-MI05-3

ISO-INERTIAL ECCENTRIC-OVERLOAD TRAINING IN YOUNG SOCCER PLAYERS: EFFECTS ON STRENGTH, SPRINT, CHANGE OF DIRECTION PERFORMANCE AND SOCCER SHOOTING PRECISION

Buonsenso, A. et al [Italy]

CP-MI05-4

LONGITUDINAL CHANGES IN 2000-METRE ROWING PERFORMANCE OF OLYMPIC MEDALLISTS. FROM ENTRY TO ELITE LEVEL

Mäestu, J. et al [Estonia]

CP-MI05-5

INFLUENCE OF TRAJECTORIES IN PHYSIOLOGICAL PARAMETERS DURING RUNNING

Rezende, T.M. et al [Brazil]

CP-MI05-6

EFFECTS OF AIMING TRAJECTORY FEEDBACK ON AIR RIFLE SHOOTING

Chuang, Y.H. et al [Taiwan]

CP-MI05-7

THE ASSOCIATION OF EYE-HAND/EYE-FOOT RESPONSE TIME AND AGILITY AMONG YOUNG MALE TENNIS ATHLETES

SHIEH, L.C. et al [Taiwan]

CP-MI05-8

CLIMBING THE SEVENTH SUMMIT: NUTRITION, BODY COMPOSITION AND PHYSICAL CAPACITY OF AN ITALIAN MOUNTAIN CLIMBER

Ghiani, G. et al [Italy]

CP-MI05-9

EVALUATING THE IMPORTANCE OF MISTAKES IN THE EXECUTION OF TECHNIQUE IN SUCCESSFUL FRONT CRAWL SWIMMING PERFORMANCES

Kapus, J. et al [Slovenia]

### CP-MI14 RUNNING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Blazevich, A. [Australia]  
LEÓN GUERENO, P. [Spain]

CP-MI14-1

CHARACTERISTICS OF SPRINT RUNNING WITH THE HORIZONTAL RESISTED LOADS

Kitano, Y. et al [Japan]

CP-MI14-2

PERFORMANCE DETERMINANTS IN SPRINTING: EFFECTS OF FREQUENCY, JUMP AND STRENGTH ON SPEED IN ADOLESCENT TRACK AND FIELD ATHLETES

Spancken, S. et al [Germany]

CP-MI14-3

THE SEVEN STEPS APPROACH ON 110M HURDLES ENHANCE THE PERFORMANCE AFTER APPROACH PHASE

Iwasaki, R. et al [Japan]

CP-MI14-4

DOSE-RESPONSE RELATIONSHIP BETWEEN RUNNING TRAINING AND BODY-MASS – EPIDEMIOLOGIC SURVEY OF EXPERIENCED RUNNERS AGED

30 TO 60 YEARS

Rüther, T. et al [Germany]

CP-MI14-5

THERMOGRAPHIC IMAGES OF WARMING UP, INCREMENTAL EXERCISE TO EXHAUSTION ON A TREADMILL AND A RUNNING COOLING DOWN OF NON-PROFESSIONAL MIDDLE-AGED MALE RUNNERS

Guadalupe Grau, A. et al [Spain]

CP-MI14-6

EVALUATION OF AN INTENSIVE VERSUS EXTENSIVE HALF-MARATHON SCHEDULE TRAINING FOR MIDDLE-AGED AMATEUR FEMALE RUNNERS

Bonet, J.B. et al [Spain]

CP-MI14-7

VALIDATION OF SELF-PACED TRACK-TEST ALLOWING TO REACH AND TO ESTIMATE VO2MAX FROM SUBMAXIMAL SPEED

Molinari, C. et al [France]

CP-MI14-8

THE RELATIONSHIP OF AGE AND PERFORMANCE WITH NEUROMUSCULAR FITNESS OF RECREATIONAL RUNNERS: THE PARADIGM OF ATHENS CLASSIC MARATHON

Barbas, A. et al [Greece]

CP-MI14-9

THE APPLICATION OF WEARABLE SMART DEVICE ON THE EVALUATION OF RUNNING ECONOMICS IN DISTANCE RUNNERS

Wu, C. et al [Taiwan]

### CP-MI17 RAQUET SPORTS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Wiewelhoe, T. [Germany]

CP-MI17-1

SIMULATION OF THE TRAJECTORY OF SHUTTLECOCK IN BADMINTON

Takatsuka, R. et al [Japan]

CP-MI17-2

COMPARING MUSCLE ACTIVITY OF DROP VOLLEY AND VOLLEY IN TENNIS

Ryosuke, F. et al [Japan]

CP-MI17-3

HAS HYEON CHUNGS SERVE PERFORMANCE IMPROVED FROM JUNIOR TO PROFESSIONAL?

Kim, H. [United States]

CP-MI17-4

NOTHING VENTURED, NO POINT GAINED—AN ANALYSIS OF BREAKPOINT PERFORMANCE OF TENNIS PLAYERS

CUI, Y. et al [China]

CP-MI17-5

KINEMATIC MOTION ANALYSIS OF THREE DIFFERENT SERVICE TYPES IN ELITE JUNIOR TENNIS PLAYERS

Vuong, J. et al [Germany]

CP-MI17-6

TRAINING EFFECT OF A 4-WEEKS ADD-ON VISUAL TRAINING PROGRAM ON COLLEGIATE TENNIS ATHLETES

CHANG, S.T. et al [Taiwan]

CP-MI17-7

A COMPARATIVE ANALYSIS OF SERVE CHARACTERISTICS IN ELITE JUNIOR TENNIS SINGLES AND DOUBLES

Volk, N.R. et al [Germany]

CP-MI17-8

THE ACUTE EFFECT OF DYNAMIC STRETCHING COMBINED WITH VIBRATION ROLLING DURING WARM-UPS ON SPORTS PERFORMANCE IN BADMINTON ATHLETES

Lin, W. et al [Taiwan]

CP-MI17-9

A 10 YEARS' RETROSPECTIVE STUDY OF TOP RANKED TENNIS PLAYERS ABOUT THEIR PHYSICAL PRECONDITIONS IN YOUNG AGE

Fett, J. et al [Germany]

### CP-MI08 MIXED III

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):  
Iglesias-Soler, E. [Spain]

CP-MI08-1

EFFECTS OF 8-WEEK LIGHT VS. HEAVY TIRE FLIP TRAINING ON PHYSICAL FITNESS OF YOUNG ADULTS

Wony, D.P. et al [China]

CP-MI08-2

A FEASIBLE APPROACH FOR BLOOD FLOW RESTRICTION TRAINING: ADJUSTING A NON-ELASTIC BAND BASED ON MODERATED CUFF PRESSURE

Oliveira, J. et al [Brazil]

CP-MI08-3

CROSS EDUCATION IN A KNEE EXTENSION EXERCISE DEPENDS ON SET CONFIGURATION OF RESISTANCE TRAINING

Fariñas, J. et al [Spain]

CP-MI08-4

THE EFFECTS OF ENHANCED ABDOMINAL CORE ACTIVATION ON QUADRICEPS MUSCLE TORQUE, TIME TO PEAK TORQUE AND MUSCLE ACTIVATION AT DIFFERENT KNEE FLEXION ANGLES

YILLI, S. et al [Turkey]

CP-MI08-5

ON THE IDENTIFICATION OF KEY MUSCLES TO TARGET IN FES-ROWING TRAINING

Vieira, T.M. et al [Italy]

CP-MI08-6

PATELLAR TENDON STIFFNESS AND THICKNESS IN ELITE SPRINT AND ENDURANCE TRACK CYCLISTS USING MYOTONOMETRIC AND ULTRASONOGRAPHIC MEASUREMENTS

Klich, S. et al [Poland]

CP-MI08-7

EFFECTS OF SITTING POSTURE CHANGES ON ABDOMINAL MUSCLE ACTIVITY

Motomura, Y. et al [Japan]

# Conventional Print Poster Presentations

CP-MI08-8

EFFECTS OF ECCENTRIC EXERCISE ON TRAPEZIUS MUSCLE BIOMECHANICAL PROPERTIES ASSESSED BY ULTRASONOGRAPHY AND MYOTONOMETRY

Kisilewicz, A. et al [Poland]

CP-MI08-9

FORCE-FREQUENCY CURVE BY NMES IS ASSOCIATED WITH MUSCLE THICKNESS AND MAXIMAL VOLUNTARY CONTRACTION FOR QUADRICEPS FEMORIS

Tomita, A. et al [Japan]

## CP-BN11 SPORTS PHYSIOTHERAPY II

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Vieira, T. [Italy]

Andersen, J. [United States]

CP-BN11-1

KNOWING THE NEUROMUSCULAR SYSTEM IN SOCCER PLAYERS ALLOWS PREVENTING INJURIES

Fernández-Baeza, D. et al [Spain]

CP-BN11-2

ARTIFICIAL INTELLIGENCE CAN PREDICT NON-CONTACT INJURIES IN SOCCER

Rossi, A. et al [Italy]

CP-BN11-3

WORKPLACE INTERVENTION TO REDUCE THE DOUBLE-CRUSH-PHENOMENON

Gräf, J. et al [Germany]

CP-BN11-4

STRENGTH TRAINING AND SHOULDER PAIN IN MALE AND FEMALE WATER POLO PLAYERS

Torres-Unda, J. et al [Spain]

CP-BN11-5

PRELIMINARY STUDY ON THE USE OF EMG-AUDIO FEEDBACK TO INDUCE MUSCLE COACTIVATION: IMPLICATIONS FOR INJURY PREVENTION AND REHABILITATION.

Pinto, T.P. et al [Italy]

CP-BN11-6

LANDING ERROR SCORING SYSTEM CALCULATION METHOD CAN MAKE AN IMPORTANT DIFFERENCE!

Hanzlikova, I. et al [New Zealand]

CP-BN11-7

-> EFFECT OF FUNCTIONAL PILLOW ON POSTURAL BALANCE, FUNCTIONAL MOVEMENT AND FOOT PRESSURE

Yun, S. et al [Korea, South]

CP-BN11-8

EFFECTS OF MASSAGE AND COLD-WATER IMMERSION AFTER AN EXHAUSTIVE RUNNING SESSION ON RUNNING ECONOMY AND BIOMECHANICAL PARAMETERS: A RANDOMIZED CONTROLLED TRIAL

Duñabeitia, I. et al [Spain]

## CP-PM14 TALENT / ELITE ATHLETES

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Smith, M. [Australia]

Blancquaert, L. [Belgium]

CP-PM14-1

IS BIOLOGICAL MATURATION A KEY PREDICTOR OF YOUTH SOCCER PLAYER'S MANAGEMENT OF TEAM PLAY?

Ribeiro, J. et al [Portugal]

CP-PM14-2

ASTHMA AND ALLERGIES WITH REFERENCE TO PULMONARY FUNCTION, RESPIRATORY SYMPTOMS AND PRESCRIBED MEDICAL TREATMENT IN COMPETITIVE SWIMMERS

Päivinen, M. et al [Finland]

CP-PM14-3

THE RELATIVE AGE EFFECT IN POLAND'S YOUTH VOLLEYBALL

Rubajczyk, K. et al [Poland]

CP-PM14-4

SLEEP CHARACTERISTICS OF ELITE ATHLETES: COMPARISON BETWEEN SUBJECTIVE SLEEP QUESTIONNAIRE REPORTS AND OBJECTIVE MEASURES USING MONITORING DEVICE

Kislev-Cohen, R. et al [Israel]

CP-PM14-5

MOTION ANALYSIS OF ELITE SOCCER GOALKEEPERS

Lipinska, P. et al [Poland]

CP-PM14-6

THE ROLE OF BASKETBALL CLUBS COMPETITIVE LEVEL ON TECHNICAL SKILLS DEVELOPMENT DURING YOUTH: THE INEX PROJECT.

Guimarães, E. et al [Portugal]

CP-PM14-7

EFFECTS OF DUET FREE ROUTINE TRAINING ON MOVEMENT QUALITY AND INTENSITY IN ARTISTIC SWIMMERS DURING A 12-WEEK COMPETITION PERIOD

Komori, Y. et al [Japan]

CP-PM14-8

ARE THERE REGIONAL DIFFERENCES IN RELATIVE TERRAIN PERFORMANCE IN THE CROSS-COUNTRY SKI SPRINT PROLOGUE?

Bucher, E. et al [Switzerland]

CP-PM14-9

FASTBREAK CHARACTERISTICS IN U18 WOMEN'S BASKETBALL CHAMPIONSHIP 2018

Chiang, H.Y. et al [Taiwan]

CP-PM14-10

STRUCTURE OF FAST BREAKS IN PROFESSIONAL WOMEN'S BASKETBALL

Lan, Y.C. et al [Taiwan]

## CP-PM29 METABOLISM AND OTHER

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Kaviani, M. [Canada]

Moholdt, T. [Norway]

CP-PM29-1

ROWING BUT NOT MULTIMODAL HIGH-INTENSITY INTERVAL TRAINING REDUCES ALANINE TRANSAMINASE AND ASPARTATE TRANSAMINASE IN YOUNG ADULT FEMALES

Brown, E.C. et al [United States]

CP-PM29-2

TYPE 2 DIABETES ELICITS ELEVATED OXYGEN CONSUMPTION AT MAXIMAL RELATIVE FAT OXIDATION AND AT THE GAS EXCHANGE THRESHOLD IN AGING WOMEN.

Paquin, J. et al [Canada]

CP-PM29-3

EXOGENOUS CARBOHYDRATE OXIDATION RATES CAN BE ACCURATELY DETERMINED AFTER 20 MINUTES OF MODERATE INTENSITY ENDURANCE EXERCISE

Podlogar, T. et al [United Kingdom]

CP-PM29-4

CHANGES IN THE GUT MICROBIOTA OF HIGHLY TRAINED DISTANCE RUNNERS DURING A SUMMER TRAINING CAMP IN A HOT ENVIRONMENT

Matsuo, K. et al [Japan]

CP-PM29-5

EFFECTS OF ACUTE ENDURANCE EXERCISE PERFORMED IN THE MORNING AND EVENING ON 24-H INTERSTITIAL FLUID GLUCOSE LEVELS

Kim, H.K. et al [Japan]

CP-PM29-6

EFFECTS OF HIGH INTENSITY INTERVAL TRAINING (HIIT) AND RESISTANCE TRAINING ON PLASMA ANTIOXIDANT ACTIVITY

Fuji, J. et al [Italy]

CP-PM29-7

EFFECTS OF BODY FAT PERCENTAGE ON MAXIMUM POWER, FATIGUE INDEX AND BLOOD LACTATE CONCENTRATION IN TWO CONSECUTIVE WINGATE TESTS.

Castañeda, A. et al [Spain]

CP-PM29-8

IMPACT OF WEARING COMPRESSION GARMENT STOCKINGS ON HEMODYNAMICS IN LOWER LIMBS DURING PROLONGED SITTING

Horiuchi, M. et al [Japan]

CP-PM29-9

METABOLIC RESPONSES TO A MAXIMAL EATING OCCASION

Hengist, A. et al [United Kingdom]

## CP-MI11 COMBAT SPORTS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Baudry, S. [Belgium]

Kux, J. [Germany]

CP-MI11-1

MUSCLE FATIGUE IN THE MUAY THAI TRAINING

Magnani, S. et al [Italy]

CP-MI11-2

RELATIVE OVERHEAD PRESS CORRELATES WITH JAB PUNCH VELOCITY, BUT NOT CROSS PUNCH VELOCITY IN MALE BOXERS

Pádecký, J. et al [Czech Republic]

CP-MI11-3

DIFFERENCES BETWEEN MALE AND FEMALE WRESTLERS IN THE EFFECTIVENESS OF SET UP ON LEG ATTACK SUCCESS

Ito, S. et al [Japan]

CP-MI11-4

SPECIFIC TEST AND STANDARDS FOR DETECTING THE RESPONSE TIME AND THE PRECISION OF THAI AMATEUR BOXER'S PUNCHES

Rirermkul, P. et al [Thailand]

CP-MI11-5

PACKING A PUNCH: PHYSICAL STRENGTH AND POWER CHARACTERISTICS ASSOCIATED WITH DELIVERING FORCEFUL DAMAGING PUNCHES

Dunn, E.C. et al [Australia]

CP-MI11-6

FACTOR STRUCTURE OF GENERAL MOTOR AND KARATE SPECIFIC FITNESS TESTS IN MALE KARATE ATHLETES

Heazlewood, I. et al [Australia]

CP-MI11-7

PHYSIOLOGICAL AND KINEMATIC RESPONSE TO TAEKWONDO-SPECIFIC EXERCISE IN ELITE MALE ATHLETES

Janowski, M. et al [Poland]

CP-MI11-8

THE WINGATE TEST IN THE DIAGNOSIS OF THE TRAINING IN JUDO

GABRYS, T. et al [Poland]

### CP-PM30 PHYSICAL DISABILITIES AND THERMOREGULATION

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Guy, J. [Australia]

CP-PM30-1

COMPARING CHARACTERISTICS OF MOVEMENT IMAGERY STRUCTURE IN SOCCER PLAYERS WITH CONGENITAL AND ACQUIRED BLINDNESS

MOMOSE, Y. [Japan]

CP-PM30-2

MECHANICS OF EFFECTIVE PROPULSION MOVEMENTS FOR THE WHEELCHAIR SPRINT START

KUJIMA, K. et al [Japan]

CP-PM30-3

AGE-RELATED CHANGES IN PARA AND WHEELCHAIR RACING ATHLETE'S PERFORMANCES

Schipman, J. et al [France]

CP-PM30-4

UNICYCLE RIDING COURSES ENHANCE MOTOR PERFORMANCE AND ATTENTION IN ADOLESCENTS WITH LEARNING DISABILITIES

Lin, W. et al [Taiwan]

CP-PM30-5

THERMOREGULATORY RESPONSE OF LOWER LIMB AMPUTEES IN HOT AND HUMID ENVIRONMENT

Fukuhara, K. [Japan]

CP-PM30-6

CHANGES OF SKIN CHARACTERISTICS AFTER AN APPLICATION OF A TOPICAL WARMING PRODUCT

Stoop, R. et al [Switzerland]

CP-PM30-7

INFLUENCE OF ICE SLURRY INGESTION ON CORE TEMPERATURE AND BLOOD PRESSURE DURING ACUTE RECOVERY PERIOD AFTER ENDURANCE EXERCISE IN HOT ENVIRONMENT

Nakamura, M. et al [Japan]

CP-PM30-8

RELATION BETWEEN PERFORMANCE OF THE DISPLACEMENT SPEED AND BODY TEMPERATURE IN ELITE ATHLETES OF BRAZILIANS FEMALE SOCCER.

Vieira, N.A. et al [Brazil]

CP-PM30-9

A STUDY OF PARAMETERS FOR THE PERFORMANCE EVALUATION OF PARA ARTISTIC SWIMMING

Kawabata, Y. [Japan]

### CP-PM15 PHYSICAL ACTIVITY / INACTIVITY

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Tamulevicius, N. [United States]

CP-PM15-1

BASELINE HEALTH BEHAVIORS FOR UNITED STATES MILITARY PERSONNEL PARTICIPATING IN AN EXERCISE INTERVENTION: THE ARMY TRAINING AT HIGH INTENSITY STUDY

Heinrich, K.M. et al [United States]

CP-PM15-2

THE INFLUENCE OF EXERCISE HABITS IN YOUNG WOMEN ON BODY COMPOSITION, MUSCLE STRENGTH AND PHYSICAL ACTIVITY.

Ohta, M. et al [Japan]

CP-PM15-3

LIFESTYLE AND HEALTH OF DIFFERENT ADULT AGE GROUPS

Wilhelm, M. [Hungary]

CP-PM15-4

SPONTANEOUS LOCOMOTOR ACTIVITY REDUCES ANXIETY-LIKE BEHAVIOR IN ENVIRONMENTAL

ENRICHMENT.

Sudo, M. et al [Japan]

CP-PM15-5

THE NEW SIMPLE PHYSICAL ACTIVITY QUESTIONNAIRE IS USEFUL FOR ASSESSING PHYSICAL ACTIVITY OF JAPANESE

Mutsumi, K. et al [Japan]

CP-PM15-6

QUALITY DIMENSIONS AND QUALITY RESEARCH IN HEALTH SPORT PROGRAMS

Wittelsberger, R. et al [Germany]

CP-PM15-7

EFFECTS OF DIFFERENT PEDALING CADENCES ON MOTOR-COGNITIVE DUAL-TASK PERFORMANCES AND CARDIO-RESPIRATORY RESPONSES

Ishida, K. et al [Japan]

CP-PM15-8

24RD ANNUAL ECSS CONGRESS PRAGUE/CZECH REPUBLIC, JULY 3-6. 2019 HEALTH BENEFITS OF A REGULAR PHYSICAL ACTIVITY PROGRAM IN UNIVERSITY STUDENTS GYEBROVSZKI ÁDÁM1, GARAI KITTI3, KVELL KRISZTIÁN3, ÁDÁM

Gyebrovski, A. [Hungary]

CP-PM15-9

EFFECTS OF ACUTE EXERCISE WITH DIFFERENT PERCEIVED EXERTION ON CARDIOPULMONARY FITNESS AND ENJOYMENT IN SEDENTARY MEN

Lee, C.L. et al [Taiwan]

### CP-PM31 MIXED

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Blasco-Lafarga, C. [Spain]

CP-PM31-1

LOCAL AND REMOTE ISCHEMIC PRECONDITIONING IMPROVES SPRINT INTERVAL EXERCISE PERFORMANCE IN TEAM SPORT ATHLETES

Cheng, C.F. et al [Taiwan]

CP-PM31-2

PHYSIOLOGICAL DEMANDS OF EPÉE FENCING PERFORMANCE

Oates, L. et al [United Kingdom]

CP-PM31-3

EFFECTS OF MILD DEHYDRATION ON ARCHERY PERFORMANCE

Aphamis, G. et al [Cyprus]

CP-PM31-4

DIFFERENCES IN THE SYSTEMIC REDOX INDEX AFTER EXPOSURE TO PARTICULATE MATTER AND OZONE IN STREET RUNNERS

Vaisberg, M. et al [Brazil]

CP-PM31-5

RELATIONSHIP BETWEEN IRON INTAKE AND HEMOGLOBIN MASS IN ADOLESCENTS TRAINED IN RESISTANCE SPORTS AND UNTRAINED, RESIDENTS IN INTERMEDIATE ALTITUDE

Quintero Barrantes, K. et al [Colombia]

CP-PM31-6

IN WHICH PHASE OF SQUAT EXERCISES CAN ACTIVATE THE ABDOMINAL CORE MUSCLES MORE? DESCENDING, STATIC, OR ASCENDING PHASE?

GUNDUZ, S. et al [Turkey]

CP-PM31-7

THREE-YEAR LONGITUDINAL TRANSFORMATION OF SPRINT MOTION CAUSED BY AWKWARDNESS IN EARLY ADOLESCENCE

Kokudo, S. et al [Japan]

CP-PM31-8

INDIVIDUAL ANALYSIS OF MOVEMENT COORDINATION IN PISTOL SHOOTING

Chen, H.H. et al [Taiwan]

CP-PM31-9

ARE THERE DIFFERENCES BETWEEN THE LEAD LIMBS DURING BLOCK JUMP-LANDING IN DIFFERENT DIRECTIONS?

Mercado-Palomino, E. et al [Spain]

### CP-SH13 MIXED

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Mamen, A. [Norway]

CP-SH13-1

DIALOGICAL PREVENTION OF SPORTSPERSONS FRUSTRATION

Plested-Alvarez, M. et al [Colombia]

CP-SH13-2

CHANGES IN HORMONE LEVELS WITH EXPOSURE TO STUDENT STRESS: THE CHESS PILOT STUDY

Crack, L. et al [Canada]

CP-SH13-3

COMPARISON OF WELL-BEING DIFFERENCES IN ELDERLY PEOPLE WHO RECEIVE PENSIONS WITH ELDERLY PEOPLE WHO LIVING WITH ACCUMULATED MONEY IN SAMUT SONGKHRAM PROVINCE THAILAND

Bungmark, W. et al [Thailand]

CP-SH13-4

TRAINEES PERCEPTION TOWARDS TRAINING METHODS IN THE NIGERIAN PRIVATE UNIVERSITY SYSTEM

OLAOSBIKAN, T. [Nigeria]

CP-SH13-5

MODERN COACHING

Rahmani, M. [Iran]

CP-SH13-6

EFFECT OF PARTICIPATION IN SPORTS TEAM DURING OVERSEAS STUDY PROGRAM ON NON-NATIVE LANGUAGE PROFICIENCY

Miyamoto, H. et al [Japan]

CP-SH13-7

PST: COACHES AND SPORT PSYCHOLOGISTS: WORKING TOGETHER

Jaenes Sánchez, J.C. et al [Spain]

CP-SH13-8

EFFECT OF RUMINATION ON MENTAL HEALTH OF JAPANESE UNIVERSITY ATHLETES

Nakamura, M. et al [Japan]

CP-SH13-9

RELATIONSHIP BETWEEN DEVOTION TO OTHERS AND LONG-TERM YIPS SYMPTOMS AMONG JAPANESE BASEBALL PLAYERS

Noguri, R. et al [Japan]

INFLUENCE OF SOCIAL SUPPORT ON EMOTIONAL  
REGULATION AMONG JAPANESE UNIVERSITY  
ATHLETES

**CP-PM32 CARDIOVASCULAR:  
YOUNG**

Chair(s):

# EFFECTS OF UPPER-BODY RESISTANCE TRAINING VS. LOWER-BODY RESISTANCE TRAINING ON CENTRAL AND PERIPHERAL ARTERY STIFFNESS IN YOUNG ADULTS

## PREVALENCE OF ARTERIAL HYPERTENSION AND ABNORMALITIES IN ECHOCARDIOGRAPHY IN YOUNG STUDENTS

## RELATIONSHIP BETWEEN VASCULAR COMPLIANCE AND BODY COMPOSITION, PHYSICAL FITNESS, AND DIETARY HABITS IN YOUNG PEOPLE: FOCUS ON THE DIFFERENCE BETWEEN VEIN AND ARTERY

# ASSOCIATIONS OF ANTHROPOMETRIC MEASURES AND FITNESS STATUS WITH CARDIOVASCULAR PARAMETERS IN PRIMARY SCHOOL CHILDREN

## AN INTER-RELATIONSHIP BETWEEN CARDIOVASCULAR AND POSTURAL SYSTEMS IN APPARENTLY HEALTHY CHILDREN

EVALUATION OF CEREBRAL OXYGENATION IN MODERATE AND HIGH-INTENSITY CONSTANT-LOAD EXERCISE IN YOUNG ADULTS

## AEROBIC FITNESS: INFLUENCE ON CARDIOVASCULAR HEALTH AND CARDIAC AUTONOMIC CONTROL IN YOUNG COLLEGE STUDENTS

HIGHER GOLF SKILL WAS CHARACTERIZED BY PSYCHOMOTOR REFINEMENT IN COGNITIVE, ATTENTIONAL AND MOTOR CONTROL PROCESSES.

## HOW DO AGE, SPORTS DISCIPLINE AND SCOPE OF TRAINING INFLUENCE SELECTED CARDIO-PULMONARY EXERCISE PARAMETERS IN YOUNG ATHLETES ?

Appel, K. et al [Germany]



## BIOMECHANICS

### EP-UD01-16

PRINCIPAL COMPONENT ANALYSIS FOR THE AMATEURS' GOLF SWING WITH SENSORS ON WHOLE BODY SEGMENTS  
Peng, H. [Taiwan]

### EP-UD01-54

KNEE BIOMECHANICS BEFORE AND AFTER ANTERIOR CRUCIATE LIGAMENT (ACL) RECONSTRUCTION DURING RUNNING  
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Alahmadi, M. [Saudi Arabia]

## AMTI [USA]

AMTI's multi-axis force platforms and instrumented treadmills provide accurate, repeatable force data for many different sports science studies. These six-component force measuring systems have high measuring sensitivity, a wide dynamic range, excellent repeatability, and unsurpassed accuracy. Configurations include floor mounted, portable, dual force platform treadmills, instrumented stairs, and more.  
<http://www.amti.biz>

## ARTINIS MEDICAL SYSTEMS B.V. [THE NETHERLANDS]

Artinis Medical Systems develops NIRS devices that enable you to non-invasively monitor haemoglobin concentration changes in muscle and brain tissue. For sports research we offer portable, user-friendly and affordable NIRS devices that can be used in the lab and in the field.

Visit us at booth 46 for a demonstration!  
<http://www.artinis.com>

## BIOPAC SYSTEMS, INC. [USA]

Physiological data acquisition amplifiers, transducers, software for exercise physiology recording—BioNomadix Bioshirt, the wireless, wearable BioNomadix Logger, BioNomadix Wireless Transmitter-Receiver Amplifiers. Gas Analysis System. Mobita wireless biopotential system with 32 channels of high-fidelity data. fNIR optical brain imaging.  
<https://www.biopac.com>

## BODYCAP [FRANCE]

Our company manufactures miniaturized wireless electronic sensors and monitoring solutions. Specialized in wearable connected devices for physiological data monitoring. Its innovative high-tech products are used in Sport & Ergonomics areas to optimize performance and to prevent hypothermia and hyperthermia.  
<http://www.bodycap-medical.com>

## CAMNTECH LTD. [UNITED KINGDOM]

CamNTEch has over 20 years experience of providing scientifically validated wearable devices for small and large scale global studies, record heart rate + HRV synchronized with acceleration for accurate AEE in free-living. Our devices are manufactured to the highest standard in our ISO13485 certified facility near Cambridge in the U.K.  
<http://www.camntech.com>

## CATAPULT SPORTS PTY LTD [UNITED KINGDOM]

Catapult empowers elite coaches globally with scientifically-validated metrics for the advancement of athlete performance. Catapult engineers wearable technology that provides objective information behind athlete risk, readiness and return to play. The company was born out of the Australian Institute of Sport (AIS) and a scientific research organization and provides an all-encompassing solution with research-based insights in to athlete management.  
<http://catapultsports.com/>

## COMETA SYSTEMS [ITALY]

Leading provider of wireless EMG and IMU sensors. Our sensors are the smallest on the market and the only ones to have IPX7 certification for underwater use.  
<http://www.cometasystems.com>

## CONTEMPLAS GMBH [GERMANY]

CONTEMPLAS GmbH, with its headquarter in Kempten/Germany, develops and distributes worldwide software solutions for gait, posture and general motion analysis in the medical and sports market. The CONTEMPLAS motion analysis software TEMPLO offers the possibility to do analysis in different fields of applications, as Clinical Gait Analysis, 2D/3D Posture Analysis, Running Analysis, etc. With the easy data acquisition and integration of other systems in the analysis process, such as EMG and pressure/force measuring systems, TEMPLO becomes

an essential tool in the field of sport, medicine and science. User- friendliness and dedicated analysis protocols based on the integration of the latest video technology help you while performing your analyses.  
<http://www.contemplas.com>

## CORTEX BIOPHYSIK GMBH [GERMANY]

As world market leader in mobile Cardiopulmonary Exercise Testing systems CORTEX is pleased to present to you at the ECSS comprehensive information about professional athletes' performance diagnostics. Our diagnostic systems allow our customers to obtain precise measurement results in the area of: performance diagnostics, training evaluation, prevention, therapy and rehabilitation.  
<http://www.cortex-medical.com>

## COSMED S.R.L. [ITALY]

Since 1980, world leading supplier of Cardio Pulmonary Metabolic testing and Body Composition solutions to Sports Science, Health, Professional Sport and Wellness. New generation of wearable metabolic system, a new leap forward for advanced and accurate metabolic testing in the field.  
<http://www.cosmed.com>

## DELSYS EUROPE [UNITED KINGDOM]

What's next for EMG? Come and speak to us about the Delsys Trigno and Delsys NeuroMap technologies, delivering biomarkers of neuromuscular control through the presentation of Neural Firings, sEMG and Kinematic Data. New boundaries of motor control in your hands push your research forward.  
<http://www.delsys.com/europe>

## ECSS SEVILLA 2020 [SPAIN]

25<sup>th</sup> Annual Congress of the European College of Sport Science taking place on 1 - 3 July, 2020 in the beautiful city of Seville, Andalusia, Spain.  
<http://www.ecss-congress.eu/2020>

## GAIT UP SA [SWITZERLAND]

Born in research 18 years ago, Gait Up combines wearable sensors, algorithms and biomechanics, to provide world leading motion analysis. We empower wearables to rival accuracy of legacy motion labs, with real life convenience that counts. Our mission is to enhance health, sport, and society by providing easy yet accurate measures of the 6th vital sign: Movement. Gait Up ready-made products are one of the most validated wearable motion sensor systems on the market. From a frail senior to a high-level athlete, we measure movement to help prevent mobility disorders and improve performance with our ready-to-use products for gait and running analysis, based on our own proprietary IMU, the Physilog®5. GaitHub algorithm portfolio makes building your custom application easier than ever: Gait Up is a trusted partner for companies willing to integrate smart motion features in their products through our B2B Partner program. Gait Up inertial sensor fusion technology differs from usual wearables by creating products with meaningful outcomes, clinical reliability, drift-free accuracy, auto-calibration convenience, all tailored to your custom application.  
<http://www.gaitup.com>

## H/P/COSMOS SPORTS & MEDICAL GMBH [GERMANY]

Through the long history of more than 25 years in producing running-machines, h/p/cosmos has become THE treadmill specialist for sports, true medical (MDD) and oversize treadmills. h/p/cosmos produces a range of running machine systems from robust, reliable and MDD-certified machines to oversize machines

## Exhibitors profiles

for wheelchair athletes, cyclists and skiers. There are over 100 different models which include un-weighting systems, safety systems, software solutions and other patented support solutions.  
<http://www.h-p-cosmos.com/en>

### **HUMAN KINETICS EUROPE LTD [UNITED KINGDOM]**

Human Kinetics is committed to providing quality informational and educational products in physical activity and health fields. Our customers include students who study physical activity and health issues, professionals who apply sport, physical activity and health knowledge in delivering useful services, and the public who engage in fitness and sports activities in many forms.  
<http://www.humankinetics.com/>

### **INNOVISION APS [DENMARK]**

AMIS Sport manufactured by Innovision ApS Denmark is an extremely precise system for VO2 testing in athletes. The system is used in Olympic and elite training centers around the world.  
Key features: low inspiratory and expiratory flow resistance, minimal dead space, ultralight-weight tubes, laser-diode oxygen sensor.  
<http://www.amis-sport.com>

### **INSTITUTE OF SPORT AND PREVENTIVE MEDICINE [GERMANY]**

Advertisement international M. Sc. High-Performance Sport and international PhD programme Science and Health in Football  
<http://www.sportmedizin-saarbruecken.de>

### **JOURNAL OF SPORT AND HEALTH SCIENCE (JSHS) [CHINA]**

The only journal on Sport/Exercise/Health Science published in English in China.  
• Indexed in Web of Science SCI/SSCI, PubMed Central, Scopus, DOAJ, EMBASE, and CSA

- Excellent editorial board: prestigious researchers around the world
- Quick turnaround and high quality review process
- Open access and Free of charge

SCI/SSCI IF: 2.591  
Editors-in-Chief: Peijie Chen (China); Walter Herzog (Canada)  
Publisher: Elsevier  
Frequency: Bimonthly  
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<http://www.jshs.org.cn>

### **KISTLER INSTRUMENTE AG [SWITZERLAND]**

Kistler force plates were first introduced in 1969 and have consistently proved their worth as precise, reliable measuring instruments.  
The unique piezoelectric measuring system offers numerous advantages and makes Kistler force plates a cost effective investment for biomechanical laboratories. Longevity, high accuracy, linearity and sensitivity provide reliable and reproducible results.  
<http://www.kistler.com/biomechanics>

### **KUBIOS OY [FINLAND]**

Heart rate variability analysis software for stress and recovery monitoring.  
<http://www.kubios.com>

### **LODE B.V. [THE NETHERLANDS]**

Lode supplies high quality, reliable and accurate medical and sports performance products for more than 65 years. With that, Lode supports medical professionals, researchers, movement scientists and coaches. Lode wants to develop customer-oriented, innovative and sustainable products that are easy to use, enabling professionals to focus entirely on their clients.  
<http://www.lode.nl>

### **MAASTRICHT INSTRUMENTS BV [THE**

### **NETHERLANDS]**

Equipment and software to measure a persons' energy metabolism and physical activity. Maastricht Instruments is known for its world-leading reproducibility in metabolic carts, room calorimeters and physical activity sensors.  
[www.maastrichtinstruments.com](http://www.maastrichtinstruments.com)

### **MES FORSCHUNGSSYSTEME [GERMANY]**

MESForschungssysteme is your trusted partner for your need in neuro-physiological research. For your sports applications: on treadmill, ergometer, freely moving subjects, etc. we do provide a wide range of solutions: i.e. compact, mobile wireless and powerful EEG/fNIRS devices.  
Please visit us on our booth 8 for a live experience.  
<http://www.mesmed.de>

### **MICROGATE SRL [ITALY]**

Microgate works in four fields: Professional Training, Training & Sport, Medical Rehab and Engineering.  
In Training field the main products are: OptoJump Next (Run and Jump analysis), Gyko (inertial measurement tool for the analysis of the movement of any body segment), Witty Timer and WittySEM (smart indicator for training for reactivity, agility, motor-cognitive abilities)  
<http://www.microgate.it>

### **MONARK EXERCISE AB [SWEDEN]**

The new generation of Monark bikes is developed with the cyclist in mind.  
With a perfect position, modern force and open source connect ability it offers models for any situation within Sports & Medical area.  
<http://www.monarkexercise.se>

### **MOOR INSTRUMENTS LTD. [UNITED KINGDOM]**

NIRS / Endothelial function testing / Pressure cuff systems / Laser Doppler / Laser Speckle / SO2 / Iontophoresis / Thermal challenge testing / Tissue oxygenation / blood flow imaging / blood flow monitoring  
<http://www.moor.co.uk>

### **NOVEL GMBH [GERMANY]**

With more than 40 years of experience, novel is the specialist in the development of load distribution measurement systems. The systems are frequently utilized for various sports applications. Well-known major companies, universities, and prominent research institutions in sports and biomechanics worldwide rely on novel's technology.  
[www.novel.de](http://www.novel.de)  
<http://www.novel.de>

### **PHYSIOFLOW / MANATEC BIOMEDICAL [FRANCE]**

PhysioFlow is a unique range of noninvasive continuous hemodynamic monitors, fully validated even at maximal exercise. They are small and portable, wireless and can also be used as data loggers. They are interfaced with several VO2 systems.  
<http://www.physioflow.com>

### **POWERBREATHE ALTITUDE AND ENVIRONMENTAL SYSTEMS LTD [UNITED KINGDOM]**

POWERbreathe Altitude & Environmental Systems (United Kingdom) are fast becoming the 'go-to' company for simulated altitude and simulated environmental conditions equipment/products. PBAES offers the most extensive range of products of any provider in the marketplace. This extensive, yet innovative and affordable range of equipment includes: mask based simulated altitude hypoxic units (Pro and High-Perfor-

mance Pro), patented inflatable modular rooms (including an exclusive, bespoke design for h/p/cosmos mercury, quasar/pulsar and venus/saturn treadmills), semi-permanent modular rooms, semi-portable simulated altitude hypoxic generators (Summit Series) and fixed simulated altitude hypoxic generators (Stratosphere Series). Furthermore, our simulated environmental conditions equipment is completely bespoke and tailored for customer needs. Environmental conditions that can be controlled include: temperature (-25°C to +50°C), humidity (10% to 90%), altitude (0m to 8,900m) and wind-chill. PBAES re-create Everest in your facility!

<http://www.powerbreathealtitude.com>

### **POWERBREATHE INTERNATIONAL LTD [UNITED KINGDOM]**

POWERbreathe is the World's #1 provider of breathing training devices. For nearly 20-years, POWERbreathe has been the breathing training device of choice for experts in the field of Human Performance and in Health & Medical. POWERbreathe Inspiratory Muscle Training (IMT) devices include the POWERbreathe K-Series, the Worlds 1st Intelligent Digital Breathing Trainers, with an independent, International, 6 Nation, Clinical Medical Research study & other studies, endorsing these as Gold Standard devices.

<http://www.powerbreathe.com>

### **QUALISYS AB [SWEDEN]**

We provide world class technology and support for sport performance applications. Get to the next level with the world's fastest mocap camera, offering unparalleled 3.6 gigapixels per second. With low-latency output and sub-millimeter accuracy at distances up to +35 m, it's easy to see why we are the preferred choice in sports science and biomechanics. The Project Automation Framework (PAF) for QTM is a customizable infrastructure that lets you automate repetitive tasks in your workflow.

<http://www.qualisys.se>

### **QUIPU SRL [ITALY]**

Our current software solutions provide: FMD Studio, Endothelial Dysfunction assessment by Flow Mediated Dilation of the brachial artery in real-time. CAROTID Studio, Carotid Stiffness and Intima Media Thickness Assessment in real-time.

<http://www.quipu.eu>

### **RBM ELEKTRONIK-AUTOMATION GMBH [GERMANY]**

The Cyclus2 is an innovative state-of-the-art cycling ergometer packed with electronic and IT solutions, comprising of standardized performance tests, isokinetic mode, lateral oscillation, and training- and programming applications. Due to its versatility, functionality and user-friendliness it is used by sports scientists, high performance centres, coaches and top-class cyclists worldwide.

<http://www.cyclus2.com>

### **ROUTLEDGE, TAYLOR & FRANCIS GROUP [UNITED KINGDOM]**

As a leading publisher in the field of Sports and Leisure, Routledge proudly offers a wealth of highly-cited journal content and primary research. Routledge journals dominate the Hospitality, Leisure, Sport and Tourism category of the Social Sciences Citation Index® as well as hosting a prestigious book publishing program. Discover more on Routledge Journals at <http://explore.tandfonline.com/sport>

And Routledge books at <http://www.routledge.com/sport>

<http://www.tandfonline.com/tejs>

### **SIMI REALITY MOTION SYSTEMS GMBH [GERMANY]**

Simi delivers image-based 3D Markerless and Marker-based Motion Capture Technology based on limitless industrial high-speed cameras. Our mission is to develop high-end image-based movement analysis

technology with a clear focus on the user friendliness. With our leading machine vision technology and artificial intelligence algorithms we help you to enter into the field of machine learning and big data analysis in sport competitions, training-situations or clinical environments.

<http://www.simi.com>

### **STT SYSTEMS [SPAIN]**

STT delivers high-end 3D motion analysis solutions for various applications. Our products are simple to set up, simple to use and affordable. STT works with inertial sensor technology and optical systems with a powerful 3D motion capture engine used by biomechanists, sports scientists, PT and doctors all over the world.

<http://www.stt-systems.com/en/>

### **THE ELITE ATHLETE CENTRE/ LOUGHBOROUGH UNI [UNITED KINGDOM]**

The Elite Athlete Centre is a world class venue that promotes rest, relaxation, and the pursuit of excellence. Set in the heart of Loughborough University's world leading sport facilities, this inspiring high-performance environment offers aspirational space for athletes, business and fitness enthusiast to be the best they can be.

<http://www.eliteathletecentre.co.uk>

### **THE PHYSIOLOGICAL SOCIETY [UNITED KINGDOM]**

Academic journals

<http://www.physoc.org/>

### **UCAM SPANISH SPORT UNIVERSITY [SPAIN]**

UCAM Spanish Sport University offers postgraduate programs developing future professionals in the field of sports industry. All the programs are related with two main areas, such as Sport Performance and Sport

Management combining theoretical-practical teaching through a high-quality teaching staff, from a scientific and professional point of view.

<http://www.sportsmanagement.ucam.edu/>

### **VALD PERFORMANCE (INTL) PTY LTD [AUSTRALIA]**

Vald Performance is a sports and health technology company that aims to provide physiotherapists, sports scientists and conditioning coaches unparalleled insights into their players' performance and injury risk through intuitive and innovative assessment and monitoring systems.

<http://www.valdperformance.com>

### **VICON MOTION SYSTEMS LTD. [UNITED KINGDOM]**

Vicon delivers 3D movement analysis systems in sports training and research department's worldwide. Its flagship camera line, the Vantage, offers the highest resolution, frame rates and accuracy available, allowing detailed motion capture in almost any environment. Vero is Vicon's next generation camera, combining size, power, and price performance into one amazing solution.

<https://www.vicon.com>

### **WISEPRESS LTD [UNITED KINGDOM]**

Wisepress.com, Europe's leading conference book-seller, attend around 200 conferences every year. We have an extensive range of books and journals relevant to the themes of this conference available at our booth. We also have a comprehensive range of STM titles available on our online bookshop. Follow us on Twitter @WisepressBooks.

<http://www.wisepress.com>





# Wednesday 3 July 2019

Time	Congress Hall	Panorama Hall	South Hall 1A	South Hall 1B	South Hall 2A	South Hall 2B
08:00	Opening of Registration					
09:00 - 10:30	Satellites, Workshops					
10:30 - 12:00	Satellite Symposia/Workshops/General Assembly (see page 14)					
12:00 - 12:45	Lunch break					
12:45 - 13:45 in FORUM HALL on Level 2	CONVENTIONAL PRINT POSTER SESSIONS 1A	CP-PM01 MOLECULAR SIGNALING RESPONSE	CP-PM04 MUSCLE GROWTH: ADAPTATION	CP-PM05 TRAINING AND TESTING	CP-BN01 NEUROMUSCULAR PHYSIOLOGY	CP-MI01 STRENGTH AND POWER
	CONVENTIONAL PRINT POSTER SESSIONS 1B	CP-SH04 PSYCHOLOGICAL FACTORS IN SPORT	CP-BN03 MOTOR LEARNING AND MOTOR CONTROL	CP-PM03 HEALTH AND FITNESS	CP-BN06 SPORT TECHNOLOGY MIXED	CP-BN07 SPORTS PHYSIOTHERAPY I
13:45 - 14:00	Break					
14:00 - 15:30 Invited & Orals	IS-PM05 HIGH-CARBOHYDRATE OR HIGH-FAT DIETS... [APPLIED TRACK]	GSSI-Pres GSSI NUTRITION AWARD PRESENTATIONS	OP-PM06 ENERGY, FAT AND METABOLISM	OP-PM01 MOLECULARBIOLOGY AND BIOCHEMISTRY: SIGNALING AND RESPONSE	OP-BN01 MUSCLE AND/OR TENDON FUNCTION I	OP-PM15 PHYSIOLOGY
15:30 - 16:00	Coffee break					
16:00 - 17:30 Invited & Orals	IS-SP03 EFFECTIVE MANAGEMENT (RTT) [APPLIED TRACK]	OP-PM03 NUTRITION: VITAMINS, COLLAGEN AND ANTIOXIDANTS	OP-PM02 METABOLIC SYNDROME AND DIABETES I	OP-PM08 HEALTH AND FITNESS: CHILDREN AND ADOLESCENTS	OP-PM13 MUSCLE DAMAGE AND REPAIR I	OP-BN03 MOTOR LEARNING AND MOTOR CONTROL: FEEDBACK - TALENT - BALANCE
17:30 - 17:45	Break					
17:45 - 19:00	Plenary Session I - Springs and sprinters - Congress Hall					
19:00 - 19:15	GSSI-Award - Congress Hall					
19:15 - 19:30	Paavo Komi Memorial - Congress Hall					
19:30 - 20:00	Opening Ceremony - Congress Hall					
20:00	Opening Reception - Exhibition area on level 2					



# Wednesday 3 July 2019

Time	North Hall	Club A	Club E	Club H	Terrace 2A	Terrace 2B
12:45 - 13:45 in FORUM HALL on Level 2	CONVENTIONAL PRINT POSTER SESSIONS 1A	CP-PM06 BONE AND MUSCLE	CP-SH02 CHILDREN	CP-PM02 ERGOGENIC AIDS; FAT, GLUCOSE AND METABOLISM	CP-BN02 MUSCLE / TENDON FUNCTION	CP-SH03 HUMANITIES
	CONVENTIONAL PRINT POSTER SESSIONS 1B	CP-BN04 BALANCE AND POSTURE	CP-BN05 RUNNING AND THROWING	CP-BN08 JUMPING AND SQUATTING	CP-MI02 TRAINING AND TESTING I	CP-SH01 PHYSICAL EDUCATION / PEDAGOGIC APPROACHES
14:00 - 15:30 Invited & Orals	OP-PM12 TRAINING AND TESTING	OP-PM10 HEALTH AND FITNESS: CLINICAL POPULATIONS I	OP-SH06 PROFESSIONAL DEVELOPMENT - PHY- SICAL EDUCATION...	OP-MI02 TRAINING AND TESTING: RUGBY	OP-SH01 SOCIOLOGY	OP-SH05 CHILDREN
16:00 - 17:30 Invited & Orals	IS-BN01 STABILITY TRAINING THROUGHOUT THE LIFESPAN	OP-MI03 TRAINING AND TESTING	OP-PM09 PHYSIOLOGY: TRAINING AND TESTING	OP-BN06 TEAM SPORTS: SOCCER	OP-SH02 SPORT STATISTICS AND ANALYSES	OP-SH07 PSYCHOLOGY: STRESS AND ANXIETY



# Thursday 4 July 2019

Time	Congress Hall	Panorama Hall	South Hall 1A	South Hall 1B	South Hall 2A	South Hall 2B
08:00 - 09:30 Invited & Orals	<b>IS-MI02</b> ADVANCES IN ATHLETE DEVELOPMENT RESEARCH	<b>OP-PM14</b> PHYSICAL ACTIVITY / INACTIVITY I	<b>OP-PM05</b> LIFESTYLE: AGEING	<b>OP-PM07</b> HORMONAL BIOLOGY	<b>OP-BN02</b> BALANCE AND STABILITY	<b>OP-BN07</b> SKILL ACQUISITION
09:30 - 09:45	Break					
09:45 - 11:15 Invited & Orals	<b>IS-PM01</b> THE EFFECTS OF ACUTE EXERCISE AND LONG-TERM EXERCISE ...	<b>IS-SP02</b> MULTI-DISCIPLINARY APPROACH... SPONSORED BY GSSI	<b>OP-PM04</b> METABOLIC FITNESS AND FLEXIBILITY	<b>OP-PM11</b> AGEING	<b>OP-BN05</b> GAIT I	<b>OP-MI01</b> TRAINING AND TESTING: TALENT
11:15 - 11:30	Break					
11:30 - 12:45	Plenary Session II - Personalized exercise oncology - Congress Hall					
12:45 - 13:30	Lunch break					
13:30 - 14:30 in FORUM HALL on Level 2	<b>CONVENTIONAL PRINT POSTER SESSIONS 2A</b>	<b>CP-SH05</b> PSYCHOLOGY / MOTIVATION	<b>CP-MI09</b> TEAM SPORTS	<b>CP-MI12</b> ENDURANCE	<b>CP-SH06</b> PSYCHOLOGICAL RESPONSES TO EXERCISE I	<b>CP-SH07</b> PSYCHOLOGICAL RESPONSES TO EXERCISE II
	<b>CONVENTIONAL PRINT POSTER SESSIONS 2B</b>	<b>CP-PM07</b> HYPOXIA	<b>CP-PM13</b> INJURY PREVENTION	<b>CP-PM16</b> VITAMINE D / OTHER SUPPLEMENTS	<b>CP-BN09</b> MOTOR LEARNING AND MOTOR CONTROL	<b>CP-PM19</b> ERGOGENIC AIDS / OTHER SUPPLEMENTS
14:30 - 14:45	Break					
14:45 - 16:15 Invited & Orals	<b>IS-PM02</b> ECCENTRIC CYCLING: BASICS AND CLINICAL APPLICATIONS (CLINICAL TRACK)	<b>OP-PM18</b> HEALTH AND FITNESS: AGEING I	<b>OP-PM19</b> NUTRITION: ERGOGENIC AIDS I	<b>OP-PM20</b> MOLECULAR BIOLOGY AND BIOCHEMISTRY: GENOMICS I	<b>OP-BN09</b> SPORTS PHYSIOTHERAPY: ACL	<b>OP-MI06</b> HEALTH AND FITNESS
16:15 - 16:45	Coffee break					
16:45 - 18:15 Invited & Orals	<b>IS-PM03</b> THE SKIN CIRCULATION AS A TARGET FOR LIFESTYLE ...	<b>IS-EX01</b> ECSS-ACSM EXCHANGE SYMPOSIUM: SPORT ELIGIBILITY AND CLASSIFICATION	<b>OP-PM22</b> RESPIRATION / PULMONARY	<b>OP-PM21</b> GENDER	<b>OP-BN11</b> BIOMECHANICS: RUNNING	<b>OP-BN12</b> NEUROMUSCULAR FATIGUE I
18:15 - 18:30	Break					
18:30 - 20:00 Invited & Orals	<b>IS-PM04</b> EXERCISE-INDUCED MUSCLE DAMAGE: WHAT IS IT, HOW IS ...		<b>OP-PM23</b> CARDIAC FUNCTION AND CARDIOVASCULAR DISEASES	<b>OP-PM24</b> RECOVERY FROM SPORTS AND EXERCISE	<b>OP-BN15</b> BIOMECHANICS: WINTER SPORTS	<b>OP-BN16</b> MOTOR UNIT FUNCTION II



# Thursday 4 July 2019

Time	North Hall	Club A	Club E	Club H	Terrace 2A	Terrace 2B
08:00 - 09:30 Invited & Orals	<b>OP-PM17</b> THERMOREGULATION I	<b>OP-BN08</b> MOTOR UNIT FUNCTION I	<b>OP-MI04</b> YOUTH FOOTBALL	<b>OP-SH08</b> SPORT, ENVIRONMENT, GLOBALIZATION	<b>OP-SH04</b> PHYSICAL EDUCATION AND PEDAGOGICS	<b>IS-SH01</b> ATHLETES MENTAL HEALTH - FEPSAC SYMPOSIUM
09:45 - 11:15 Invited & Orals	<b>OP-BN04</b> NEUROMUSCULAR PHYSIOLOGY	<b>OP-PM16</b> ENDURANCE	<b>OP-MI05</b> AGILITY	<b>OP-SH09</b> HISTORY	<b>OP-SH03</b> PSYCHOLOGY	<b>IS-SH02</b> THE ROLE OF PERCEPTION IN SPORT
13:30 - 14:30 in FORUM HALL on Level 2	<b>CONVENTIONAL PRINT POSTER SESSIONS 2A</b>	<b>CP-PM09</b> MOLECULAR BIOLOGY	<b>CP-PM11</b> OBESITY AND WEIGHT LOSS	<b>CP-SH08</b> TEACHING AND COACHING EFFECTS ON CHILDREN	<b>CP-MI15</b> AGEING	<b>CP-MI03</b> TRAINING AND TESTING II
	<b>CONVENTIONAL PRINT POSTER SESSIONS 2B</b>	<b>CP-PM20</b> GENOMICS / MOLECULAR METABOLISM	<b>CP-PM08</b> AGEING	<b>CP-PM12</b> GENDER	<b>CP-PM21</b> CARDIOVASCULAR ATHLETES	
14:45 - 16:15 Invited & Orals	<b>IS-BN02</b> NOT SO SIMPLE? MUSCLE-TENDON INTERACTION TO AMPLIFY OR ...	<b>OP-BN10</b> TESTING AND TRAINING IN SWIMMING I	<b>OP-MI07</b> TRAINING AND TESTING: MILITARY / MIXED	<b>OP-SH11</b> PSYCHOLOGY: COGNITION	<b>OP-SH10</b> SPORT MANAGEMENT	<b>IS-SH03</b> ADVANCES IN UNDERSTANDING THE ROLE OF FUNDAMENTAL...
16:45 - 18:15 Invited & Orals	<b>IS-SP01</b> FROM ANKLE SPRAIN ... - SPONSORED BY ADIDAS [CLINICAL TRACK]	<b>OP-BN13</b> SPORT TECHNOLOGY I	<b>OP-MI08</b> AGEING I	<b>OP-BN14</b> MOTOR LEARNING AND MOTOR CONTROL: TALENT - SKILLS...	<b>OP-SH12</b> PSYCHOLOGY: MOTIVATION	<b>OP-SH13</b> ETHICAL BEHAVIOUR IN SPORT
18:30 - 20:00 Invited & Orals	<b>IS-BN03</b> BRAIN STIMULATION: AN EMERGING PHENOMENON IN SPORT...	<b>OP-PM43</b> NUTRITION: SUPPLEMENTS AND DIETARY REGIMENS	<b>OP-PM46</b> CARDIOVASCULAR PHYSIOLOGY I	<b>OP-SH15</b> SOCIOLOGY: CHILDREN AND GENDER	<b>OP-SH14</b> PSYCHOLOGY: HEALTH AND WELL-BEING	<b>IS-SH04</b> MOTIVATION IN PHYSICAL EDUCATION: A FOCUS ON TEACHERS ...





# Friday 5 July 2019

Time	Congress Hall	Panorama Hall	South Hall 1A	South Hall 1B	South Hall 2A	South Hall 2B
08:00 - 09:30 Invited & Orals	<b>IS-PM06</b> THE LUNGS DURING EXERCISE [CLINICAL TRACK]	<b>OP-PM26</b> HIGH INTENSITY INTERVAL TRAINING	<b>OP-PM25</b> METABOLIC SYNDROME AND DIABETES II	<b>OP-PM29</b> TEAM SPORTS: SOCCER	<b>OP-BN17</b> SPORTS PHYSIOTHERAPY: FOOT AND ANKLE	<b>OP-MI09</b> TEAM SPORTS I
09:30 - 09:45	Break					
09:45 - 11:15 Invited & Orals	<b>IS-MI04</b> INDIVIDUALIZATION AND OPTIMIZATI- ON OF EXERCISE... [CLINICAL TRACK]	<b>OP-PM30</b> CARDIOVASCULAR PHYSIOLOGY	<b>OP-PM31</b> OBESITY	<b>OP-PM32</b> MUSCLE DAMAGE AND REPAIR II	<b>OP-BN19</b> MOTOR LEARNING AND MOTOR CONTROL: COORDINATION	<b>OP-BN20</b> TRAINING AND TESTING IN SWIMMING II
11:15 - 11:30	Break					
11:30 - 12:45	Plenary Session III - Sport and brain injuries - A red flag for sport? - Congress Hall					
12:45 - 13:30	Lunch break					
13:30 - 14:30 in FORUM HALL on Level 2	<b>CONVENTIONAL PRINT POSTER SESSIONS 3A</b>	<b>CP-MI10</b> STRENGTH AND POWER	<b>CP-SH09</b> MORALITY AND CHARACTER DEVE- LOPMENT	<b>CP-SH10</b> TEAM FUNCTIONING AND LEADER- SHIP	<b>CP-MI13</b> SWIMMING	<b>CP-PM10</b> ORTHOPEDICS
	<b>CONVENTIONAL PRINT POSTER SESSIONS 3B</b>	<b>CP-PM18</b> TEAM SPORTS	<b>CP-MI07</b> MIXED II	<b>CP-BN10</b> SPORTS PHYSIOTHERAPY I	<b>CP-PM22</b> AMINO ACIDS, FAT, GLUCOSE AND METABOLISM	<b>CP-PM23</b> ENDURANCE METHODS: RECOVERY
14:30 - 14:45	Break					
14:45 - 16:15 Invited & Orals	<b>IS-PM07</b> LOOKING INSIDE-OUT INTO AGEING SKELETAL MUSCLE...	<b>OP-PM35</b> INTERVAL TRAINING	<b>OP-PM36</b> NUTRITION: ERGOGENIC AIDS II	<b>OP-PM37</b> FATIGUE	<b>OP-MI11</b> CYCLING	<b>OP-MI10</b> STRENGTH AND POWER I
16:15 - 16:45	Coffee break					
16:45 - 18:15 Invited & Orals	<b>IS-PM08</b> A WARM BATH, GLASS OF (CHOCOLA- TE) MILK... [APPLIED TRACK]	<b>IS-EX02</b> ECSS-JSPFSM EXCHANGE SYMPOSI- UM: LACTATE/PYRUVATE...	<b>OP-PM40</b> FAT, GLUCOSE AND METABOLISM	<b>OP-PM45</b> NUTRITION: PROTEIN AND DIETARY REGIMENS	<b>OP-PM52</b> HEALTH AND FITNESS: CARDIOVAS- CULAR	<b>OP-PM51</b> EXERCISE THERAPY
18:15 - 18:30	Break					
18:30 - 20:00 Invited & Orals	<b>IS-PM09</b> IMAGING THE FUTURE OF ELITE SPORTS WITH METABOLIC...	<b>IS-PM10</b> THE MASTERS ATHLETE: PERFOR- MANCE... [APPLIED TRACK]	<b>OP-PM41</b> NUTRITION: AMINO ACIDS AND PROTEINS	<b>OP-PM47</b> CARDIOVASCULAR PHYSIOLOGY II	<b>OP-PM55</b> HEALTH AND FITNESS: SEDENTARY LIFESTYLE	<b>OP-PM56</b> HYPOXIA II



# Friday 5 July 2019

Time	North Hall	Club A	Club E	Club H	Terrace 2A	Terrace 2B
08:00 - 09:30 Invited & Orals	<b>IS-BN04</b> NEW INSIGHTS ON THE CONTROL OF VOLUNTARY ACTIONS DERIVED...	<b>OP-PM28</b> HYPOXIA I	<b>OP-PM27</b> SPORT INJURIES AND ORTHOPEDICS I	<b>OP-BN18</b> SPORTS TECHNOLOGY II	<b>OP-SH16</b> PSYCHOLOGY: PHYSICAL ACTIVITY PROMOTION	<b>IS-SH05</b> THE ROLE OF SPORT HISTORY IN THE SCIENTIFIC COMMUNITY...
09:45 - 11:15 Invited & Orals	<b>IS-BN05</b> HAMSTRING STRAIN INJURIES: PREVENTION... [CLINICAL TRACK]	<b>OP-BN21</b> GAIT II	<b>OP-PM33</b> HEALTHY AND FITNESS: AGEING II	<b>OP-PM34</b> MOLECULAR BIOLOGY AND BIOCHEMISTRY...	<b>IS-SH06</b> SUSTAINABLE SPORT TOURISM - CHALLENGES FOR THE FUTURE	
13:30 - 14:30 in FORUM HALL on Level 2	<b>CONVENTIONAL PRINT POSTER SESSIONS 3A</b>	<b>CP-SH11</b> EXERCISE, COGNITION AND PERFORMANCE I	<b>CP-SH12</b> EXERCISE, COGNITION AND PERFORMANCE II	<b>CP-MI16</b> APP AND METHOD DEVELOPMENT	<b>CP-MI04</b> TRAINING AND TESTING III	<b>CP-PM17</b> CHILDREN
	<b>CONVENTIONAL PRINT POSTER SESSIONS 3B</b>	<b>CP-PM24</b> DISEASE AND PHYSICAL ACTIVITY	<b>CP-PM25</b> CARDIOVASCULAR MIXED	<b>CP-PM27</b> HORMONAL	<b>CP-PM28</b> PHYSIOLOGY AND MEDICINE: MIXED	<b>CP-PM26</b> EVALUATION OF DIET QUALITY; NUTRITION KNOWLEDGE
14:45 - 16:15 Invited & Orals	<b>OP-BN22</b> MUSCLE AND/OR TENDON FUNCTION II	<b>OP-BN23</b> SPORTS TECHNOLOGY III	<b>OP-PM38</b> TEAM SPORTS: CHILDREN	<b>OP-PM39</b> HEALTH AND FITNESS: PREGNANCY - HIIT - TIMING OF EXERCISE	<b>IS-MI03</b> SPORT FOR ATHLETES WITH DISABILITY: CLASSIFICATION RESEARCH...	<b>OP-PM44</b> NUTRITION: CARBOHYDRATES AND DIETARY REGIMENS
16:45 - 18:15 Invited & Orals	<b>OP-MI13</b> MIDDLE - LONG DISTANCE RUNNING	<b>OP-MI12</b> TEAM SPORTS: SOCCER	<b>OP-PM50</b> MOLECULAR BIOLOGY AND BIOCHEMISTRY: GENOMICS II	<b>OP-PM59</b> MOLECULAR BIOLOGY AND BIOCHEMISTRY: MICROBIOTA - METABOLISM	<b>OP-BN24</b> PARALYMPICS	<b>IS-SH07</b> ECONOMIC, SOCIOLOGICAL, PEDAGOGICAL AND ETHICAL ...
18:30 - 20:00 Invited & Orals	<b>IS-BN06</b> (IM)BALANCE OF MUSCLE AND TENDON ADAPTATION...	<b>OP-BN25</b> SPORTS PHYSIOTHERAPY: BACKPAIN	<b>OP-MI14</b> AGEING II	<b>OP-BN26</b> SPORT TECHNOLOGY IV	<b>OP-PM53</b> HEALTHY AND FITNESS: CLINICAL POPULATIONS II	<b>OP-PM54</b> SPORT INJURIES AND ORTHOPEDICS II



# Saturday 6 July 2019

Time	Congress Hall	Panorama Hall	South Hall 1A	South Hall 1B	South Hall 2A	South Hall 2B
08:00 - 09:30 Invited & Orals	<b>IS-PM11</b> REASONS AND REMEDIES FOR THE AGE-RELATED DECLINE IN ...	<b>OP-PM42</b> NUTRITION: OTHER SUPPLEMENTS	<b>IS-EX03</b> CSSS-ECSS EXCHANGE SYMPOSIUM: SUPPORT SYSTEM FOR ELITE ATHLETES	<b>OP-PM48</b> CARDIOVASCULAR PHYSIOLOGY III	<b>OP-BN27</b> NEUROMUSCULAR FATIGUE II	<b>OP-MI15</b> STRENGTH AND POWER II
09:30 - 09:45	Break					
09:45 - 11:15 Invited & Orals	<b>IS-PM12</b> CARDIAC, VASCULAR AND CEREBRO-VASCULAR ADAPTATION...	<b>IS-MI01</b> THE NEUROSCIENCE AND INTERPRETATION OF PLACEBO...		<b>OP-PM57</b> TRAINING AND TESTING: ENDURANCE	<b>OP-MI16</b> RUNNING	<b>OP-PM66</b> PHYSIOLOGY: MUSCLE METABOLISM
11:15 - 11:30	Break					
11:30 - 13:00 Invited & Orals	<b>IS-PM13</b> DIETARY NITRATE AND HYPOXIA	<b>OP-PM60</b> THERMOREGULATION II	<b>OP-PM61</b> CHILDREN	<b>OP-PM62</b> MOLECULAR BIOLOGY AND BIOCHEMISTRY: METABOLOMICS	<b>OP-MI17</b> STRENGTH AND POWER III	<b>OP-PM64</b> PHYSICAL ACTIVITY FOR OLDER PEOPLE
13:00 - 13:45	Lunch break					
13:45 - 14:45 in FORUM HALL on Level 2	<b>CONVENTIONAL PRINT POSTER SESSIONS 4A</b>	<b>CP-MI05</b> TRAINING AND TESTING IV	<b>CP-MI14</b> RUNNING	<b>CP-MI17</b> RAQUET SPORTS	<b>CP-MI08</b> MIXED III	<b>CP-BN11</b> SPORTS PHYSIOTHERAPY II
	<b>CONVENTIONAL PRINT POSTER SESSIONS 4B</b>	<b>CP-PM30</b> PHYSICAL DISABILITIES AND THERMOREGULATION	<b>CP-PM15</b> PHYSICAL ACTIVITY / INACTIVITY	<b>CP-SH13</b> MIXED	<b>CP-PM31</b> MIXED	<b>CP-PM32</b> CARDIOVASCULAR: YOUNG
14:45 - 15:00	Break					
15:00 - 15:15	EJSS Best Paper Award - Congress Hall					
15:15 - 16:30	Plenary Session IV - The importance of circadian rhythm for athletic performance and skeletal muscle health - Congress Hall					
16:30 - 16:45	Coffee break					
16:45 - 18:00	YIA Presentations - Congress Hall					
18:00 - 18:30	Closing Ceremony - Congress Hall					
18:30 - 19:00	YIA Awards - Congress Hall					
20:00	End					



# Saturday 6 July 2019

Time	North Hall	Club A	Club E	Club H	Terrace 2A	Terrace 2B
08:00 - 09:30 Invited & Orals	<b>OP-BN28</b> JUMPING AND SQUATTING	<b>OP-BN29</b> MOTOR LEARNING AND MOTOR CONTROL: CHILDREN	<b>OP-PM58</b> ENDURANCE: WINTER SPORTS	<b>OP-PM71</b> INJURY PREVENTION III	<b>IS-MI05</b> CONSUMER DIGITAL TECHNOLOGIES FOR HEALTH AND SPORTS ...	<b>IS-SH08</b> 'SPORT' - PUBLIC HEALTH OR PUBLIC HARM?
09:45 - 11:15 Invited & Orals	<b>OP-MI18</b> TEAM SPORTS II	<b>OP-PM63</b> STRENGTH	<b>OP-BN30</b> INJURY PREVENTION	<b>OP-PM65</b> MIXED SPORTS	<b>OP-PM68</b> HEALTH AND FITNESS: BRAIN, MENTAL AND MIXED	<b>OP-PM70</b> PHYSICAL ACTIVITY / INACTIVITY II
11:30 - 13:00 Invited & Orals	<b>IS-BN07</b> TOWARDS A BETTER UNDERSTANDING OF RUNNING... (CLINICAL TRACK)	<b>OP-BN31</b> BIOMECHANICS AND NEUROMUSCULAR: MIXED I	<b>OP-BN32</b> BIOMECHANICS AND NEUROMUSCULAR: MIXED II	<b>OP-PM67</b> SPORTS INJURIES AND ORTHOPEDICS III	<b>OP-PM69</b> HEALTH AND FITNESS: CLINICAL POPULATIONS II	
13:45 - 14:45 in FORUM HALL on Level 2	CONVENTIONAL PRINT POSTER SESSIONS 4A	<b>CP-PM14</b> TALENT / ELITE ATHLETES	<b>CP-PM29</b> METABOLISM AND OTHER	<b>CP-MI11</b> COMBAT SPORTS		
	CONVENTIONAL PRINT POSTER SESSIONS 4B					



