Final Programme

UNITING THE WORLD THROUGH SPORT SCIENCE

24th Annual Congress of the European College of Sport Science
ECSS Prague 2019

Hosted by Charles University
24th Annual Congress of the
EUROPEAN COLLEGE OF SPORT SCIENCE
UNITING THE WORLD THROUGH SPORT SCIENCE
3 - 6 July 2019, Prague - Czech Republic
Hosted by: Charles University Prague - Venue: Prague Congress Centre

ECSS PARTNERS

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ECSS Supporters

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CONGRESS SPONSORS

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CONGRESS SUPPORTERS

| Prague Convention Bureau | PRAGUE congress CENTRE | Sport Tools Data management in sports |
Uniting the World through Sport Science

24th 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 24th Annual Congress of the ECSS in Prague, Czech Republic, from 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

**CONGRESS PRESIDENT**
Václav Bunc (CZ)

**ECSS EXECUTIVE BOARD**
Joan L. Duda - President (GBR)
Tim Cable - Past President (GBR)
Erich Müller - President Elect (AUT)
Bente Klarlund Pedersen (DEN)
Stephen Seiler (NOR)
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Eva Prokešová (CZ)
Miroslav Semerád (CZ)
Tomáš Vetřovský (CZ)

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Jirí Baláš (CZ)
Ladislav Cepicka (CZ)
Jirí Radvanský (CZ)

**LOCAL SCIENTIFIC COMMITTEE (MEMBERS)**
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Jirí Baláš (CZ)
Ladislav Cepicka (CZ)
Jirí Dostál (CZ)
Karel Fromel (CZ)
Lenka Kovárová (CZ)
Jirí Radvanský (CZ)
James Tufano (CZ, USA)
Martin Zvovar (CZ)
Stanislav Machac (CZ)

**REVIEWING PANEL**
Stephen Bailey (GBR)
Nick Ball (AUS)
Bill Baltzopoulous (GBR)
Gregory Bogdanis (GRE)
Leigh Breen (GBR)
Neil Cronin (FIN)
Rosa Diketmüller (AUT)
Marije Ellerink-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 Heimonen (FIN)
Jaan Jüirimäe (EST)
Marko Laaksonen (FIN)
Robert Lamberts (RSA)
Andrew Lane (GBR)
Benedikt Lauber (GER)
Stefan Josef Lindinger (AUT)
Jamie McPhee (GBR)
Andreas Mierau (GER)
David Morales-Alamo (ESP)
Vassilis Mougios (GRE)
Truls Raastad (NOR)
Ramona Ritzmann (GER)
Bart Roelands (BEL)
Christopher Shaw (AUS)
Ana Sousa (POR)
Mike Stembridge (GBR)
Wolfgang Taube (BGR)
Dick Thijsen (GBR)
Lex B Verdijk (NED)

**HEAD OF VOLUNTEERS**
Tomáš Brtník (CZ)

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ECSS Congress
Prague 2019 – Czech Republic

24th Annual Congress of the European College of Sport Science
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 kvetna 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

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 11 533 m³ of water (3 Olympic pools), 9 740 945 kWh of energy (consumption of 5019 households) and 726 tons of CO₂ 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.
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 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 MONEY

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

ORAL PRESENTATIONS

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

CONVENTIONAL PRINT POSTER PRESENTATIONS

- 1st – EUR 3,000
- 2nd – EUR 2,000
- 3rd – EUR 1,000
- 4th – 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

- 1st – EUR 3,000
- 2nd – EUR 1,500
- 3rd – 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

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 2nd floor and a Café on the 1st 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.
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.

5TH 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 cooperation 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 5th 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 Baštá

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 25th 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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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

09 - AMTI
Biomechanics force platform
USA

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
25th 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

35 - LODE B.V.
Bicycle and treadmill ergometers as well as recumbent, arm and supine ergometers and ergometry software
THE NETHERLANDS

17 - MAASTRICHT INSTRUMENTEN BV
Indirect calorimetry / Accelerometry
THE NETHERLANDS

48 - HUMAN KINETICS EUROPE LTD
Publisher - Sport Science books
UNITED KINGDOM

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

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 ENVIROMENTAL 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
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SportEx - Exhibition floor plan

The official exhibition of the European College of Sport Science

Sportex

24th Annual Congress of the European College of Sport Science
Embrace the spectrum of sports medicine!

Sports Medicine
INTERNATIONAL OPEN
SMIO

International Journal of Sports Medicine

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for new personal subscribers

www.thieme.com/journals/sports
Institutional Subscribers esales@thieme.com
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

Special Interest Groups (SIG)

Elite Sport Performance
Date: Wednesday, 3 July
Time: 09:00 - 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 2B

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

ECSS General Assembly

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

ECSS SportEx Raffle 2019

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

5th ECSS Bengt Saltin Run

5th 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: 09:00 – 10:00
Room: Terrace 2B
Plenary sessions

Wednesday, July 3
17:45 - 19:00
PL-PS01

Congress Hall

SPRINGS AND SPRINGERS
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
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]
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

REGISTER TODAY AT ICSPP2020.CA
Wednesday, July 3
14:00 - 15:30

**Congress Hall**

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

Chair(s):
Hlodge, 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?
Hlodge, 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):
Raatad, 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
MYOCARDIATE INGESTION STIMULATES PROTEIN SYNTHESIS RATES TO A GREATER EXTENT THAN MILK PROTEIN IN BOTH RESTED AND EXERCISED SKELETAL MUSCLE IN HEALTHY YOUNG MEN
Monleyne, A.J. et al [United Kingdom]
14:30 [YIA] GSSI-Pres-3
EXOGENOUS CARBOHYDRATE INGESTION DURING PROLONGED STEADY STATE EXERCISE ALTERS INTRASMUSCULAR SUBSTRATE UTILISATION IN TRAINED CYCLISTS
Fall, 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 COMPARRED TO COLLAGEN PEPTIDE SUPPLEMENTATION DURING OVERREACHING IN TRAINED CYCLISTS
Okawa, S.Y. et al [Canada]
15:00 GSSI-Pres-5
ACUTE CARBONNASE AND ANSERINE SUPPLEMENTATION AS A NOVEL ERGENOMIC STRATEGY FOR HIGH-INTENSITY EXERCISE
Blancquaert, L. et al [Belgium]
15:15 GSSI-Pres-6
UTILITY OF THE 13C-BREATH (RATIO) METHOD TO TRACK CHANGES IN FAT-OXIDATIO MAXIMA DURING INTENSE CYCLING EXERCISE FOLLOWING GLUCOGEN MANIPULATION BY ACUTE DIETARY INTERVENTION
Kopetschyn, 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 EX VICES INDUCED FACTORS ON HUMAN ADIPOCYTES
Severinsen, M. et al [Denmark]
14:15 [YIA] OP-PM06-2
EFFECTS OF HIT OR AEROBIC EXERCISE TRAINING ON LIPID METABOLISM BY ACTIVATING FGF21 SIGNALING PATHWAY
Li, L et al [China]
14:30 OP-PM06-3
SARCOPENIA 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 PROTOCOL TO DETERMINE FAT OXIDATION RATE DURING INTENSE AEROBIC EXERCISE USING A 13C BREATH RATIO APPROACH
Ris, S. et al [Denmark]

**OP-PM07**

**South Hall 1B**

**Molecular biology and biochemistry: signaling and response**

Chair(s):
Morales-Álamo, D. [Spain]
Wagenermachers, A. [United Kingdom]
14:00 [YIA] OP-PM07-1
INCREASED RIBOSOMAL BIOGENESIS AND CAPACITY WITH HIGH-FREQUENCY LOW-LOAD BLOOD FLOW RESTRICTED RESISTANCE EXERCISE
Bjørnsen, T. et al [Norway]
14:15 [YIA] OP-PM07-2
INVESTIGATING SKELETAL MUSCLE MITOPATHY SIGNALLING AND THE EFFECT OF ELECTRICAL STIMULATION
Seabright, A. et al [United Kingdom]
14:30 [YIA] OP-PM07-3
THE VITAMIN D RECEPTOR REGULATES MITOCHONDRIAL FUNCTION IN SKELETAL MUSCLE
Ashcroft, S. P. et al [United Kingdom]
14:45 [YIA] OP-PM07-4
POST-EXERCISE ISCHEMIA MAINTAINS THE EXERCISE-INDUCED ACTIVATING PHOSPHORYLATION OF NRF2: ROLE OF METABOLES AND PO2
Galego-Selles, A. et al [Spain]
15:00 [YIA] OP-PM07-5
TARGETED METABOLOTICS UNCOVERS ASSOCIATIONS BETWEEN CIRCULATORY ESSENTIAL AMINO ACIDS AND HEALTH BIOMARKERS ACROSS THE LIFE-COURSE, AND IN RESPONSE TO RESISTANCE EXERCISE TRAINING
Systa, M. H. et al [United Kingdom]

**OP-BN01**

**South Hall 2A**

**Muscle and/or tendon function I**

Chair(s):
Bergsland, G. [Greece]
Baltzopoulos, B. [United Kingdom]
14:00 [YIA] OP-BN01-1
NON-INVASIVE ESTIMATION OF MUSCLE FIBER TYPE IN VARIOUS DISCIPLINES OF PROFESSIONAL CYCLING
Van Vossel, K. et al [Belgium]
14:15 [YIA] OP-BN01-2
METABOLIC POWER AND ENERGY EXPENDITURE IN THE GERMAN BUNDESLIGA
Venzke, J. et al [Germany]
14:30 [YIA] OP-BN01-3
NEUROMUSCULAR EVALUATION OF ARM-CYCLING REPEATED SPRINTS UNDER HYPOXIA AND/OR BLOOD FLOW RESTRICTION
Peyrard, A. et al [France]
**OP-PM12**

**North Hall**

**Training and testing**

Chair(s):

Bishop, D. [Australia]

Hopker, J. [United Kingdom]

14:45  [YIA] OP-PM12-4

**FIVE WEEKS OF HIGH INTENSITY CIRCUIT TRAINING LED TO A DECREASE OF SERUM FIBROBLAST GROWTH FACTOR-21 IN OVERWEIGHT ADULT WOMEN**

Micelska, K. et al [Poland]

15:00  [YIA] OP-PM12-5

**EFFECTS OF AN ECCENTRIC HAMSTRING TRAINING ON COMPONENTS OF PHYSICAL FITNESS IN FEMALE YOUNG HANDBALL PLAYERS**

Chraböne, H. et al [Germany]

15:15  [YIA] 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):

Wissemann, J. [Germany]

Bentzen, S. [Norway]

14:00  [YIA] OP-PM10-1

**ADAPTATIONS TO HIGH-LOAD AND LOW-LOAD RESISTANCE TRAINING IN COPD PATIENTS AND HEALTHY OLDER SUBJECTS**

Maltmen, 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  [YIA] OP-PM10-3

**NURTURE, NATURE AND NON-RESPONSE: A NOVEL RANDOMISED CROSS-SECTIONAL 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-PM10-4

**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**

Almquist, N.W. et al [Norway]

15:00  [YIA] OP-PM10-5

**THE EFFECT OF AN EXPANDED LONG-TERM PERIODISED EXERCISE TRAINING ON HEALTH-RELATED PHYSICAL FITNESS IN PATIENTS WITH CORONARY ARTERY DISEASE**

Pinto, R. et al [Portugal]

15:15  [YIA] 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 Viga, 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  [YIA] OP-SH06-1

**THE RELEVANCE OF SCHOOL COMMUNITY WORKING RELATIONSHIPS IN PHYSICAL EDUCATION: THE CASE OF THE INSTITUTE UNIVERSITY OF MAIA PETE PROGRAMME**

Amoral-da-Cunha, M. et al [Portugal]

14:15  [YIA] OP-SH06-2

**内部 LOAD MONITORING, NOTATIONAL AND COMPLEXITY.**

Dubois, R. et al [France]

14:30  [YIA] OP-SH06-3

**The physical activity level before treatment is positively associated with maintenance of VO2max in patients with cancer**

Wiestad, T.H. et al [Norway]

14:45  [YIA] 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):

Gobrys, T. [Czech Republic]

Impellizzeri, F. [Australia]

15:00  [YIA] OP-MI02-1

**GAME PERFORMANCES AND WEEKLY WORKLOAD IN RUGBY UNION: USING OF DATA MINING PROCESS AND MACHINE LEARNING TO ENTER TO THE COMPLEXITY**

Dubois, R. et al [France]

15:15  [YIA] OP-MI02-2

**INTERNAL LOAD MONITORING, NOTATIONAL AND TIME MOTION ANALYSES, PSYCHO-METRIC STATUS, AND NEUROMUSCULAR RESPONSES OF ELITE RUGBY UNION PLAYERS’ TRAINING**

Lupo, C. et al [Italy]

15:30  [YIA] OP-MI02-3

**DIVERSE OLDER ADULTS: A MIXED METHOD LONGITUDINAL STUDY**

Asamane, E. et al [United Kingdom]

14:00  [YIA] OP-SH01-1

**PRE-SERVICE-TEACHERS IDENTITY DEVELOPMENT: THE RELEVANCE OF SCHOOL COMMUNITY WORKING RELATIONSHIPS IN PHYSICAL EDUCATION (PE) TEACHERS’ IDENTITY DEVELOPMENT**

Anderson, E. [United Kingdom]

14:15  [YIA] OP-SH01-2

**THE EFFECT OF AN EXPANDED LONG-TERM PERIODISED EXERCISE TRAINING ON HEALTH-RELATED PHYSICAL FITNESS IN PATIENTS WITH CORONARY ARTERY DISEASE**

Thorsen, I.K. et al [Denmark]

14:30  [YIA] OP-SH01-3

**SOCIAL NETWORKS AND ITS INFLUENCE ON NUTRITIONAL INTAKE, NUTRITIONAL STATUS AND PHYSICAL ACTIVITY PARTICIPATION ON THE ADOLESCENTS PHYSICAL ACTIVITY LEVELS**

Tran, H. et al [China]

14:45  [YIA] OP-SH01-4

**ACTIVE MOBILITY OF ADOLESCENT GIRLS IN PUBLIC URBAN SPACES**

Dikelmüller, R. [Austria]

15:00  [YIA] 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  [YIA] OP-SH01-6

**EQUALITY WORK IN THE SWEDISH VOLLEYBALL LEAGUE**

Karlen, S. et al [Sweden]

15:45  [YIA] OP-SH06-5

**PEAK RUNNING INTENSITIES OF ELITE YOUTH RUGBY LEAGUE MATCH PLAY**

Smith, M.R. et al [Australia]

16:00  [YIA] OP-SH06-6

**OP-PW10**

**Club E**

**Professional development - Physical education and exercise settings**

Chair(s):

Grimminger-Seidensticker, E. [Germany]

Mukherjee, S. [Singapore]

14:00  [YIA] OP-PW10-1

**THE RELEVANCE OF SCHOOL COMMUNITY WORKING RELATIONSHIPS IN PHYSICAL EDUCATION: THE CASE OF THE INSTITUTE UNIVERSITY OF MAIA PETE PROGRAMME**

Amoral-da-Cunha, M. et al [Portugal]

14:15  [YIA] OP-PW10-2

**OPPORTUNITIES FOR ENGAGING IN PRACTICAL ACTIVITIES AT CONTINUING PROFESSIONAL DEVELOPMENT IPCD WORKSHOPS ASSOCIATED WITH SELF-EFFICACY CHANGE IN SECONDARY SCHOOL PHYSICAL EDUCATION PFE TEACHERS**

Neville, R.D. et al [Ireland]

14:30  [YIA] OP-PW10-3

**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]

14:45  [YIA] OP-PW10-4

**THE PHYS-CAN STUDY: ADJUVANT CHEMOTHERAPY - RISKS OF TECHNOLOGY-ASSISTED 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]

14:45  [YIA] OP-PW10-5

**THE EFFECT OF AN EXPANDED LONG-TERM PERIODISED EXERCISE TRAINING ON HEALTH-RELATED PHYSICAL FITNESS IN PATIENTS WITH CORONARY ARTERY DISEASE**

Pinto, R. et al [Portugal]

15:15  [YIA] OP-PW10-6

**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 Viga, J. et al [Australia]
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 Catapull [Applied track]
Chair(s):
Drust, B. [United Kingdom]
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
South Hall 1A
Metabolic syndrome and diabetes I
Chair(s):
Budde, H. [Germany]
Wagenmakers, A. [United Kingdom]
16.00 [YIA] OP-PM02-1
THE EFFECTS OF DIABETES MELLITUS 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 HYPERTRYPHOPY 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 AVOIDANCE 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 IS-SP03-6
HIGH-INTENSITY INTERVAL TRAINING IS MORE EFFECTIVE IN YOUNG THAN IN ELDERLY HUMAN SUBJECTS
Schüller, M. et al [Sweden]

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 ACUMULATION PATTERNS ACROSS THE ACTIVITY SPECTRUM AND ASSOCIATIONS WITH CARDIOVASCULAR HEALTH IN YOUTH: A LATENT PROFILE & COMPOSITIONAL DATA ANALYSIS APPROACH
Verswijveren, S. et al [Australia]
16.15 [YIA] OP-PM02-2
WHICH WAY FORWARD? ELUCIDATING 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
Tao, 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 GREATDOO RANDOMIZED CONTROLLED TRIAL
Mosalman Haghighi, M. et al [Australia]
17.00 OP-PM02-5
ADOPTION 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]

South Hall 2A
Muscle damage and repair I
Chair(s):
Nosaka, K. [Australia]
Roasted, 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, L. et al [Germany]
16:30 OP-PM02-7
THREE-YEAR SURVEILLANCE OF CARDIORESPIRATORY FITNESS IN UK PRIMARY SCHOOL CHILDREN
Tuvey, S. et al [United Kingdom]
16:45 [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]
17.00 [YIA] OP-PM08-4
HUMAN SKELETAL MUSCLE METABOlytes BEFORE AND AFTER PUBERTY: A 6-YEAR LONGITUDINAL NON-INVASIVE STUDY
Lievens, E. et al [Belgium]
17:15 OP-PM08-5
VALEDITY AND RELIABILITY OF A PHOTOPLETYSMOGRAPHY DEVICE FOR MEASURING HEART RATE VARIABILITY IN PAEDIATRICS
Speer, K. et al [Australia]
17:30 OP-PM08-6
CHILDREN’S HEAVY SCREEN USE ON WEEKENDS PREDICTS HIGHER BODY MASS INDEX IN ADOLESCENTS
Engberg, E. et al [Finland]
16:30  OP-PM13-3
TRE COURSE OF MUSCLE INJURY RECOVERY AFTER COLD AND INTERMITTENT HYPOBARIC HYPOXIA TREATMENTS
Sancticides, 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
Mayrpalas, 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):
Golliofer, 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?
Lehrh, 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
Kühn, 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]

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]

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
Zernkova, E. [Slovakia]

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

17:00  OP-BN06-3
MORPHOMECHANICAL CHARACTERISTICS OF MUSCLE IN PATIENTS WITH DIABETES MELLITUS
Lu, Y.J. et al [Taiwan]

OP-MP09
Club B

Physiology: Training and testing

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

16:00  OP-MP09-1
SLEEP AND APPETITE RESPONSES TO A 6-WEEK TRAINING PROGRAM IN MIDDLE-AGE, INACTIVE WOMEN
Skenn, M. et al [Australia]

16:15  OP-MP09-2
BIO-BANDING IN YOUTH ELITE SOCCER PLAYERS – A PILOT STUDY
Ludin, D. et al [Switzerland]

16:45  OP-MP09-4
VALIDITY AND RELIABILITY OF VO2 MAX MEASUREMENTS AS AN INDICATOR OF FUTURE SUCCESS IN CYCLING
Bailey, A. et al [United Kingdom]

16:00  OP-MP09-5
THE EFFICACY OF CONTRALATERAL MUSCLE REHABILITATION EXERCISE ON PERCEIVED AND FUNCTIONAL PERFORMANCE FOLLOWING ANTERIOR CRUCIATE LIGAMENT (ACL) RECONSTRUCTION
Hong, S.W. et al [Taiwan]

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]

16:30  OP-BN06-2
DEVELOPMENT AND VALIDATION OF THE REFEREE TRAINING ACTIVITY QUESTIONNAIRE (TRAIQ): TOWARDS A BETTER UNDERSTANDING OF THE TRAINING PRACTICES OF REFEREE REFEREES
McEwan, G. et al [United Kingdom]

16:45  OP-BN06-3
THE IMPORTANCE OF PERFORMANCE IN COMPETITIONS AS AN INDICATOR OF FUTURE SUCCESS IN CYCLING
Bailey, A. et al [United Kingdom]

17:00  OP-BN06-5
CHANGE IN ANTHROPOMETRIC DATA OF 9-YEAR-OLD SCHOOLCHILDREN BETWEEN 1970 AND 2017
Krug, J. et al [Germany]

16:15  OP-BN06-4
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]
Headwood, I. [Australia]

16:00  [YIA] OP-SH02-1
THE IMPORTANCE OF PERFORMANCE IN COMPETITIONS AS AN INDICATOR OF FUTURE SUCCESS IN CYCLING
Matsaert, M. [Belgium]

16:30  [YIA] OP-SH02-2
INCREASING PHYSICAL ACTIVITY WITH HEALTH APPS FOR FAMILIES: A QUALITATIVE CONTENT ANALYSIS
Baumann, H. et al [Germany]

16:45  OP-SH02-3
PREDICTION OF ATTACKING PATTERNS IN SOCCER GAME USING NLP DEEP LEARNING MODEL
Matsuoka, H. et al [Japan]

17:00  OP-SH02-5
CHANGING IN ANTHROPOMETRIC DATA OF 9-YEAR-OLD SCHOOLCHILDREN BETWEEN 1970 AND 2017
Krug, J. et al [Germany]
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]
19:00 [YIA] OP-PM14-1
Telerehabilitation for stroke survivors: A systematic review and meta-analysis
Fransen, C. et al [The Netherlands]
19:15 [YIA] OP-PM14-2
Health-related quality of life and mental health in young women with Type 1 diabetes: A systematic review
De Koning, M. et al [The Netherlands]
00:00 [YIA] OP-PM14-3
Socio-demographic patterns of objectively measured physical activity and sedentary behavior in 18 Latin American countries: Findings from the ELANS study
Ferrari, G.L.M. et al [Chile]
08:00 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
ADJUSTING IN THE RIGHT WAY: HOW TO IMPROVE THE MENTAL RESILIENCE OF SPORTS PLAYERS
Culver, M. [United Kingdom]
09:15 IS-MI02-4
THE ADAPTION TO HIGHER-LONGITUDINAL PHYSICAL EXERTION IN MASTERS' ATHLETES
Berg, W. et al [United Kingdom]
10:00 IS-MI02-5
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
10:15 IS-MI02-6
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
10:30 IS-MI02-7
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
10:45 IS-MI02-8
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
11:00 IS-MI02-9
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
11:15 IS-MI02-10
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
11:30 IS-MI02-11
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
11:45 IS-MI02-12
THE EFFECTS OF IN-LINE SKATING ON AGING MUSCLES: A 6-MONTH PROSPECTIVE STUDY
Clerici, F. et al [Italy]
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
ANGOTENSIN 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
Benitez, 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]

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**South Hall 2A**

**Balance and stability**

Chair(s):
Zemkova, E. [Slovakia]
Kov, A. [United Kingdom]

08:00 [YIA] OP-BN02-1
TASK-SPECIFIC ADAPTABLE 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
Minela, S. [Japan]

08:45 [YIA] OP-BN02-4
THE PROFILE AND DEVELOPMENT OF THE TIBIOMOR-ORAL 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 UNLATERAL LOWER LUMBEXOSKELETON ON HUMAN BALANCE CONTROL
Ringhof, S. et al [Germany]

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**South Hall 2B**

**Skill acquisition**

Chair(s):
Vogt, T. [Germany]

08:00 OP-PM07-1
IDENTIFICATION OF ELITE PERFORMANCE CHARACTERISTICS IN A SMALL SAMPLE OF TAEKWONDO ATHLETES
Nørpal Wazir, M.R.W. et al [Belgium]

08:15 OP-PM07-2
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-PM07-3
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-PM07-4
PREPARATION FOR THE TOKYO OLYMPIC GAMES: IS THERE AN ERGOGENIC POTENTIAL OF COMBINING HEAT AND HYPOTERMIC ACCLIMATION?
Sotridis, A. et al [Slovenia]

09:00 OP-PM17-5
INFLUENCE OF HYPEROXIA ON TIME TRIAL PERFORMANCE IN HOT AND COOL CONDITIONS
Periand, 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]

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**North Hall**

**Thermoregulation I**

Chair(s):
Behm, D. [Canada]
Minahan, C. [Australia]

08:00 OP-PM17-1
IS SKIN TEMPERATURE RELATED TO PHYSIOLOGICAL STRESS AFTER A HALF MARATHON?
Prigro Guesado, J.J. et al [Spain]

08:15 OP-PM17-2
EFFECTIVENESS OF SELF-VERSS 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
Stjelland, T. et al [Germany]

08:45 OP-PM17-4
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]

09:00 OP-PM17-5
THE BICEPS BRACHII MUSCLE.
Cabral, H.V. et al [United Kingdom]

09:15 OP-PM17-6
THE BICEPS BRACHII MUSCLE.
Rizzo, N. et al [United States]

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**Club A**

**Motor unit function I**

Chair(s):
Hendy, A. [Australia]
Behm, D. [Canada]

08:00 OP-BN08-1
EFFECTS OF THREE DIFFERENT RATES OF FORCE DEVELOPMENT ON ALPHA MOTOR INHIBITION AT DISTINCT TORQUES
Flugmann, N. et al [Germany]

08:30 OP-BN08-2
OPTIMISATION OF A TECHNIQUE TO ESTIMATE PERSISTENT INWARD CURRENTS IN SPINAL MOTOR NEURONES
Mesquita, R.N.O. et al [Australia]

08:45 OP-BN08-3
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-BN08-4
SEX- AND AGE- RELATED DIFFERENCES IN EMG-THRESHOLD, DETERMINED VIA AN INTERMITTENT ISO-METRIC CONTRACTION PROTOCOL
Woods, S. et al [Canada]

09:15 OP-BN08-5
NEUROMUSCULAR MOTOR UNIT ADAPTIVE STRATEGY IN THE VASTUS MEDIALS MUSCLE OF YOUNG AND OLD ADULT
Hu, C.H. et al [Taiwan]
OP-MI04
Club H
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.
Fernandes, T. et al [Portugal]

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): Dikemüller, 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
Gonzalez-Calvo, G. et al [Sweden]
08:45 OP-SH04-4
CARBOHYDRATE, INSTEAD OF WATER, IS A MORE PROFICIENT way TO MANAGE THE RISK FOR RENAL DISORDERS IN ELITE ATHLETES
Fitzpatrick, J.F. et al [United Kingdom]

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]

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 ACCENTUATED 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 BLOUNTED 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 ILESRIMA 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]
## Oral & Invited Presentations

### OP-MI05

**Club E**

**Agility**

Chair(s):
Zemkova, E. [Slovakia]
Impellizzeri, F. [Australia]

**OP-MI05-1**

**Identifying key performance metrics associated to high/low pointers in wheelchair rugby from agility test**

Tsai, M. [Canada]

**OP-MI05-2**

**The influence of entry and exit time contribution on change of direction performance**

Clarke, R. et al [United Kingdom]

**OP-MI05-3**

**Movement variability in those with and without athletic groin pain during a running cut task.**

Gore, S. et al [Ireland]

**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]

**OP-MI05-5**

**Heart rate response and rating of perceived exertion during submaximal yo-yo IR1 test ing on sand: A pilot study**

Szwaća, S. et al [Germany]

### OP-SH09

**Club H**

**History**

Chair(s):
Loland, S. [Norway]

**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**

Tsai, M. [Canada]

**OP-SH09-2**

**Aesthetics of African diaspora: relations between ladjia (Martinique) and capoeira (Brazil)**

Pasqua, L. et al [Brazil]

**OP-SH09-3**

**Heroine Boomer: The nationalist construction of elite athletes in Chinese society**

Hu, X. [China]

**OP-SH09-4**

**Comparative study of Chinese and Western leisure sport cultures**

Li, J. et al [China]

**OP-SH09-5**

**A cultural study of drag and lunch dances in China**

Xiaojun, H. [China]

**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]
MacInlyre, T. [Ireland]

**OP-SH03-1**

**Physical activity and sedentary experiences in HPV and knee osteoarthritis: balancing between being constrained and to keep enjoying life**

Kanavaki, A.M. et al [United Kingdom]

**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]

**OP-SH03-3**

**Understanding barriers and enablers for nutritional adherence in high-performance sport**

Bentley, M.R.N. et al [United Kingdom]

**OP-SH03-4**

**Health-related and psychosocial correlates of sedentary behaviour in people living with rheumatoid arthritis: A longitudinal study**

Obren, C.M. et al [United Kingdom]

**OP-SH03-5**

**Effects of life-skills development program on young elite female athletes**

Harino, H. [Japan]

**OP-SH03-6**

**Creation and validation of the Hungarian sport motivation scale (H-SMS)**

Prisztóka, G. et al [Hungary]

### IS-SH02

**Terrace 2B**

**The role of perception in sport**

Chair(s):
Araujo, D. [Portugall]

**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]

**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]

**IS-SH02-3**

**Anticipation as perception of concatenated affordances.**

Araujo, D. [Portugall]

### Thursday, July 4

**11:30 - 12:45**

**PL-PS02**

**Congress Hall**

**Personalized exercise oncology**

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

**PL-PS02-1**

**Implementation of exercise and cancer guidelines in Europe**

Schmitz, K. et al [United States]

**PL-PS02-2**

**Evidence-based exercise guidelines for prevention and treatment of cancer**

Wiskemann, J. et al [Germany]
Thursday, July 4, 2019

14:45 - 16:15

OP-MI06

South Hall 2B

Health and fitness

Chair(s):
Pratai, L. (Italy)
Perret, C. [Switzerland]

14:45 - 16:15

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 - 15:15

ACUTE PHYSIOLOGICAL RESPONSES TO ECCENTRIC CYCLING

Dufour, S.P. [France]

15:15 - 16:00

ECCENTRIC CYCLING: BASICS AND CLINICAL APPLICATIONS [Clinical track]

Nosaka, K. [Australia]

16:00 - 16:45

SELF-PACED HIGH INTENSITY TRAINING CHRONIC LOW DOSE CAFFEINE INGESTION AND INGREDIENTS AND SUBSTRATE OXIDATION IN CYCLING DRINKS COMPONENTS ON ENDURANCE PERFORMANCE

Salam, H. et al [Iraq]

14:45 - 16:15

Thursday, July 4, 2019

ECSS Prague 2019 - Czech Republic, 3-6 July

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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]
14:15 IS-BN02-3
MUSCLE-TENDON FUNCTION DURING A DISSIPATION TO PRODUCE ACCELERATIONS IN HUMAN MUSCLES
Ferry, D. [United Kingdom]
15:45 IS-BN02-4
INTRA-CYCLE VELOCITY FLUCTUATION IN SWIMMING: A NEW APPROACH
Gouko, T et al [Norway]
16:00 IS-BN02-5
APPLICATION OF MUSCLE SYNERGY METHOD TO FLOORBALL
Yamakawa, K. et al [Japan]
16:15 IS-BN02-6
EVIDENCE FOR THE USE OF MUSCLE FATIGUE ON SCAPULAR FUNCTION
Tao, W. [China]
16:30 IS-BN02-7
AN AGEING POPULATION: RESULTS FROM A CROSS-SECTIONAL AND RANDOMIZED CONTROLLED TRIAL
Faude, O. et al [Switzerland]

OP-BN10

Club A

Testing and training in swimming I

Chair(s):
Fliess-Douer, O. [Israel]
Efferink-Gemser, M. [Netherlands]
14:15 OP-BN10-1
THE EFFECT OF SWIMMING TRAINING IN SYNCHRONIZED SWIMMERS ABILITIES
László, 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
Gouko, 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]
15:45 OP-BN10-5
EFFECTS OF 10 WEEKS FUNCTIONAL EXERCISE TRAINING ON FUNCTIONAL MOVEMENT SCREEN AND Y-BALANCE TEST IN YOUNG MALE
Faude, O. et al [Germany]
16:00 OP-BN10-6
EVIDENCE FOR THE USE OF MUSCLE FATIGUE ON SCAPULAR FUNCTION
Tao, W. [China]

OP-MI07

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
Birkbauer, 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
Akkö, D.P. et al [Germany]
15:30 OP-SH11-4
EFFECT OF EXERCISE DURATION ON COGNITIVE PERFORMANCE 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 Familial History of Alzheimer Disease
Chiu, Y.K. et al [Taiwan]
16:00 OP-SH11-6
PHYSICAL FITNESS AND COGNITIVE FUNCTION IN AN AGING POPULATION: RESULTS FROM A CROSS-SECTIONAL AND RANDOMIZED CONTROLLED TRIAL
Faude, O. et al [Switzerland]

OP-SH11

Terrace 2A

Sport management

Chair(s):
Dikelmüller, R. [Austria]
Fritz, G. [Germany]
14:45 OP-SH10-1
THE REFORM FOR RESTRUCTURING GERMAN COMPETITIVE SPORT AND THE PROMOTION OF TOP-LEVEL SPORT – GENESAND STATUS QUO
Schulze, E. et al [Germany]
15:00 OP-SH10-2
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
DELIBERATING TALENT TRANSFER USING AN EVALUATION MANAGEMENT THEORY
Cury, R. et al [Australia]

IS-SH10

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 BEHAVIOURAL FACTORS AND FACTORS OF CHILDREN’S PHYSICAL ACTIVITY, HEALTH AND ACADEMIC PERFORMANCE
Duncan, M. [United Kingdom]
15:30 IS-SH03-3
EVALUATING INTERVENTIONS FOR CHILDREN’S PHYSICAL ACTIVITY, MOTOR COMPETENCE AND ACADEMIC PERFORMANCE
Duncan, M. [United Kingdom]
Thursday, July 4, 2019

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 AGING 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]
18:15 IS-PM03-4

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]
16:45 IS-EX01-2

THE IPC CLASSIFICATION CODE AND POSITION STAND ON THE SCIENTIFIC PRINCIPLES OF ATHLETE CLASSIFICATION

Vanlandewijck, Y. [Belgium]
17:15 IS-EX01-3

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 INTERCOXAL 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

Gruel, 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 OP-PM22-6

PHYSIOLOGICAL ASSESSMENT OF DIFFERENT SAILING TECHNIQUES IN YOUNG ELITE WINDSURFERS

Roberto, S. et al [Italy]
South Hall 2A

Biomechanics: Running

Chair(s):
Salo, A. [Finland]
Nicoll, 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 KINETICS AND KINETICS DURING A 3D 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

Gill-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 SPRINTER AND 100-M HURDLES

Paradisis, G. et al [Greece]
18:15 OP-BN11-7

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-BN11-1

CRITICAL PERIPHERAL FATIGUE THRESHOLD AMONG DIFFERENT FORCE-VELOCITY CONDITIONS: AN INDIVIDUAL-BASED APPROACH TO BETTER UNDERSTAND THE FATIGUE ETIOLOGY

Morel, B. et al [France]
17:15 OP-BN12-2

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-BN12-3

EFFECT OF MUSCLE-TENDON UNIT LENGTH ON DIFFERENT FORCE-VELOCITY CONDITIONS: GROWING EVIDENCE OF THE NEED OF A SEPARATE ANALYSIS OF THE FIRST AND SECOND M-WAVE PHASES

Chapman, J. et al [United States]
17:45 OP-BN12-4

THE NEUROMUSCULAR FATIGUE INDUCED BY A SIMULATED MIXED MARTIAL ARTS 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 - Sponsord by Adidas [Clinical track]

Chairs:
Gollhofer, A. [Germany]

A "FATAL CAREER": DEVELOPMENT OF CHRONIC ANKLE INSTABILITY IN SPORTS – THE BIOMECHANICAL PERSPECTIVE
Gehring, D. [Germany]

PREVENTION OF PRIMARY AND SECONDARY ANKLE SPRAINS – THE PHYSIOTHERAPEUTIC PERSPECTIVE
Delahunt, E. [Ireland]

ANKLE INSTABILITY IN SPORTS – THE BIOMECHANICAL PERSPECTIVE
Trama, R. et al [France]

**OP-BN13 Club A**

Sport technology I

Chairs:
Hettinga, F. [United Kingdom]
Madeleine, P. [Denmark]

HEAD IMPACT TELEMETRY IN NON-HELMETED COLLISION SPORTS: TOWARDS SETTING MINIMUM REPORTING STANDARDS
Williams, E.M.P. et al [United States]

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 ANIMU 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-M108 Club E**

Ageing I

Chairs:
Verdijk, L. [Netherlands]
Esser, K. [United States]

16.45 OP-M108-1
THE EFFECT OF TWO DIFFERENT FREQUENCIES AND TYPES OF CONCURRENT STRENGTH AND AEROBIC TRAINING PROGRAMS ON PHYSICAL PERFORMANCE IN OLDER ADULTS
Oreskó, L. et al [Slovakia]

17.00 OP-M108-2
THE ACUTE EFFECTS OF DIFFERENT MODES OF SPRINT INTERVAL TRAINING IN OLDER ADULTS
Yasar, Z. et al [United Kingdom]

17.15 OP-M108-3
INFLUENCE OF INERTIAL RESISTANCE LOW ROW EXERCISE ON PHYSICAL ABILITIES AMONG OLDER ADULT WOMEN
Spudic, D. et al [Slovenia]

17.30 OP-M108-4
EFFECTS OF SEATED ISO Kinetic Eccentric Training and Detraining on Mobility, Balance, Strength, Muscle Size and Architecture in Older Adults
Kap, A.D. et al [United Kingdom]

17.45 OP-M108-5
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-M108-6
THE EFFECT OF VITAMIN D SUPPLEMENTATION AND NORDIC WALKING TRAINING ON MUSCLE STRENGTH AND POSTURAL CONTROL IN ELDERY POPULATION
Mieszkowski, J. et al [Poland]

**OP-BN14 Club H**

Motor learning and motor control: Talent - Skills - Performance

Chairs:
Duncan, M. [United Kingdom]
Davids, K. [United Kingdom]

16.45 OP-BN14-1
NEURAL PROCESSES DETERMINING THE VISUAL-MOTOR REACTION SPEED OF ELITE YOUTH TABLE TENNIS ATHLETES
Hülsdunker, T. et al [Germany]

17.00 OP-BN14-2
INVESTIGATING THE ALTERED RESTING-SATE 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 VMS CORRECTSPINAL EXCITABILITY
Grey, M.J. et al [United Kingdom]

18.00 OP-BN14-6
BRAN 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

Chairs:
Leméry, 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
Berk, 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
Schiphol-Godart, L. et al [Netherlands]

**OP-SH13 Terrace 2B**

Ethical behaviour in sport

Chairs:
Elbe, A. [Germany]
Anderson, E. [United Kingdom]

16.45 OP-SH13-1
MATCH-FIXING AS THREAT TO SPORT
Mrovec, 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]

24th Annual Congress of the European College of Sport Science
Thursday, July 4, 2019

18:30 - 20:00

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 - 19:00

OP-PM04

Heart failure and cardiovascular disease

Chair(s):
Pratali, L. (Italy)
George, K. (United Kingdom)

18:30 - 19:00

OP-PM23

Cardiac function and cardiovascular diseases

Chair(s):
Pratali, L. (Italy)
George, K. (United Kingdom)

18:30 - 19:00

OP-PM24

Recovery from sports and exercise

Chair(s):
Raschler, C. (Austria)
Meyer, T. (Germany)

18:30 - 19:00

OP-MN15

Biomechanics: Winter sports

Chair(s):
Patricio, D. (Canada)
Lindinger, S. (Sweden)

18:30 - 19:00

OP-BN16

Motor unit function II

Chair(s):
Behm, D. (Canada)
Zijdewind, I. (Netherlands)

18:30 - 19:00

OP-BN16-1

A single session of neuromuscular electrically-evoked somatic contractions generates superficial activation of knee extensor muscles and localized alterations

18:30 - 19:00

OP-BN16-2

Neuromuscular- and temperature-dependent factors influencing muscle force potentiation after warm-ups with different force-velocity characteristics

18:30 - 19:00

OP-BN16-3

Muscle-specific modulation of motor evoked potentials and spinal reflexes of agonist and antagonist muscles during voluntary contraction

18:30 - 19:00

OP-BN16-4

acute adaptations in spinal and corticospinal excitability following visuo-motor skill learning

18:30 - 19:00

OP-BN16-5

Effect of anodal transcranial direct current stimulation on voluntary activation levels and maximal voluntary contractions in the quadiceps muscle

18:30 - 19:00

OP-BN16-6

Enhanced availability of serotonin excertes central fatigue during maximal voluntary contractions

18:30 - 19:00

OP-BN16-7

Neuromuscular junction: voluntary activation and fatigue

Chair(s):
Kavanagh, J.J. et al. (Australia)

18:30 - 19:00

OP-BN16-8

Modulation of fast and slow twitch muscle fiber recruitment in the quadriceps muscle during high-intensity exercise

Chair(s):
Kavanagh, J.J. et al. (Australia)

18:30 - 19:00

OP-BN16-9

Modulation of the force-velocity relationship of vastus lateralis muscle fibers in response to a single bout of heavy resistance strength training

Chair(s):
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]  
19:00  
IS-BN03-1  
ENHANCING PHYSICAL PERFORMANCE WITH TRANSCRANIAL DIRECT CURRENT STIMULATION: STATE OF THE ART AND FUTURE PERSPECTIVES  
Angius, L. [United Kingdom]  
19:30  
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-PM46**

**Club E**  
**Cardiovascular physiology I**

Chair(s):  
Giardina, M. [Italy]  
18:30  
OP-PM46-1  
EFFECT OF SURGICAL REVASUALERATION 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 PRO-TEGUCYAN 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-AGED 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 IS ASSOCIATED WITH TROPONIN ELEVATION: THE INDONESIAN NORTH COAST AND TOUR DE BOROBUDUR 2017 TROPONIN STUDY  
Azam, M. et al [Indonesia]

**OP-SH14**

**Terrace 2A**  
**Psychology: Health and wellbeing**

Chair(s):  
Knisel, E [Germany]  
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 DIS-SATISFACTION 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]

**OP-SH14**

**Terrace 2B**  
**Psychology: Health and wellbeing**

Chair(s):  
Coteron, J. [Spain]  
18:30  
IS-SH04-1  
AUTONOMY-SUPPORTIVE TEACHERS IN PHYSICAL EDUCATION: UNDERSTANDING DISPOSITIONAL AND CONTEXTUAL DETERMINANTS  
Franco, E [Spain]  
19:00  
IS-SH04-2  
A MULTILEVEL APPROACH TO UNDERSTAND STUDENTS’ MOTIVATION TAKING INTO ACCOUNT TEACHERS’ ANTECEDENTS  
Forrest, L.J. et al [United Kingdom]  
19:30  
IS-SH04-3  
IMPORTANCE AND FEASIBILITY PERCEIVED IN MOTIVATIONAL STRATEGIES BY PHYSICAL EDUCATION TEACHERS  
Hess, C.M. [Brazil]

**IS-SH04**

**Terrace 2B**  
**Psychology: Health and wellbeing**

Chair(s):  
Coteron, J. [Spain]  
18:30  
IS-SH04-1  
AUTONOMY-SUPPORTIVE TEACHERS IN PHYSICAL EDUCATION: UNDERSTANDING DISPOSITIONAL AND CONTEXTUAL DETERMINANTS  
Franco, E [Spain]  
19:00  
IS-SH04-2  
A MULTILEVEL APPROACH TO UNDERSTAND STUDENTS’ MOTIVATION TAKING INTO ACCOUNT TEACHERS’ ANTECEDENTS  
Forrest, L.J. et al [United Kingdom]  
19:30  
IS-SH04-3  
IMPORTANCE AND FEASIBILITY PERCEIVED IN MOTIVATIONAL STRATEGIES BY PHYSICAL EDUCATION TEACHERS  
Hess, C.M. [Brazil]
Friday, July 5, 2019

**8:00 - 09:30**

### IS-PM06

**Congress Hall**

**The lungs during exercise: often overlooked, often misunderstood** (Clinical track)

Chair(s):
- Kippelen, P. [United Kingdom]
- Romer, L.M. [United Kingdom]

08:00 - 09:30

**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 METABOFLUX 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 CARDIORESPIRATORY FITNES AND MUSCULAR STRENGTH IN ADULTS WITH TYPE 2 DIABETES: A RANDOMIZED CONTROLLED TRIAL

Cox, E.R. et al [Australia]

**OP-PM26**

#### South Hall 1B

**Team sports: Soccer**

Chair(s):
- Minahan, C. [Australia]
- Meyer, T. [Germany]

08:00

**OP-PM26-1**

COMPARISON BETWEEN SKELETAL MUSCLE ADAPTATIONS TO FREE-RUNNING WHEEL AND HIGH-INTENSITY INTERVAL TRAINING

Belezia, J. et al [Portugal]

08:45

**OP-PM26-2**

EFFECTS OF TRAINING INTENSITY ON THE VO2 AND MUSCLE DEOXYGENATION KINETICS

Reis, J.F. et al [Portugal]

**OP-PM26-3**

THE EFFECT OF ISCHEMIC PRECONDITIONING ON CENTRAL MOTOR OUTPUT AND MUSCLE CONTRACTILITY AFTER A REPEATED SPRINT EXERCISE

Krogh, M. et al [Denmark]

**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**

EXTRA SCHOOL-BASED PHYSICAL EDUCATION REDUCES RISK OF DEVELOPMENT OF METABOLIC SYNDROME IN 9-10 YEAR OLD CHILDREN

Rehmane, D. et al [Latvia]

**OP-PM26-6**

FUNCTIONAL VS. RUNNING LOW-VOLUME HIT EFFECTS ON VO2MAX AND MUSCULAR ENDURANCE

Men, V. et al [Austria]
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]
Mello, M. [Brazil]
Pratali, L. [Italy]

**OP-PM28**

**Club A**

Hypoxia I

Chair(s):
Prata, L. [Italy]
Mello, M. [Brazil]

**OP-PM28**

08.30 **OP-PM28-1**
AEROBIC AND ANEROBIC 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

Schüler, H. et al [Germany]

**OP-PM27**

**Club E**

Sport injuries and orthopedics I

Chair(s):
Skorski, S. [Germany]
Mukherjee, S. [Singapore]

**OP-PM27**

08.30 **OP-PM27-1**
INJURIES IN NATIONAL TEAM DUTY: A 2-YEAR PROSPERATIVE 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 SOKINETIC 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?

Malysius, L. [Luxembourg]

09.00 **OP-PM27-5**
TIME TO CONCENTRATE? CONCENTRATION DISRUPTED AS A CONTRIBUTING FACTOR TO THE OCCURRENCE OF ACUTE INJURIES DURING ELITE

**FEMALE SOCCER GAMES**

Werrisal, R. [Belgium]

**OP-PM28-3**
EFFECTS OF "LIVING HIGH TRAINING LOW" ON MUSCLE OXYGEN CONTENT: A DOUBLE-BIND PLACEBO-CONTROLLED STUDY

Costigliola, 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 H**

Sports technology II

Chair(s):
Abt, G. [United Kingdom]
Wong, D. [China]

**OP-BN18-1**
DEVELOPMENT OF AN AUTOMATIC ALPINE SKIING TURN DETECTION ALGORITHM BASED ON A SIMPLE SENSOR SETUP

Martínez, A. et al [Australia]

08.15 **OP-BN18-2**
COMPARISON OF WEARABLE GPS DEVICES FOR DISTANCE AND SPEED ESTIMATION ACROSS DIFFERENT MOTION PATHS

Rizazadeh, 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]

**OP-BN18-6**
CONTACT-FREE MEASUREMENT OF NOCTURNAL HEART RATE VARIABILITY BY BALLISTOCARDIOGRAPHY BASED EMF QRS DETECTION IN CYCLING AND THE DEVELOPMENT OF A NO-NETWORK SOLUTION IN CYCLING

Vesterinen, V. et al [Finland]

**OP-BN18**

**Terrace 1A**

**OP-BN18-1**
CHALLENGES ASSOCIATED WITH HIGH-DENSITY PLACEMENT OF ANTELOPE AND POSSIBLE ASSOCIATION WITH ACUTE MOUNTAIN SICKNESS

Manferdelli, G. et al [Italy]

**OP-BN18-2**
THE OCCURRENCE OF ACUTE INJURIES DURING ELITE

BERS ACROSS A SEASON

Malisoux, L. [Luxembourg]

**OP-PM27-1**
INJURY CONSEQUENCES OF CHANGES IN MOTOR UNIT

Enoka, R.M. [United States]

08.00 **OP-PM27-2**
INJURIES IN NATIONAL TEAM DUTY: A 2-YEAR PROSPERATIVE FOLLOW-UP OF INJURIES OCCURRING IN NATIONAL TEAM FOOTBALL PLAYERS DURING THE OFFICIAL FIFA CALENDAR

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EFFECTS OF “LIVING HIGH TRAINING LOW” ON MUSCLE OXYGEN CONTENT: A DOUBLE-BIND PLACEBO-CONTROLLED STUDY

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08.45 **OP-PM28-4**
CEREBRAL DEOXYGENATION DURING HYPOXIC EXERCISE AND POSSIBLE ASSOCIATION WITH ACUTE MOUNTAIN SICKNESS

Manferdelli, G. et al [Italy]
OF A FATIGUE INDEX
Lamerts, R.P. [South Africa]
10:15
IS-M04-2
ACUTE AND CHRONIC RESPONSES TO INDIVIDUALIZED TRAINING PRESCRIPTIONS
Hopker, J. [United Kingdom]
10:45
IS-M04-3
OPTIMISING HIGH-INTENSITY AEROBIC TRAINING SESSIONS AND MONTHLY TRAINING ORGANISATION IN ENDURANCE ATHLETES
Ronnestad, B.R. [Norway]

OP-PM30
Panorama Hall
Cardiovascular physiology
Chair(s):
Laaksonen, M. [Sweden]
Thompson, W. [United States]
09:45
OP-PM30-2
CAROVOE DRIFT AND LEFT VENTRICULAR PERFORMANCE DURING PROLONGED EXERCISE AT MODERATE INTENSITY
Laginestra, F.G. [Italy]
10:00
OP-PM30-3
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-PM30-4
AGE EFFECTS ON THE DEFLECTION OF THE HEART RATE PERFORMANCE CURVE IN MAXIMAL INCREMENTS OF CYCLE RHYTHM EXERCISE IN A LARGE COHORT OF HEALTHY SUBJECTS
Bimbaum, P. et al [Austria]
10:30
OP-PM30-5
INCREASED LEVELS OF PLASMA ENDOTHELIN-1 IET-1) IN RESPONSE TO ACUTE EXTREME PHYSICAL BUT NOT TO MENTAL STRESS WITH PRESERVED LEFT VENTRICULAR FUNCTION IN MALE HUNGARIAN ATHLETES
Ligetvári, R. et al [Hungary]
10:45
OP-PM30-6
CHANGES IN QT INTERVAL AND T-WAVE OF THE ELECTROCARDIOGRAM IN MALE MIDDLE-LONG DISTANCE RUNNERS OVER A THREE-YEAR TRAINING PERIOD
Shi, Q. et al [Macau]

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 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 ENDONARY FEMALES ADULTS
Wen, H.J. et al [Taiwan]
10:45
OP-PM30-3
CHANGES IN QT INTERVAL AND T-WAVE OF THE ELECTROCARDIOGRAM IN MALE MIDDLE-LONG DISTANCE RUNNERS OVER A THREE-YEAR TRAINING PERIOD
Shi, Q. et al [Macau]

South Hall 1B
Muscle damage and repair II
Chair(s):
Bogdanis, G. [Greece]
Damicco, A. [United States]
09:45
OP-PM32-1
EXERCISE-INDUCED MUSCLE DAMAGE THROUGHOUT THE MENSTRUAL CYCLE Romero-Parras, 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 SHORTER STRIDE LENGTH AND HIGH MUSCLE DAMAGE VALUES 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]

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 NEURO-PHYSIOLOGICAL INDICES OF WORKING MEMORY MAINTENANCE
Ludgga, 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 FEMALES?
Seges, 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
Mieszawski, 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
Paikolainen, J. et al [Finland]

South Hall 2B
Training and testing in swimming II
Chair(s):
Nobis-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 TETHED SWIMMING
Espada, M. et al [Portugal]
10:15
OP-BN20-3
EFFECTS OF DIFFERENT IN-WATER AND DRY-LAND RECOVERY STRATEGIES ON REPEATED 100M FREESTYLE PERFORMANCE, PHYSIOLOGICAL RESPONSES AND PERCEPTUAL STATUS OF ADULT 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
Seflink, 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 CAN'T 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
Widowski, 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 OVER GROUND 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 OLYMPIC ATHLETES
Amiro, 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
Shimo, N. et al [Japan]

**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 AS NATURE-BASED TOURISM IN NORWAY
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]
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 HYPERTRPHY 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-PM36
South Hall 1A
Nutrition: Ergogenic aids II
Chair(s):
Roelands, B. [Belgium]
Brandstaetter, R. [Australia]

14:45 OP-PM36-1
A MODERATE CAFFEINE DOSE INCREASES STRENGTH PERFORMANCE IN RESISTANCE-TRAINED FEMALES
Risvang, L. [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
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-PM36-4
CHARACTERIZING THE PLASMA METABOLOME DURING AND FOLLOWING A MAXIMAL EXERCISE CYCLING TEST
Fairchild, T.J. et al [Australia]

16:00 OP-PM36-5
DISSOCIATION BETWEEN PERCEPTION OF EFFORT AND MUSCLE PAIN DURING CYCLING EXERCISE
Clos, P. et al [France]

OP-MI11
South Hall 2A
Cycling
Chair(s):
Lambers, R. [South Africa]
Dufour, S. [France]

14:45 OP-MI11-1
EFFECT OF POSTURE ON DIFFERENT INDEXES USED TO ASSESS THE AERO_DYNAMIC 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
Yoon, C. et al [Korea, South]

15:30 OP-MI11-3
DIURNAL AND DAY-TO-DAY VARIATIONS IN ISOMETRIC AND ISOKINETIC LEG AND ARM STRENGTH
Knaier, R. et al [Switzerland]

15:45 OP-MI11-4
MENTAL FATIGUE ALTERS WEIGHT PERCEPTION AND INCREASES RPE DURING RESISTANCE TRAINING SESSIONS
Staiano, W. et al [Spain]

16:00 OP-MI11-5
ACUTE CHANGES IN HEART RATE VARIABILITY AFTER RESISTANCE TRAINING SESSIONS DIFFERING IN SET CONFIGURATION
Rúa-Alonso, M. et al [Spain]
Muscle and/or tendon function II
Kovács, B. et al [Hungary]
15:00 OP-BN22-2
CHANGES IN HAMSTRING MORPHOLOGY AND ARCHITECTURE ARE NOT ASSOCIATED WITH SPRINTING PERFORMANCE
15:15 OP-BN22-3
THE EFFECT OF STEP FREQUENCY ON THE BEHAVIOR OF MEDIAL GASTROCNEMIUS MUSCLE-TENDON PROXIMAL-DISTAL HAMSTRINGS ELECTROMYOGRAPHY ACTIVITY AT DIFFERENT RUNNING SPEEDS
OReilly, J. et al [Hong Kong]
15:45 OP-BN22-5
THE RELATIONSHIP BETWEEN THE LEVEL OF ALL-AROUND DEVELOPMENT AND THE ACQUISITION OF SPECIFIC SPORT SKILLS IN CHILDREN IN YOUNGER SCHOOL AGE
Perez-Bey, A. et al [Spain]
16:00 OP-BN22-6
THE EFFECTS OF MUSCLE MASS ON CONTRACTILE PERFORMANCE IN HUMANS
Ross, S.A. et al [Canada]
Friday, July 5, 2019
16:45 - 18:15
IS-PM08

South Hall 1A
Fat, glucose and metabolism
Chair(s):
Basset, F. [Canada]
Ana, I. [Spain]

16:45 - 17:15

IS-EX02
Panorama Hall

ECSS-JSPSMS Exchange symposium:
Lactate/pyruvate metabolism in skeletal muscle: Energy substrates and beyond
Chair(s):
Nagatomi, R. [Japan]

17:15 - 17:30

OP-PM40
South Hall 1B

Nutrition: Protein and dietary regimens
Chair(s):
Rowlands, D. [New Zealand]
Patricia, D. [Canada]

16:45 - 18:00

OP-PM45
South Hall 2B

Exercise therapy
Chair(s):
Wiskernmann, J. [Germany]
Zijdevind, I. [Netherlands]

16:45 - 18:45

OP-PM52
South Hall 2B

Health and fitness: Cardiovascular
Chair(s):
Cogo, A. [Italy]
MacDonald, M. [Canada]

16:45 - 18:45

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OP-MI12

Club A

Team sports: Soccer

Chair(s):
Gaby, T. [Czech Republic]
Edwards, A. [United Kingdom]

16:45 OP-MI12-1
MOTOR ABILITY AND LOWER LIMBS KINESIMICS IN YOUNG FOOTBALL PLAYERS: AN INERTIAL SENSOR-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/V RATIO AND THE ANGLE OF MAXIMAL TORQUE IN PROFESSIONAL SOCCER PLAYERS
Zheng, Q.S. et al [China]

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
Simkin, A. et al [Ireland]

18:00 OP-MI12-6
THE IMPACT OF SMALL SIDED GAMES ON THE DECISION-MAKING ABILITY OF SOCCER PLAYERS
Mitratasios, 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 ANTOGENESIS ASSOCIATED PATHWAYS PREDICT 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 TGFBR3 AND TGFBI 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
Flick, 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]

17:45 OP-PM50-5
EFFECTS OF WHEEL RUNNING ON BLOOD-BRAIN-BARRIER PERMEABILITY IN HIGH-FAT-DIET FED MICE
Watanabe, C. et al [Japan]

18:00 OP-PM50-6
HYPOTERMIC TRAINING IN OBESE MICE WITH METABOLIC DISORDER
ru, w. [China]

OP-BN24

Terrace 2A

Paralympics

Chair(s):
Flies-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 WITH A LOCOMOTOR IMPAIRMENT
Bernardi, M. et al [Italy]

17:15 OP-BN24-3
CURRENT PERFORMANCE TESTING IN ELITE PARALYMPIC ATHLETES WITH A LOCOMOTOR IMPAIRMENT
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 PIKING STRATEGIES FOR WHEELCHAIR BASKETBALL PLAYERS
Rupf, R. et al [Canada]

18:00 OP-BN24-6
EXPANSION OF LOWER-LIMB MUSCLE REPRESENTATION IN A PARALYMPIC ARCHER WITH CONGENITAL AMPUTATION OF BOTH ARMS
Nakagawa, K. et al [Japan]
**Friday, July 5, 2019**

**IS-SH07**
Terrace 2B

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

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

16:45 IS-SH07-2
THE RECEPTION OF ESPORTS AMONG GERMAN STUDENTS, AND PEDAGOGICAL CONSIDERATIONS
Hofmann, A.R. [Germany]

17:15 IS-SH07-3
E-SPORT AND DIGITALISATION AS A TOOL FOR PHYSICAL LEARNING IN SCANDINAVIA
Radmann, A. [Norway]

17:45 IS-SH07-4
ACTORS AND INTERESTS IN THE ESPORT ECO SYSTEM
Fritz, G. et al [Germany]

**OP-PM09**
South Hall 2B

Hypoxia II

Chair(s):
AINSLE, 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
Tang, F. et al [Japan]

19:00 OP-PM56-3
EFFECT OF INTERMITTENT HYPOXIC RESISTANCE TRAINING (IHRT) ON MORPHOLOGICAL AND STRENGTH ADAPTATIONS AND ACUTE RESPONSES TO EXERCISE
Segura-Jiménez, V. et al [Spain]

**OP-PM41**
South Hall 1A

Health and fitness: Sedentary lifestyle

Chair(s):
Nososka, K. [Australia]
Kodi, F. [Sweden]

18:30 OP-PM55-2
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-PM55-3
STRENGTH ADAPTATIONS AND ACUTE RESPONSES – THE APPLICATION OF MRS-BASED MEASUREMENTS TO ASSESS STROKE VOLUME AFTER EXERCISE
Péricard, J. et al [United Kingdom]

**OP-PM55**
South Hall 2A

Health and fitness: Sedentary lifestyle

Chair(s):
Nososka, K. [Australia]
Kodi, F. [Sweden]

18:30 OP-PM55-2
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-PM55-3
STRENGTH ADAPTATIONS AND ACUTE RESPONSES – THE APPLICATION OF MRS-BASED MEASUREMENTS TO ASSESS STROKE VOLUME AFTER EXERCISE
Péricard, J. et al [United Kingdom]

**OP-PM41**
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
Mullin, G. et al [Italy]

19:00 OP-PM47-3
NO SIGNIFICANT DIFFERENCE BETWEEN VO2MAX DETERMINED DURING AN INCREMENTAL OR A MAXIMAL 2K TEST
Garn, 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 (CIT) IN YOUNG WOMEN WITH OBESITY
Okawa, R.T.P. et al [Brazil]

**OP-PM47**
South Hall 1A

Nutrition: Amino acids and proteins

Chair(s):
Breen, L. [United Kingdom]

18:30 IS-PM10-1
PHYSICAL PERFORMANCE OF MASTERS ATHLETES
Borges, N. [Australia]

18:30 IS-PM10-2
HEALTH BENEFITS AND CONSIDERATIONS FOR MASTERS ATHLETES
Piciocchin, M.F. [Italy]

19:00 IS-PM10-3
KNEE IMMOBILISATION IN YOUNG HEALTHY MALES
Edwards, S. et al [United Kingdom]

19:45 IS-PM10-4
DOES HABITUATION TO A HIGH PROTEIN DIET INFLUENCE WHOLE-BODY PROTEIN KINETICS IN A FASTED AND POSTPRANDIAL STATE?
Hjølberg, G. et al [Denmark]

19:00 IS-PM10-5
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 IS-PM10-6
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 IS-PM10-7
PROTEIN DIGESTION AND AMINO ACID ABSORPTION ARE COMPROMISED IN OLDER COMPARED WITH YOUNG ADULTS
Gorissen, S.H.M. et al [Netherlands]

19:45 IS-PM10-8
EFFECTS OF LOW OR HIGH AMOUNTS OF DIETARY PROTEIN AND RESISTANCE TRAINING ON MUSCLE COMPOSITION AND MUSCLE STRENGTH IN PRE-Menopausal Women
Lepers, R. et al [France]

**OP-PM41**
South Hall 2B

Smart moving: Sitting behaviour and habitual physical activity level of university students in Germany
Hoffmann, S.W. et al [Germany]

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 (CIT) IN YOUNG WOMEN WITH OBESITY
Okawa, R.T.P. et al [Brazil]

19:00 IS-PM09-1
NON-INVASIVE ASSESSMENT OF MUSCLE FIBER TYPOLGY BY PROTON MAGNETIC RESONANCE SPECTROSCOPY IN ELITE Athletes
Derave, W. [Belgium]

19:30 IS-PM09-2
THE APPLICATION OF MRS-BASED MEASUREMENTS FROM THE LAB TO THE POOL, TRACK, AND FIELD
Minahan, C. [Australia]

19:45 IS-PM09-3
KNEE IMMOBILISATION IN YOUNG HEALTHY MALES
Edwards, S. et al [United Kingdom]

18:45 OP-PM41-1
EFFECTS OF HIGH-DOSE LECIDINE SUPPLEMENTATION DOES NOT ATTENUATE FUNCTIONAL AND METABOLIC DECLINES FOLLOWING 7-DAYS OF UNILATERAL KNEE IMMOBILISATION IN YOUNG HEALTHY MALES
Breen, L. [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?
Hjølberg, 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 COMPOSITION AND MUSCLE STRENGTH IN PRE-Menopausal Women
Lepers, R. et al [France]

18:30 IS-PM07-1
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]
A SINGLE-BLIND RANDOMIZED CONTROLLED TRIAL
Schöler, R. et al (Germany)
19:15 OP-PM56-4
PSYCHO-PHYSIOLOGICAL RESPONSES TO PERCEP-
TUALY-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 ADAP-
TATION IN YOUTH ATHLETES
Mersmann, F. (Germany)
19:30 IS-BN06-3
DISCORDANCE IN MUSCLE AND TENDON ADAP-
TATION 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):
Giardino, 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
Anthieren, A. et al (France)
18:45 OP-BN25-2
THE EFFECTS OF WHOLE BODY ELECTROKRYSOTIMU-
LATION (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 EXTEN-
SION RESISTANCE EXERCISE FOR PATIENTS WITH
CHRONIC NECK PAIN AND SPINE DEGENERATION
Lösch, 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
McNel, 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 MUS-
CLES, 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 MECHANICAL PROPERTIES OF TREADMILLS
DO NOT REPRESENT THOSE OF OTHER SURFACES
TYPICALLY USED FOR SPORTS PRACTICE
Colino, E. (Spain)
18:45 OP-BN26-2
INDIVIDUAL FLEXION STIFFNESS VERSUS MANUFAC-
TURERS’ FLEX INDEX OF SKI BOOTS
Immler, L. et al (Austria)
19:00 OP-BN26-3
THE INTERPLAY BETWEEN FOOTWEAR TYPES AND
EXERCISE-INDUCED FATIGUE DO NOT ALTER RUN-
NING ECONOMY
Bosco, 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 SPRINTER POWER IS
RELATED TO OVER-GROUND SPRINTER PERFOR-
MANCE IN ELITE TEAM SPORTS ATHLETES
Scharmer, M. et al (Austria)
19:45 OP-BN26-6
TESTING OF A 3D VIDEO ENVIRONMENT FOR VOL-
LEYBALL COACHES
Lombard, G. et al (Belgium)

OP-PM53
Terrace 2A
Healthy and fitness: Clinical popula-
tions 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 INTO-
CHONDRIAL BIOGENESIS PATHWAY AND MICRO-
RNA INDICES IN HIGH LEVEL PHYSICAL CAPACITY
MEN? A PILOT STUDY
Sánchez-Lorente, I. et al (Spain)
18:45 OP-PM53-2
THE IMPACT OF ACUTE AEROBIC EXERCISE ON
MICRONAS 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
RESPIRATORY TOLERANCE TO MAXIMUM EXERCISE IN INDIVIDUALS WITH INTELLECTUAL DIS-
ABILITY WITH AND WITHOUT DOWN SYNDROME
INVOLVED IN COMPETITIVE ADAPTED FOOTBALL
Barrios, C. et al (Spain)

OP-PM54
Saturday, July 6, 2019

**OP-PM42**  
Panorama Hall  
**Nutrition: Other supplements**  
Chair(s):  
Bassett, 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  
Unwin, 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 O2 EXTRACTION DURING SUBMAXIMAL EXERCISE IN HYPOBARIC HYPOXIA  
Rosica, L. et al [Italy]  
09:00 OP-PM42-5  
CATECHIN-RICH GREEN TEA INTAKE REDUCES EXERCISE-INDUCED BLOOD PRESSURE ELEVATION AND ENHANCES EXECUTIVE FUNCTION  
Takamato, H. et al [Japan]  
09:15 OP-PM42-6  
EFFECTS OF SALVIA MILITARIS 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]  
08:30 IS-EX03-1  
THE EXPERIMENTAL STUDIES ON THE LATEST REFORMS FOR TABLE TENNIS  
Xiao, D. [China]  
09:00 IS-EX03-2  
THE EFFECT OF EXERCISE, DIETARY RESTRICTION AND HYPOXIA ON BLOOD LIPID IN OBESE PEOPLE  
Zhang, L. [China]  
09:15 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):  
Harlin, M. [New Zealand]  
Hendry, A. [Australia]  
08:00 OP-PM48-1  
CHARACTERISING CEREBRAL HEMODYNAMIC OSCILLATIONS DURING RUNNING  
Im, G. et al [United Kingdom]  
08:15 OP-PM48-2  
VAGAL-RELATED HEART RATE VARIABILITY, NOT ITS CO-EFFICIENT OF VARIATION, INDICATES IMPAIRED EXERCISE PERFORMANCE DURING FUNCTIONAL OVERREACHING  
Bellenger, C. [Australia]  
08:30 OP-PM48-3  
CARDIORESPIRATORY RESPONSE OF PARAVEDICS 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 (MCT) 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 DERTRAINING ON AMBULATORY BLOOD PRESSURE AND MORNING BLOOD PRESSURE SURGE IN YOUNG NORMOTENSIVES  
Baross, A. W. et al [United Kingdom]

**OP-BN27**  
**South Hall 2B**  
**Strength and power II**  
Chair(s):  
Nosaka, K. [Australia]  
Krug, J. [Germany]  
08:00 OP-BN27-1  
INTERACTION BETWEEN UPPER BODY KINEMATICS AND POWER PRODUCTION DURING BALLISTIC MEDICINE BALL THROWS  
Sayers, M. [Australia]  
08:15 OP-BN27-2  
ASSESSMENT OF FORCE-VELOCITY PROFILE IN ELITE FEMALE HANDBALL PLAYERS  
Petridis, L. et al [Hungary]  
08:30 OP-BN27-3  
MUSCLE COORDINATION PATTERNS WITH LEARNING THE POWER CLEAN  
Benko, K. et al [Japan]  
08:45 OP-BN27-4  
ASSOCIATION BETWEEN COUNTERMOTION JUMP-DERIVED MARKERS OF NEUROMUSCULAR STATUS AND STRENGTH GAIN WITH CONCURRENT TRAINING  
Fyfe, J. J. et al [Australia]  
09:00 OP-BN27-5  
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 pad 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
Pendids, 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
Clubs

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 female 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]
09:15 OP-BN29-6
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]

Club B
Performance measurement
Chair(s):
Lamberts, R. [South Africa]
Linnamo, V. [Finland]
08:00 OP-BM58-1
Training characteristics of highly-trained cross-country skiers throughout the transition from junior to senior level
Karlsson, Ø. et al [Sweden]
08:15 OP-BM58-2
The importance of pacing behavior for current and future performance in junior elite speed skating
Stoter, I.K. et al [Netherlands]
08:30 OP-BM58-3
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-BM58-4
Rifle carriage decreases speed at lactate threshold, anaerobic energy contribution and performance in biathlon skiing
Jonsson Kårström, M. et al [Sweden]
09:00 OP-BM58-5
A comparison between different estimates of anaerobic energy production during supermaximal roller-skiing employing the double poling and diagonal stride sub-techniques
Andersson, E.P. et al [Sweden]
09:15 OP-BM58-6
External compression trousers slightly improve systemic haemodynamics during cycling in endurance-trained and untrained males
Cofer, J.D. et al [New Zealand]

Club C
Endurance: Winter sports
Chair(s):
Patricia, D. [Canada]
08:00 OP-BM58-1
Investigation of cumulative sport related concussions on cognitive performance and hemodynamic response
Coenen, J. et al [Canada]
08:15 OP-BM58-2
Goalkeeper injuries in an elite football club: a different pattern compared to field players
Larruskain, J. et al [Spain]
08:30 OP-BM58-3
Asymmetry of the internal oblique in adolescents tennis players with femoroacetabular impingement: a volumetric MRI study
Kux, J. et al [Germany]
08:45 OP-BM58-4
The associations of rs1107946 polymorphism in the COL1A1 with fatigue-fracture and muscle injury in Japanese athletes
Miyamoto-Mikami, E. et al [Japan]
09:00 OP-BM58-5
Pre-season hip/orion strength and haagos scores are associated with prospective injury in professional football players
Bourne, M. et al [Australia]
09:15 OP-BM58-6
Injury epidemiology and impact of injuries in the hyundai a-league
Lu, D. et al [Australia]

Club D
Injury prevention III
Chair(s):
Injury prevention III
08:00 OP-BM58-1
Balsalobre-Fernández, C. [Spain]

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
Consume digital technologies for sports performance measurement
Balsalobre-Fernández, C. [Spain]

‘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?
Kaye, 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]
South Hall 1B
Training and testing: Endurance
Chair(s):
Gabrys, T. [Czech Republic]
Skorski, S. [Germany]
09:45 IS-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 IS-PM57-2 BREATH-VERSUS TIME-AVERAGING STRATEGIES FOR VO2MAX ASSESSMENT: MATHEMATICAL MODELING AND RELIABILITY
Martin-Rincón, M. et al [Spain]
10:15 IS-PM57-3 CAN THE SELF-PACED, CYCLE-BASED MAXIMAL OXYGEN UPTAKE TEST PRODUCE HIGHER VO2MAX VALUES THAN STANDARD GRADED EXERCISE TEST PROTOCOL?
Strahor, I. et al [Czech Republic]
10:30 IS-PM57-4 RELATIONSHIP BETWEEN RUNNING PERFORMANCE AND ENERGY METABOLIC CAPACITIES IN MIDDLE-DISTANCE RUNNERS
Mitsuoka, T. et al [Japan]
10:45 IS-PM57-5 PACING STRATEGY DETERMINANTS DURING A RUN LEG OF SIMULATED OLYMPIC-DISTANCE TRIATHLON: RELATIONSHIP BETWEEN PACING INDEX AND CLAS-SC 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-PM16 South Hall 2A
Running
Chair(s):
Placentini, M. [Italy]
Nicol, C. [France]
09:45 OP-PM16-1 ANALYSIS OF THE PHYSIOLOGICAL COMPETITION ZONES IN A MOUNTAIN MARATHON RACE REGARDING HEART RATE AND RACE SPEED, AND NUTRITIONAL APPLICATIONS
Ruíz de Aretxabala, X. et al [Spain]
10:00 OP-PM16-2 DOSE-RESPONSE EFFECTS OF WEIGHTED VEST RUNNING ON RUNNING ECONOMY
Kilding, A.E. et al [New Zealand]
10:15 OP-PM16-3 PHYSIOLOGICAL FACTORS RELATED TO UPHILL VS DOWNHILL RUNNING TIME-TRIAL PERFORMANCE
Lemire, M. et al [France]
10:30 OP-PM16-4 RUNNING ECONOMY AND HEART RATE ARE SIMILAR AT MATCHED RPE ON A TREADMILL AND OVERGROUND.
Buckley, J.D. et al [Australia]
10:45 OP-PM16-5 EFFECTS OF CARBOHYDRATE INTAKE DURING A 1-H HEAVY INTENSITY CYCLING EXERCISE ON SUBSEQUENT RUNNING ECONOMY – A SINGLE-BLIND 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 SPURT PERFORMANCE
Ermlids, 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-INDUCED OBESE RATS
Kim, K. et al [Korea, South]
10:45 OP-PM66-5 A REGULATION OF MUSCLE pH DURING A 50% MAXIMAL EXERCISE IN HUMANS: IMPACT OF LONG-TERM OMEGA-3 SUPPLEMENTATION
Van Loo, R. et al [Belgium]
Oral & Invited Presentations

OP-BN30

OP-BN30-3

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-BN30-4

CHARACTERISTICS OF KNEE VALGUS MOTION ARE DIFFERENT BETWEEN LANDING AND SIDESTEP CUTTING TASKS IN FEMALE SOCCER PLAYERS
Itlo, 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]

11:00

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 FIELDERS, BOWlers AND BATTERS IN A TEAM COMPETING IN THE 2018 INDIAN PREMIER LEAGUE SEASON
Christie, C.J. et al [South Africa]

10:45

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
Castella, 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 INDIAN STAFF INDIAN 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]

11:15

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 WITH BREAST CANCER AND HIGH DISEASE BURDEN – THE SAFE TRIAL
Sonder, 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
Duss, C. 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]

11:00
TAKING EXERCISE CAPACITY.
Wardenaar, F.C. et al [United States]
12:00 OP-PM61-3
THERMOREGULATION DURING STEADY-STATE WORK-MATCHED OR METABOLIC HEAT PRODUCTION MATCHED ECCENTRIC AND CONCENTRIC CYCLING
Burke, 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]
12:45 OP-PM62-5
EFFECTS OF DIFFERENT EXERCISE MODES ON THE PROTEIN EXPRESSION OF BMP-4/BMP-7 AND THERMOGENESIS RELATED PROTEINS IN ADIPOSE TISSUE OF OBSESE RATS
YAN, Y. [China]
OP-PM62
South Hall 1B
Molecular biology and biochemistry: Metabolomics - Proteomics
Chair(s):
Wessner, B. [Austria]
Rück, 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
Joannisse, D.R. et al [Canada]
12:00 OP-PM62-3
SIX-MONTH PHYSIOTHERAPY-EXERCISE INTERVENTION IN PATIENTS WITH OSTEOARTHRITIC KNEE JORDAN 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
GREAT RATING OF PERCEIVED EXHAUSTION DURING TRADITIONAL SETS THAN REST-REDESTINATION 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?
Crogna, 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 CAPILARY INTERPLAY FOR MUSCLE HYPERTROPHY
Parise, G. [Canada]
12:30 IS-BN07-3
DYNAMIC BONE MOVEMENTS DURING LOCOMOTION
Kleppe, 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 BALISTIC 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 ANGLE 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
Steingrube, 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 MODELING OF CHINESE ARTISTIC GYMNASTIC HANDSPRING VALUTING 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 HYSTEROPHONY 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 BRUSSRES IN THROWING TECHNIQUE OF JUDO – INFLUENCE OF UNEXPECTED CONDITION ON BACKWARD BREAKFAST – HAYASHI, H. et al [Japan]
12:15 OP-PM67-4 
VISUAL ANALOGUE SCALE AND BODY MASS INDEX MAY PLAY IMPORTANT ROLES FOR DEGENERATE WOMAN 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
Langerok, N. G. et al [South Africa]
15:15 - 16:30 PL-PS04
Terrace 2A
Health and fitness: Clinical populations II

Chair(s):
Phillips, B. [United Kingdom]
Bernsten, 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]
12:15 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]
12:30 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]
11:30 PL-PS04-1 
THE INTRINSIC MUSCLE CLOCK AND MUSCULO-SKELETAL HEALTH
Esser, K. [United States]
11:55 PL-PS04-2 
CIRCADIAN CONTROL OF DIURNAL PERFORMANCE PATTERN IN ATHLETES
Brandstaeften, R. [Austria]
Wednesday, July 3, 2019

12:45 - 13:45

**CP-PM01 MOLECULAR SIGNALING RESPONSE**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Relic, D. [Germany]
Apro, W. [Sweden]

CP-PM01-1 [YIA]

EFFECTS OF ORAL LACTATE ADMINISTRATION ON ENDURANCE TRAINING-INDUCED MITOCHONDRIAL ADAPTATIONS IN MICE
Tokahashi, 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 ATROPHY IN A MOUSE MODEL
Sakamoto, M. et al [Japan]

**CP-PM04 MUSCLE GROWTH: ADAPTATION**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Longo, S. [Italy]

CP-PM04-1 [YIA]

COMPARATIVE 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 ENDURANCE EXERCISE TRAINING IN HEALTHY YOUNG MALES
Fuchs, C.J. et al [Netherlands]

**CP-PM05 TRAINING AND TESTING**

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

Wievelthove, T. [Germany]
Colter, 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 [Australia]

CP-PM05-5

THE UTILITY OF A SELF-PACED SUBMAXIMAL RUNNING TEST TO MONITOR FATIGUE IN ULTRA-MARATHON 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]
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-PM06-2
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-MI01-7
The redistribution of total work during traditional sets and rest redistribution at different velocities
Malecek, J. et al [Czech Republic]

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 the bottom position of squat
Olive, V. et al [Slovakia]

CP-MI01-8
Exercise-induced energy expenditure during strength training: comparison between a machine-based and a bodyweight strength training program
Scherbauer, J. et al [Germany]

CP-MI01-9
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-PM06 BONE AND MUSCLE
Lecture Room: Forum Hall (CP Poster Area)
Chair(s):
Clipson, 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
Björnvinssdóttir, 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 musculofascial junction?
Huang, Y.H. et al [Taiwan]

CP-SH02 CHILDREN
Lecture Room: Forum Hall (CP Poster Area)
Chair(s):
Mamen, A. [Norway]
Solberg, C. et al [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 vocational intervention to improve health behaviour
Mc Cornell Davoise, C. et al [Germany]

CP-SH02-3
Are area-level crimes associated with older adults’ physical activity and sedentary behaviour?
Luo, Y. et al [Taiwan]

CP-SH02-4
Predicting retention and attendance behaviour of leisure centre 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 among 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. 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]
### Conventional Print Poster Presentations

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<td>Kunimasa, Y. et al</td>
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<td>Kharazi, M.R. et al</td>
<td>Germany</td>
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<td>CP-BN02-6</td>
<td>EFFECTS OF FASCICLE LENGTH FILTERING ON MUSCLE-TENDON BEHAVIOURAL PARAMETERS DURING CYCLING</td>
<td>Walker, J. et al</td>
<td>United Kingdom</td>
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<tr>
<td>CP-BN02-7</td>
<td>EFFECT OF WEIGHT LOAD ON MUSCLE-TENDON COMPLEX BEHAVIOR DURING SQUAT EXERCISE</td>
<td>Noro, H. et al</td>
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<td>CP-BN02-8</td>
<td>VISCOELASTIC PROPERTIES OF VASTUS LATERALIS MUSCLE-TENDON COMPLEX IN COLLEGIATE SPRINTERs</td>
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<tr>
<td>CP-BN02-9</td>
<td>RELATIONSHIP BETWEEN DECREASED STRETCH-SHORTENING CYCLE PERFORMANCE AFTER CYCLING AND STRETCH REFLEX OF TIBIALIS ANTERIOR MUSCLE</td>
<td>Takahashi, K. et al</td>
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<tr>
<td>CP-BN02-10</td>
<td>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</td>
<td>Datoussaid, M. et al</td>
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<td>CP-BN02-11</td>
<td>EFFECTS OF VITAMIN D SUPPLEMENTATION ON MUSCLE FUNCTION IN FEMALE COLLEGE VOLLEYBALL PLAYERS</td>
<td>Liu, Y.H. et al</td>
<td>Taiwan</td>
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<tr>
<td>CP-BN02-12</td>
<td>THE EFFECTS OF 32 WEEKS OF BETA-ALANINE SUPPLEMENTATION ON CROSSFIT-SPECIFIC PERFORMANCE, BODY COMPOSITION AND DIETARY HABITS IN CROSSFIT ATHLETES</td>
<td>Kusmáto, M. et al</td>
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<td>CP-BN02-13</td>
<td>CHRONIC 25-HESPERIDIN INTAKE IMPROVES POWER OUTPUT AT VO2MAX AND BODY COMPOSITION IN CYCLISTS</td>
<td>Martinez-Noguera, F.J. et al</td>
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<td>CP-BN02-14</td>
<td>MUSCLE SIZE-SCALED SHEAR ELASTIC MODULUS IS STRONGLY CORRELATED WITH MUSCLE FORCE DURING SUPERMAXIMAL ISOMETRIC CONTRACTION</td>
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<td>CP-BN02-15</td>
<td>ASSESSMENT OF ACHILLES TENDON LENGTH DURING WALKING AND RUNNING: A NEW IN VIVO APPROACH</td>
<td>Kharazi, M.R. et al</td>
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<td>CHANGES IN ECHO INTENSITY AND SHEAR ELASTIC MODULUS OF THE HAMSTRINGS WITH PASSIVE KNEE EXTENSION</td>
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<td>CP-BN02-17</td>
<td>EFFECTS OF FASCICLE LENGTH FILTERING ON MUSCLE-TENDON BEHAVIOURAL PARAMETERS DURING CYCLING</td>
<td>Walker, J. et al</td>
<td>United Kingdom</td>
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<td>CP-BN02-18</td>
<td>EFFECT OF WEIGHT LOAD ON MUSCLE-TENDON COMPLEX BEHAVIOR DURING SQUAT EXERCISE</td>
<td>Noro, H. et al</td>
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<td>CP-BN02-19</td>
<td>VISCOELASTIC PROPERTIES OF VASTUS LATERALIS MUSCLE-TENDON COMPLEX IN COLLEGIATE SPRINTERs</td>
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<td>VISCOELASTIC PROPERTIES OF VASTUS LATERALIS MUSCLE-TENDON COMPLEX IN COLLEGIATE SPRINTERs</td>
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<td>Japan</td>
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Wednesday, July 3, 2019

12:45 - 13:45

ECSS Prague 2019 - Czech Republic, 3-6 July

CP-BN03-8
EFFECT OF MUSCLE RELAXATION ON CORTI-COSPAL 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-BN06 SPORT TECHNOLOGY MIXED
LECTURE ROOM: FORUM HALL (CP POSTER AREA)
Chair(s):
Niehoff, J. [Germany]

CP-BN06-1
IMPACT OF DECREASE IN FATNESS ON CHANGES IN MENSTRUAL PATTERN IN JAPANESE COMPETITIVE ADOLESCENT RUNNERS
Uchijama, E. et al [Japan]
CP-BN06-2
THE COMBINED EFFECTS OF ACUTE EXERCISE AND FREQUENT BREAKS IN SITTING ON POST-PARADIAL METABOLISM IN OLDER ADULTS
Wheeler, M. [Australia]

CP-BN07 SPORTS PHYSIOTHERAPY I
LECTURE ROOM: FORUM HALL (CP POSTER AREA)
Chair(s):
Iwata, A. et al [Japan]

CP-BN07-1
POSTURAL STABILITY AND REGULATION BEFORE AND AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION – A TWO YEARS LONGITUDINAL 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
Aunger, J.A. et al [United Kingdom]

12:45 - 13:45

LECTURE ROOM: FORUM HALL (CP POSTER AREA)
Chair(s):
Giboin, L. [Germany]
Ringhofer, 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
Weth, 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 DOMINANCE 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 EXPRESS VRISUS USEFULNESS BENEFITS 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

CP-BN06-3
PRECISE AUTOMATED PASSING IN AMERICAN FOOTBALL
Hollaus, B. et al [Australia]
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
Nurayama, 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
Ikawa, A. et al [Japan]

CP-BN04-8
ASSOCIATION BETWEEN SEDENTARY BEHAVIOR AND FUNCTIONAL FITNESS IN MIDDLE-AGED AND OLDER COMMUNITY-DWELLERS: A PRELIMINARY STUDY
Wu, H.J. et al [Taiwan]
CP-BN03-6
PHYSICAL ACTIVITY, HEALTH PERCEPTION, BARRIERS TO EXERCISE IN ADULT NON-ATHLETES AND ATHLETES – INFLUENCE OF SPORT DURING YOUTH
Levk, D. et al [Germany]
CP-BN03-7
THE EFFECT OF ONE YEAR OF AEROBIC EXERCISE ON UROS AND LIPOPRACTINS IN OLDER ADULTS
Berglund, I. [Norway]

CP-BN04-2
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-BN04-3
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-BN04-4
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-BN04-5
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-BN04-6
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-BN04-7
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]
Conventional Print Poster Presentations

**CP-BN04-8**

THE EFFECT OF EMG BIOFEEDBACK ON THE ACTIVITY OF POSTURAL MUSCLES DURING STANDING IN THE ELDERLY: IMPLICATIONS FOR BALANCE TRAINING.

Dao Anh, 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-BN05-1**

BIOMECHANICS AND PERFORMANCE OF ADULTS AT THE BASEBALL PITCHING MECHANICS.

Takahashi, K et al [Japan]

**CP-BN05-2**

STEP VARIABLES BUILT FOR FAST SPRINT RUNNING: PHASE RELATIONSHIP BETWEEN JOINT MOVEMENTS TO MAINTAIN PRECISION OF PERFORMANCE.

Couppé, C [Denmark]

**CP-BN05-3**

APPROPRIATE HIP EXTENSION SIZES WITH SPRINT VELOCITY AND SPECIFIC ASSOCIATION OF INDIVIDUAL HIP FLEXOR MUSCLES WITH SPRINT VELOCITY.

Bui, J et al [Vietnam]

**CP-BN05-4**

THE EFFECT OF EARLY TRUNK ROTATION ON BASEBALL THROWING MECHANICS.

Johannsson, J et al [Luxembourg]

**CP-BN05-5**

INTERRELATIONSHIP BETWEEN JOINT MOVEMENTS TO MAINTAIN PRECISION OF PERFORMANCE IN BASEBALL THROWING.

Kimura, A et al [Japan]

**CP-BN05-6**

IDENTIFICATION OF RUNNING PATTERNS IN JUNIOR HIGH SCHOOL STUDENTS.

Yamagata, 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.

Yeh, H et al [Taiwan]

**CP-BN05-8**

MEDIAL LONGITUDINAL ARCH DEFORMATION DURING GAIT IN ELEMENTARY SCHOOL GIRLS.

Kuch, A et al [Japan]

**CP-BN05-9**

EFFICACY OF TRANSVERSE ARCH SUPPORT SHOE INSOLES IN COUNTERING PLANTAR FORCE.

Sato, Y et al [Japan]

**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.

Cobarkapa, D et al [United States]

**CP-BN08-3**

KNEE KINEMATICS DIFFERENCES IN DIFFERENT LANDING TASKS BETWEEN FEMALE BASKETBALL PLAYER AND NON-PLAYER.

Kiuchi, A 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?

Smet, M et al [Belgium]

**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.

Jankov, M 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-BN08-9**

THE ROLE OF BURPEES AS PUNISHMENT FOR A “MISSED OBSTACLE” DURING OBSTACLE COURSE RACING: A PILOT STUDY.

Monika, K et al [Czech Republic]

**CP-MI02-1**

TRAINING AND TESTING I.

Chair(s):

De Pauw, K [Belgium]

Dascombe, B [Australia]

**CP-MI02-2**

EXERCISE INTENSITY DURING EXERGAMING.

Luchner, R et al [Austria]

**CP-MI02-3**

IS THERE A PLACE FOR EXTERNAL SPORTS SPECIALISTS IN EXTRACURRICULAR SPORTS CLUB ACTIVITIES AT JAPANESE MIDDLE- AND HIGH-SCHOOL?

Shimizu, Y et al [Japan]

**CP-MI02-4**

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-MI02-5**

PREFERRED TEACHING STYLES OF PETE TEACHER CANDIDATES.

Wilkinson, C et al [United States]

**CP-SH01-1**

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**

IS THERE A PLACE FOR EXTERNAL SPORTS SPECIALISTS IN EXTRACURRICULAR SPORTS CLUB ACTIVITIES AT JAPANESE MIDDLE- AND HIGH-SCHOOL?

Shimizu, Y et al [Japan]

**CP-SH01-4**

EFFECT OF SPORTS INSTRUCTOR ON CHILDREN’S PHYSICAL ACTIVITY TIME IN NURSERY SCHOOL.

Muray, R et al [Japan]
Thursday, July 4, 2019

13:30 - 14:30

CP-SH05 PSYCHOLOGY / MOTIVATION

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chairs:
Johansen, B. [Norway]
Mammen, 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

NEEDS SATISFACTION TO MEXICAN ADOLESCENT-AGE ATHLETES’ INTENTIONS TO CONTINUE PARTICIPATION
Ramírez-Mejía, J.J. et al [Mexico]

CP-SH05-3

BOTH GENDER AND AGE MATTER? A QUALITATIVE COMPARISON OF MOTIVES AND ASPECTS OF RISKS IN ADOLESCENT AND ADULT FREERIDERS
Frohauer, A. et al [Austria]

CP-SH05-4

TEAM UNITY AS A PREDICTOR OF ATHLETE COMPETITIVE MOTIVATION
Ko, Y. [Japan]

CP-SH05-5

WHY DO FANS FOLLOW THE ATHLETES SOCIAL MEDIA (BRAND) PAGES?
Kajos, A. [Hungary]

CP-SH05-6

IMPACT AND EFFECTIVE ACHIEVEMENT MOTIVES OF YOUNG ATHLETES
Krisel, E. et al [Germany]

CP-MI09 TEAM SPORTS

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chairs:
Sayers, M. [Australia]
Diascombe, 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
Lehner, 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 PRE-PROFESSIONAL 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
Ohmura, 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
Aborghounejad, M. et al [Portugal]

CP-MI09-11

ENDURANCE

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chairs:
Etxebarria, 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
Homin, M.J. et al [New Zealand]

CP-MI12-3

BODY & BOAT: SIGNIFICANCE OF MORPHOLOGY ON ELITE ROWING PERFORMANCE
Delarochelambert, Q. [France]

CP-MI12-4

SOLDIERING TASKS’ PHYSIOLOGICAL DEMANDS IN A HIGHLY STRESSED OCCUPATIONAL GROUP
Sugimoto, T. [Japan]

CP-MI12-5

PRACTICAL SINGLE-CASE APPROACH TO MONITOR STRESS AND IMMUNITY DURING HIGH INTENSITY INTERVAL EXERCISES WITHIN THE PARKINSON CRITICAL HEART RATE TEST:
Barbieri, R.A. et al [Brazil]

CP-MI12-6

THE PARKINSON CRITICAL HEART RATE TEST: DOES AGE MATTER? A QUALITATIVE COMPARISON OF MOTIVES AND ASPECTS OF RISKS IN ADOLESCENT AND ADULT FREERIDERS
Frohauer, A. et al [Austria]

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 (WELFIT EMG) RELIABILITY VERIFICATION: COMPARING AMPLITUDE WITH TELEMOS DTS (MORAXON)
Kim, S. et al [Korea, South]

CP-MI12-9

LOCATION OPTIMISATION FOR IN-MAUS IN THE DESIGN OF MOTION TRACKING SOCCER TIGHTS BASED ON SOFT TISSUE ARTIFACT ANALYSIS
Ahsmann, L.L. et al [Netherlands]

CP-SH06 PSYCHOLOGICAL RESPONSES TO EXERCISE

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chairs:
Calogiuri, G. [Norway]
Prats-Puig, A. [Spain]

CP-SH06-1

EFFICACY 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 PROGRAMME IMPROVE THE PHYSICAL AND MENTAL HEALTH OF ADOLESCENT AND ADULT FREERIDERS
Takanashi, M. et al [Japan]

CP-SH06-4

A CROSS-SECTIONAL STUDY OF SOCIO-ECOLOGICALLY DISADVANTAGED OLDER ADULTS?
Takeda, N. et al [Japan]

CP-SH06-5

ASSESSMENT OF MOODS AND ANXIETY AMONG CHINESE COLLEGE STUDENTS: THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND MENTAL HEALTH
Ding, J. et al [China]

CP-SH06-6

ASSESSMENT OF MOODS AND ANXIETY AMONG CHINESE COLLEGE STUDENTS: THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND MENTAL HEALTH
Ding, J. et al [China]

CP-SH06-7

THE PHYSICAL ACTIVITY, STRESS, AND SEDENTARY BEHAVIOR IN GRADUATE STUDENTS: THE PASS PROGRAMME IMPROVE THE PHYSICAL AND MENTAL HEALTH OF ADOLESCENT AND ADULT FREERIDERS
Takanashi, M. et al [Japan]

CP-SH06-8

ASSESSMENT OF MOODS AND ANXIETY AMONG CHINESE COLLEGE STUDENTS: THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND MENTAL HEALTH
Ding, J. et al [China]

CP-SH06-9

ASSESSMENT OF MOODS AND ANXIETY AMONG CHINESE COLLEGE STUDENTS: THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND MENTAL HEALTH
Ding, J. et al [China]

CP-SH06-10

ASSESSMENT OF MOODS AND ANXIETY AMONG CHINESE COLLEGE STUDENTS: THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND MENTAL HEALTH
Ding, J. et al [China]
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Bischoff, L. et al [Germany]
CP-SH07-7
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):
Lecture:
WEIPPERT, M. [Germany]
BLANCUZAER, L. [Belgium]
CP-SH07-1
ARE SEDENTARY TIME AND PA ASSOCIATED WITH PERI-EPIDURAL PAIN? 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 PSYCHO-PHYSIOLOGICAL RESPONSES TO SELF-PACED RUNNING EXERCISE FOLLOWING PARTIAL SLEEP DEPRIVATION
Sousi, W. et al [France]
CP-SH07-6
EXERCISE DURING ISOLATION – DAILY VS. EVERY SECOND DAY EXERCISE PROTOCOLS AND THEIR NEUROPSYCHOPHYSIOLOGICAL EFFECTS
Abein, V. et al [Germany]
CP-SH07-7
EFFECTS OF ALTERATIONS IN VISUAL FLOW ON PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO EXERCISE
Anno, S. et al [Japan]
CP-SH07-8
THE IMPACT OF CAMERA STABILITY ON CYBER SICKNESS, PRESENCE AND PSYCHO-PHYSIOLOGICAL RESPONSES DURING A VIRTUAL WALK IN NATURE
Lilkesare, 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 CMRN1 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 DEHYDROEPRASTROSTERONE ADMINISTRATION INCREASE TESTICULAR SEX STEROID HORMONES AND ENHANCE REPRODUCTIVE FUNCTION IN OBSE 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
IRISH 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 SATELITE 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
THE 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 BRUNINGS-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
Chy, I. et al [Poland]
CP-SH08-5
ANALYSIS OF THE TECHNICAL INTERACTIONS OF A BASKETBALL TRAINING COACH: A CASE REPORT STUDY
Nieto Gussado, 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
Santer, A. et al [Australia]
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 WOMEN – 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
Garner, S. et al [France]
CP-PM11-3
CARDIORESPIRATORY FITNESS ASSOCIATIONS WITH METABOLIC RISK FACTORS IN A COHORT OF 18-YEAR OLD ESTONIANS
Maestu, E. et al [Estonia]
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CP-PM11-4
EFFECT OF EXERCISE ALONE ON HEPATIC STEATO-SIS: 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
Itô, 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 MALE JIU-JITSU ATHLETE
Haudum, J. [Austria]

CP-PM11-9
EFFECTS OF RAPID WEIGHT LOSS ON IMMUNE FUNCTION IN COLLEGE JUDO ATHLETES
Hirakata, 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 AGING PROCESS: A LARGE CROSS-SECTIONAL POPULATION STUDY (THE LIFELINES COHORT)
vande 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-Lofiga, C. et al. [Spain]

CP-MI15-3
STUDY ON THE BODY SHAPE, LOWER LUMB STRENGTH, FLEXIBILITY AND BALANCE ABILITY OF ELDERLY RESIDENTS IN BEIJING SUM, 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 INTERERENCE 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
Narot, 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
PEAK HEART RATE ANALYSIS IN AMATEUR SURFERS DEPENDING ON THE NUMBER OF MANEUVERS CARRIED OUT ON A WAVE.
Santilana, A. [Spain]

CP-MI03-2
DIFFERENCES IN SPLIT-TIMES AND STROKE COUNTS BETWEEN JUNIOR AND SENIOR KAYAKERS DURING CANOE SLALOM COMPETITION
Hirano, T. et al. [Japan]

CP-MI03-3
DIFFERENCES IN CHANGES OF PHYSICAL FITNESS AND ANTHROPOMETRICS OF FEMALE AND MALE RECRUITS DURING MILITARY SERVICE
Santisteban, A. [Spain]

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 GASTROCNEMIUS MUSCLE TENDON UNIT
Nakamura, M. et al. [Japan]

CP-MI03-7
REDI (ROBUST EXONENTIAL 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 RESPIRATORY SYSTEM DURING ACCLIMATIZATION TO MODERATE HYPOXIA.
Durand, F. et al. [France]

CP-PM07-2
EFFECTS OF BEEFROOT JUICE ON APPETITE, ACYLATED CHOLEST AND ENERGY INTAKE AT 4300M SIMULATED ALTITUDE
Matu, J. et al. [United Kingdom]

CP-PM07-3
HIGH ALTITUDE TRAINING CAMPS OF ELITE SWIMMERS - GENETIC, BIOCHEMICAL AND PHYSIOLOGICAL ASPECTS
Veselá, J. et al. [Czech Republic]

CP-PM07-4
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-PM07-5
EFFECTS OF HYPOXIA ON POWER OUTPUTS AND MUSCLE CYTOGENE UTILIZATION DURING REPEATED SPRINTS
Tokuya, 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
Uchimaru, J. et al. [Japan]

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**WITH CHRONIC ANKLE INSTABILITY**
Daira, M. et al [Japan]

**CP-PM16**
**ANALYSIS OF THE VITAMIN D-STATUS OF YOUNG ELITE TEAM SPORT ATHLETES – STUDY CONCENTRATED ON FIELD HOCKEY PLAYERS**
Breckel-Popoli, F. et al [Germany]

**CP-PM16**
**PHYSIOLOGICAL AND PERFORMANCE RESPONSES TO BASIC MILITARY TRAINING IN CONSCRIPTS WITH DIFFERENT VITAMIN D STATUS**
Oepk, V. et al [Estonia]

**CP-PM16**
**ASSESSMENT OF VITAMIN NUTRITIONAL STATUS IN JAPANESE FEMALE COLLEGIATE ATHLETES**
Nagassawa, T. et al [Japan]

**CP-PM16**
**DOES VITAMIN D SUPPLEMENTATION ENTAIL A 2X2 FIBERTYPE SHIFT?**
Nggaard, H. [Norway]

**CP-PM16**
**ASSOCIATION BETWEEN POLYMORPHISMS IN VITAMIN D PATHWAY-RELATED GENES, VITAMIN D STATUS, MUSCLE MASS AND FUNCTION; A SYSTEMATIC REVIEW**
Krajiwi, E. et al [Australia]

**CP-PM16**
**AN ANTI-OBESEITY EFFECT OF JULOCOXIB IN SUPPLEMENTATION AND LOW INTENSITY/ VOLUME EXERCISE IN DIET-INDUCED OBSESE MICE.**
Yoshikawa, M. et al [Japan]

**CP-PM16**
**DIETARY CARNOISINE INTAKE IMPROVES OUTCOMES IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS**
Spioas, J. et al [Belgium]

**CP-PM16**
**A COMPARISON OF THE EFFECTS OF THREE TYPES OF COMMERCIAL BOTTLED TEA BEVERAGES ON E XHAUSTIVE EXERCISE-INDUCED FATIGUE IN ACTIVE MEN**
Lin, H.Y. et al [Taiwan]

**CP-PM19**
**SUPPLEMENTATION WITH PEQUI OIL DOES NOT INDUCE BLOOD PRESSURE REDUCTION IN NON-MOTIVESIVE MEN AFTER STRENGTH TRAINING**
Dutra, M. et al [Brazil]

**CP-PM19**
**ERGOGENIC AIDS / OTHER SUPPLEMENTS**

**Lecture Room: Forum Hall [CP Poster Area]**

**Chair(s):**

**Gibson, L. [Germany]**

**Andersen, J. [United States]**

**CP-BN09-1**
**EFFECT OF RHYTHMIC LOW LUMB MOVEMENTS ON THE PERFORMANCE OF MULTI-LUMB 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 IMMERSEIVE 3D-VR TRAINING SYSTEM FOR ENHANCING SPORTS VISION IN SPIKE RECEIVE - THE EFFECT VERIFICATION OF THE THERAPEUTIC EFFECTS OF IRON SUPPLEMENTATION WITH PEQUI OIL DOES NOT INDUCE BLOOD PRESSURE REDUCTION IN NON-MOTIVESIVE MEN AFTER STRENGTH TRAINING**
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**
Jiang, J.S. et al [Korea, South]

**CP-BN09-5**
**EFFECT OF AGE AS A MODULATOR OF PHYSICAL EXERCISE EFFECTS ON LEARNING A PERCEPTUAL-MOTOR TASK**
Ferrer-Uris, B. et al [Spain]

**CP-BN09-9**
**BILATERAL CHARACTERISTICS IN STRAIN OF ILEITIBAL BAND AND LOWER EXTREMITIES ALIGNMENT IN MIDDLE-DISTANCE RUNNERS**
Kim, D. et al [Japan]

**CP-BN20**
**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 HYPERVENTIVE RATS**
Maurige, P. et al [Canada]

**CP-PM20-2**
**THE ASOCIATION OF ACTN3 R577X POLYMORPHISM WITH ELITE JAPANESE ATHLETE STATUS BY VARIOUS SPORT EVENTS**
Akiyama, N. et al [Japan]

**CP-PM20-3**
**EFFECTS OF COMBINED TRAINING ON THE EXPRESSION OF GENES RELATED TO BROWNING AND AUTOPAGHAI IN SUBCUTANEOUS ADIPOSE TISSUE OF INDIVIDUALS WITH OVERWEIGHT AND TYPE 2 DIABETICS**

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Bonfante, I.P. et al [Brazil]
CP-PW20-4
IMPACT OF PARTICIPATING TO A 330 KM LONG ULTRA-TRAIL VERSUS A 67 KM SHORT ULTRA-TRAIL ON MUSCULAR AND CARDIAC GENETIC REGULATION BY MICRONRAS.
Le Goff, C. et al [Belgium]
CP-PW20-5
EVALUATION OF EXERCISE-INDUCED MUSCLE DAMAGE USING URINARY TRITIUM N-TERMINAL FRAGMENT AT REPEATED BOUT EFFECT.
Yamaguchi, S. et al [Japan]
CP-PW20-6
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-PW20-7
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]
Couppe, C. [Denmark]

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 HANDHELD 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 KETTLEBELLS EXERCISE ON THE MUSCLE OF LOWER LIMB AND WALKING FUNCTION OF ELDERLY WOMEN.
Giu 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 OR- THOSTATIC HYPOSTENSION.
Kim, N. [Korea, South]

CP-PM08-9
THE EFFECTS OF UNSTABLE SLOPE TREADMILL WALKING ON PHYSIOLOGICAL RESPONSES DURING UNSTABLE 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 CREACTIVE 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, PAIN AND FORWARD HEAD POSTURE AMONG OFFICE WORKERS.
Ten, J. et al [Brazil]

CP-PM12-4
PREVALENCE OF CHRONIC ANKLE INSTABILITY AND HISTORY OF ANKLE SPRAIN IN MALE AND FEMALE COLLEGIATE ATHLETES.
Koumura, T. et al [Japan]

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-PM21 CARDIOVASCULAR ATHLETES
LECTURE ROOM: FORUM HALL (CP POSTER AREA)
Chair(s):
Crisafulli, A. [Italy]

CP-PM21-1
THE EFFECT OF AGE, TRAINING STATUS, GENDER AND HISTORY OF ANKLE SPRAIN IN MALE AND FEMALE COLLEGIATE ATHLETES.
Koumura, T. et al [Japan]

CP-PM21-2
RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND MUSCULOSKELETAL DISORDERS, PAIN AND FORWARD HEAD POSTURE AMONG OFFICE WORKERS.
Depreli, O. et al [Cyprus]

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 COMPARISON 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.
Iimura, Y. et al [Japan]

ECSS Prague 2019 - Czech Republic, 3-6 July
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 TROWING 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
Chudy, J. et al (Slovakia)

CP-MI10-5
POWER - MASS CURVE PARAMETERS IN DEEP SQUAT: ACCELERATION VS. CONCENTRIC PHASE OF MOTION
Buzišć, 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-MH09 Morality and Character Development

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

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

CP-MH09-1
ATTITUDES TOWARDS OPPONENTS IN SPORTS
Grushko, A. et al (Russia)

CP-MH09-2
CHARACTERISTICS OF HARASSMENT BY COACHES IN JUNIOR HIGH SCHOOL, HIGH SCHOOL, AND UNIVERSITY IN THE JAPANESE SPORTS SETTINGS
Horimoto, N. et al (Japan)

CP-MH09-3
EXPLORING THE TEACHING STRATEGIES FOR TEACHING FILED GAMES FROM THE PERSPECTIVE OF CREATIVITY & CHARACTER EDUCATION
Shin, K. [Korea, South]

CP-MH09-4
IT’S HARDER TO PUSH WHEN I HAVE TO PUSH HARD! THE LEVEL OF CONCURRENT PHYSICAL EXERTION AFFECTS DECISION-MAKING ON HYPOTHETICAL MORAL DILEMMAS
Weipert, M. et al (Germany)

CP-MH09-5
OTHER DOPING CONTROLS: ONE PROCEDURE VISION TO REVISION
Mirabet-Aguilera, R. et al (Spain)

CP-MH09-6
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-MH09-7
LIFELONG LEARNING: TO THE CORE OF DEVELOPMENT BETWEEN SPOR AND CULTURE OF SAFETY
Joffroy, S. et al (France)

CP-MH09-8
OCCUPATIONAL HEALTH AND SAFETY AWARENESS IN ELITE RUGBY
Chen, Y. et al (Ireland)

CP-MH09-9
GOOD REFEREEES ARE NOT NICE. PERSONALITY EFFECTS ON FOOTBALL REFEREE DECISION-MAKING
Gröde, A. et al (Germany)

CP-MH10 TEAM FUNCTIONING AND LEADERSHIP

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):
Bjørndal, C. [Norway]

CP-MH10-1
COACHES’ LEADERSHIP PROFILE IN TRADITIONAL ROWING: TRAINERAS
León Guereno, P. [Spain]

CP-MH10-2
PERCEIVED COACH LEADERSHIP STYLE AND PSYCHOLOGICAL WELL-BEING AMONG SOUTH AFRICAN NATIONAL MALE WHEELCHAIR BASKETBALL PLAYERS.
Joo, J. [South Africa]

CP-MH10-3
IMPLEMENTING A SHARED LEADERSHIP PROTOCOL IN INDIVIDUAL SPORTS: AN INTERVENTION STUDY MEASURING THE EFFECTIVENESS OF SHARED LEADERSHIP IN ATHLETICS GROUPS
Bultheel, M. et al (Belgium)

CP-MH10-4
A NETWORK APPROACH TO UNDERSTANDING TEAM WORK IN AUSTRALIAN FOOTBALL
Young, C. [Australia]

CP-MH10-5
CONFLICTS OF TEAM BUILDING IN THE SPORTS ENVIRONMENT
Németh, Zs. [Hungary]

CP-MH10-6
MEASURING ROLE PERCEPTION IN TEAM SPORTS: THE VALIDATION OF THE CHINESE VERSION OF ROLE AMBIGUITY SCALE (RAS)
Ho, W.J. et al (Taiwan)

CP-MH10-7
PSYTOOL: SPORT PSYCHOLOGY AS A THEORETICAL FRAME TO PROMOTE A POSITIVE ATTITUDE IN GRASSROOT SPORTS
Sáez de Villarreal, E. et al (Spain)

CP-MH13 SWIMMING

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):
Gonjo, T. [Norway]

CP-MH13-1
ANALYSIS OF THE INFLUENCING FACTORS OF LEG EXTENSION DURING THE WALKOUT MOVEMENT IN ARTISTIC SWIMMING
Kaho, M. [Japan]

CP-MH13-2
THE SESSION RPE BREAKPOINT CORRESPONDING TO INTENSITY THRESHOLDS IN OPEN WATER SWIMMERS
Ieno, C. et al (Italy)

CP-MH13-3
SLEEPING HIS WAY TO AN ASIAN GAMES MEDAL
Tam, A. [Singapore]

CP-MH13-4
COMPARISON OF SWIMMING START IN 100 M EVENTS AMONG GENERATIONS OF JAPANESE COMPETITIVE SWIMMERS
Suito, H. et al (Japan)

CP-MH13-5
THE EFFECT OF DIFFERENCE ACTIVE RECOVERY PROTOCOLS ON BLOOD LACTATE CLEARANCE IN YOUNG SWIMMERS
Chaitopradeep, N. [Thailand]

CP-MH13-6
THE EFFECT OF 6-WEEK INSPIRATORY MUSCLE TRAINING ON DIAPHRAGM AND ACCESSORY RESPIRATORY MUSCLE FUNCTIONS IN ELITE SWIMMERS
Ando, R. et al (Japan)

CP-MH13-7
DIFFERENCES OF INTER-LIMB COORDINATION BETWEEN SYNCHRONIZED SWIMMERS AND NON-SYNCHRONIZED SWIMMERS: A PILOT STUDY
Vathagavorakul, R. et al (Japan)

CP-MH13-8
COMPETITIONS OF TEAM BUILDING IN THE SPORTS ENVIRONMENT
Németh, Zs. [Hungary]
SELF-TALK, AUDITORY DISTRACTION, AND PERFORMANCE ACCURACY IN BASKETBALL FREE THROW SHOOTING
Warren Friedrich, K. et al [Denmark]

CAN YOU REACH IT? THE INFLUENCE OF TENNIS EXPERIENCE ON PERIPERSONAL SPACE
Zavadsko, A. et al [Germany]

EFFECT OF MICROGRAVITY ON BEHAVIORAL AND NEURAL PERFORMANCE
Wollseiffen, P. [Germany]

THE EFFECT OF COMBINED COGNITIVE AND EXERCISE TRAINING ON WORKING MEMORY PERFORMANCE AND BRAIN SIGNAL COMPLEXITY
Guo, G.W. et al [Taiwan]

EFFECTS OF ACUTE AEROBIC EXERCISE ON DELAYED FREE-RECALL PERFORMANCE
Kamijo, K. et al [Japan]

INFLUENCE OF EXPERTISE AND GAME TIME ON FOOTBALL REFEREE DECISIONS
Graefe, A. et al [Germany]

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

TRAINING AND POSTURE LEARNING
Kudo, S. et al [Japan]

PREVALENT OF LUMBAR DISC DEGENERATION IN COLLEGIATE RUNNERS
Kubo, Y. et al [Japan]

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]

REVIEW OF SCAPULAR MOVEMENT DISORDERS AMONG ADULTS WITH FORWARD HEAD POSTURE
Angin, E. et al [Cyprus]

THE EFFECTS OF COMPETITION LEVEL ON THE PREVALENCE OF LUMBAR DISC DEGENERATION IN GYMNASTS
Koyama, K. et al [Japan]

PREVALENT OF CHRONIC ANKLE INSTABILITY IN COLLEGIATE ATHLETES: THE INTERNATIONAL ANKLE CONSORTIUM DIAGNOSED CRITERIA
Udompanich, N. et al [Thailand]

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
Chun-Hao, L. [Taiwan]

ACUTE EFFECTS OF SELF-MYOFASCIAL RELEASE WITH FOAM ROLLING ON FLEXIBILITY, ARTERIAL STIFFNESS AND AUTONOMIC NERVOUS SYSTEM FUNCTION IN WOMEN
Lee, C. [Korea, South]

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

EFFECT OF MICROGRAVITY ON THE RELATIONSHIP BETWEEN DEVELOPMENTAL COORDINATION DISORDER AND INTERNALIZING PROBLEMS IN GRADE 3 CHILDREN
U, Y.C. et al [Taiwan]

THE EFFECT OF ENVIRONMENTAL CONDITIONS ON DECISION MAKING OF FOOTBALL REFEREES'
Scot, C. et al [United Kingdom]

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

FINGER AND BALL MOVEMENT AT RELEASE IN FOOTBALL: USING TRACKING DATA TO COMBINE TACTICAL AND PHYSIOLOGICAL ANALYSIS
Kusafuka, A. [Japan]

THE ESTIMATION OF CALORIC CONSUMPTION ON A NEW ELLIPTICAL MACHINE
Fedele, G. et al [Italy]

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

INTERVENTION FOR PEOPLE LIVING WITH HIV
Oeschger, R. et al [Switzerland]

THE RELATION BETWEEN PERCEPTUAL-COGNITIVE PHYSICAL ACTIVITY SYSTEMS USING TRI-AXIAL ACCELEROMETER
Nambo, H. [Japan]

DEVELOPMENT OF A MACHINE LEARNING METHOD TO EVALUATE KARATE SKILLS FROM INERTIAL SENSOR DATA
Shimpei, A. et al [Japan]

A MOBILE APPLICATION FOR HOME-BASED EXERCISE INTERVENTION FOR PEOPLE LIVING WITH HIV
Peleoni, M. et al [Italy]

VALIDITY AND RELIABILITY OF A SMARTPHONE APP VOICE RECOGNITION PHYSICAL ACTIVITY SYSTEMS USING TRI-AXIAL ACCELEROMETER
Lee, C. et al [Korea, South]

KOMAR, J. et al [France]

PERFORMANCE ANALYSIS IN PROFESSIONAL ICE HOCKEY: USING TRACKING DATA TO COMBINE TACTICAL AND PHYSIOLOGICAL ANALYSIS
Kovar, J. et al [France]

FINDER AND BALL MOVEMENT AT RELEASE IN RELATION TO ACCURACY IN BASEBALL PITCHING
Kusakabe, A. [Japan]

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Moussavi, S.H. et al [Netherlands]

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Longo, S. et al [Italy]

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Kupers, B.A.M. et al [Netherlands]

SENSOR-BASED OBJECTIVE MEASUREMENT OF PHYSICAL ACTIVITY IN SWISS ARMED FORCES
Oeschger, R. et al [Switzerland]

THE ESTIMATION OF CALORIC CONSUMPTION ON A NEW ELLIPTICAL MACHINE
Fedele, G. et al [Italy]

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

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THE ESTIMATION OF CALORIC CONSUMPTION ON A NEW ELLIPTICAL MACHINE
Fedele, G. et al [Italy]

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INTERVENTION FOR PEOPLE LIVING WITH HIV
Oeschger, R. et al [Switzerland]

THE RELATION BETWEEN PERCEPTUAL-COGNITIVE PHYSICAL ACTIVITY SYSTEMS USING TRI-AXIAL ACCELEROMETER
Nambo, H. [Japan]

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Shimpei, A. et al [Japan]

A MOBILE APPLICATION FOR HOME-BASED EXERCISE INTERVENTION FOR PEOPLE LIVING WITH HIV
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Lee, C. et al [Korea, South]

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Moussavi, S.H. et al [Netherlands]

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Longo, S. et al [Italy]
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ANALYSIS OF FACTORS INFLUENCING THE HEIGHT OF THRUST MOVEMENT IN ARTISTIC SWIMMING
Muro, O. [Japan]
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THE INFLUENCE OF SKI WIDTH ON PERCEPTUAL CHARACTERISTICS DURING TRAINING IN YOUNG ALPINE SKIERS
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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
Okuda, T. 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
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Hyunshik, K. [Japan]
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Cazorla-González, J. et al [Spain]
CP-PM17-5
STRUCTURED ACTIVE PLAY PROGRAM FOR PRESCHOOLERS, STRENGTHENS BALANCE ABILITY
Sato, K. et al [Japan]
CP-PM17-6
IMPACT OF LONGITUDINAL CHANGES IN MENTAL PATTERN AND BODY COMPOSITION ON BONE MINERAL ACCRUAL IN JAPANESE COMPETITIVE GIRL RUNNERS
Kinoshi, 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]
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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 CUP 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 OF THE SHOTS AND GOALS IN AFC FLUTSAL CHAMPIONSHIP 2018
Chen, Y.C. et al [Taiwan]
CP-PM18-6
COMPARISON OF FIELD PERFORMANCE METRICS BETWEEN COLLEGIATE DIVISION II WOMEN'S FOOTBALL AND FIFA WOMEN'S WORLD CUP FOOTBALL
Andersen, J.C. et al [United States]
CP-PM18-7
MODELING SOCCER PLAYERS’ TACTICAL EFFICIENCY LEVELS
Bogatin, R. et al [Portugal]
CP-PM18-8
MATCH OUTCOME AND TECHNICAL-TACTICAL PERFORMANCE OF THE PRESENT ASIAN SOCCER-EVENTS FROM 2019 AFC ASIAN CUP
Gong, B.N. et al [Spain]

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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
Mazar-Różycka, J. et al [Poland]
CP-MI07-2
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Liu, J.J. et al [China]
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RESPIRATORY TRAINING MODIFIES THE BREATHING PATTERN TOWARD A MORE EFFICIENT ONE DURING MAXIMAL INCREMENTAL EXERCISE
Baliero, F. et al [Italy]
CP-MI07-4
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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
Moriyama, 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
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Hendker, A. et al [Germany]
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Keller, J. et al [United States]

CP-BN10 SPORTS PHYSIOTHERAPY I
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Chair(s):
Behrens, M. [Germany]
Kux, J. [Germany]
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EFFECTS OF THE DIRECTION OF CROSS TAPING OF THE MIDDLE SCALNE MUSCLE ON MUSCLE TONE AND STIFFNESS
Choi, H.S. et al [Korea, South]
CP-BN10-2
EFFECT OF KINESIO TAPE® 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 GASTROCEPHALUS MUSCLE EXERTION AND FLEXIBILITY  
Kaneda, H. et al [Japan]

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EFFECTS OF KINESIOLOGY TAPING OF THE SHOULDER ON DYNAMIC BALANCE IN BASEBALL ATHLETES WITH MUSCLE FATIGUE  
ImRak, C. et al [Korea, South]

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EFFECTS OF A 4-WEEKS PROPRIOCEPTIVE TRAINING BY USING PEDALO ON BALANCE DURING WIND-UP AND STRIDE POSITIONS IN PROFESSIONAL BASEBALL ATHLETES.  
Kang, H.S. et al [Korea, South]

CP-PM22-4  
AMOUNT, SOURCE AND PATTERN OF DIETARY 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-PM22-5  
THE IMPACT OF PRE-EXERCISE CARBOHYDRATE SUPPLEMENTATION WITH HIGH-CONCENTRATIONS DRINKS ON ENERGY METABOLISM AND EXERCISE INTENSITY IN FEMALE COLLEGIATE ATHLETES  
Kimoto, R. et al [Japan]

CP-PM22-6  
ACUTE EFFECT OF NUTRITION INTAKE BEFORE OR AFTER RESISTANCE EXERCISE ON MUSCLE BREAKDOWN IN THE MIGHTY YOUNG MEN  
Kume, W. et al [Japan]

CP-PM22-7  
THE EFFECTS OF COWS MILK, GOATS MILK, WHEY PROTEIN AND AN ENERGY-MATCHED CARBOHYDRATE DRINK ON RECOVERY FROM REPEATED SPRINGING AND JUMPING IN TEAM SPORT ATHLETES  
Cussinot, M. et al [Ireland]

CP-PM22-8  
THE EFFECTS OF CYSTINE AND GLUTAMINE SUPPLEMENTATION ON CARBOHYDRATES CONCENTRATION AND CAPILLARY VELOCITY IN EARLY-STAGE BREAST CANCER PATIENTS: PROSPECTIVE TRIAL ON NUTRITIONAL INTERVENTIONS INTEREST AND PREFERENCES IN CANCER PATIENTS  
Avancini, A. et al [Italy]

CP-PM22-9  
THE INFLUENCE OF SHORT-TERM STOP-RECOVERY IN EARLY-STAGE BREAST CANCER PATIENTS: NO EFFECT ON MRNA EXPRESSION OF PROTEINS COMBINATION WITH ENDURANCE EXERCISE – A CROSS-SECTIONAL STUDY  
Valiulin, D. et al [Estonia]

CP-PM22-10  
PREDICTING AEROBIC ENDURANCE PERFORMANCE – SAVE TIME AND BLOOD!  
Johansen, J. et al [Norway]

CP-PM22-11  
THE USEFULNESS OF ACTIVITY TRACKERS AND HEART RATE MONITORS IN LIFESTYLE MEDICINE – A CASE STUDY  
Dvorak, M. et al [Hungary]

CP-PM22-12  
THE EFFECTS OF OMEGA-3 FATTY ACIDS SUPPLEMENTATION ON AIRWAY INFLAMMATION IN AMERICAN UNIVERSITY FOOTBALL ATHLETES  
Westergren, T. [Norway]

CP-PM22-13  
THE EFFECT OF ENDURANCE VERSUS RESISTANCE TRAINING ON SYSTEMIC AND LOCAL MUSCLE INFLAMMATION AND OXIDATIVE STRESS IN COPD PATIENTS  
Ryrsø, C.K. et al [Denmark]

CP-PM22-14  
THE EFFECT OF CARBOHYDRATE INGESTION AFTER EXHAUSTIVE ENDURANCE PERFORMANCE  
Meadows, S. et al [United Kingdom]

CP-PM22-15  
THE EFFECTS OF OMEGA-3 FATTY ACIDS SUPPLEMENTATION ON AIRWAY INFLAMMATION IN AMERICAN UNIVERSITY FOOTBALL ATHLETES  
Meadows, S. et al [United Kingdom]

CP-PM22-16  
THE EFFECT OF PROPORTIONALTRAINING OF THE MUSCLE SYSTEM – SAVE TIME AND BLOOD!  
Westergren, T. et al [Norway]

CP-PM22-17  
THE EFFECTS OF THE INFLUENCE OF DIFFERENT AMOUNT OF CARBOHYDRATE INTAKE AFTER EXHAUSTION EXERCISE ON POSTPRANDIAL LIPIDEMIA  
Yang, T.J. et al [Taiwan]

CP-PM22-18  
DIFFERENCE IN VENTILATION AND CYCLING ECONOMY IN TWO SITTING POSITIONS ON A BIKE  
Kvidaland, H. et al [Norway]

CP-PM22-19  
THE EFFECTS OF COLD WATER IMMERSION RECOVERY STRATEGY ON PHYSIOLOGICAL INDEXES AFTER HIGH-INTENSITY INTERMITTENT EXERCISE  
Wu, C. et al [Taiwan]

CP-PM22-20  
THE EFFECT OF ENDURANCE VERSUS RESISTANCE TRAINING ON SYSTEMIC AND LOCAL MUSCLE INFLAMMATION AND OXIDATIVE STRESS IN COPD PATIENTS  
Ryrsø, C.K. et al [Denmark]

CP-PM22-21  
THE EFFECTS OF PROPORTIONAL TRAINING OF THE MUSCLE SYSTEM – SAVE TIME AND BLOOD!  
Westergren, T. et al [Norway]

CP-PM22-22  
THE EFFECTS OF COLD WATER IMMERSION RECOVERY STRATEGY ON PHYSIOLOGICAL INDEXES AFTER HIGH-INTENSITY INTERMITTENT EXERCISE  
Wu, C. et al [Taiwan]

CP-PM22-23  
THE EFFECTS OF TISSUE FLOSSING ON GASTROCEPHALUS MUSCLE EXERTION AND FLEXIBILITY  
Kaneda, H. et al [Japan]

CP-PM22-24  
THE EFFECTS OF A 4-WEEKS PROPRIOCEPTIVE TRAINING BY USING PEDALO ON BALANCE DURING WIND-UP AND STRIDE POSITIONS IN PROFESSIONAL BASEBALL ATHLETES.  
Kang, H.S. et al [Korea, South]

CP-PM22-25  
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-PM22-26  
THE EFFECTS OF COWS MILK, GOATS MILK, WHEY PROTEIN AND AN ENERGY-MATCHED CARBOHYDRATE DRINK ON RECOVERY FROM REPEATED SPRINGING AND JUMPING IN TEAM SPORT ATHLETES  
Cussinot, M. et al [Ireland]

CP-PM22-27  
THE EFFECTS OF THE INFLUENCE OF DIFFERENT AMOUNT OF CARBOHYDRATE INTAKE AFTER EXHAUSTION EXERCISE ON POSTPRANDIAL LIPIDEMIA  
Yang, T.J. et al [Taiwan]

CP-PM22-28  
THE EFFECTS OF PROPRIOCEPTION TRAINING OF THE MUSCLE SYSTEM – SAVE TIME AND BLOOD!  
Westergren, T. et al [Norway]

CP-PM22-29  
THE EFFECTS OF THE INFLUENCE OF DIFFERENT AMOUNT OF CARBOHYDRATE INTAKE AFTER EXHAUSTION EXERCISE ON POSTPRANDIAL LIPIDEMIA  
Yang, T.J. et al [Taiwan]

CP-PM22-30  
THE EFFECTS OF COLD WATER IMMERSION RECOVERY STRATEGY ON PHYSIOLOGICAL INDEXES AFTER HIGH-INTENSITY INTERMITTENT EXERCISE  
Wu, C. et al [Taiwan]

CP-PM22-31  
THE EFFECTS OF TISSUE FLOSSING ON GASTROCEPHALUS MUSCLE EXERTION AND FLEXIBILITY  
Kaneda, H. et al [Japan]

CP-PM22-32  
THE EFFECTS OF A 4-WEEKS PROPRIOCEPTIVE TRAINING BY USING PEDALO ON BALANCE DURING WIND-UP AND STRIDE POSITIONS IN PROFESSIONAL BASEBALL ATHLETES.  
Kang, H.S. et al [Korea, South]

CP-PM22-33  
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-PM22-34  
THE EFFECTS OF COWS MILK, GOATS MILK, WHEY PROTEIN AND AN ENERGY-MATCHED CARBOHYDRATE DRINK ON RECOVERY FROM REPEATED SPRINGING AND JUMPING IN TEAM SPORT ATHLETES  
Cussinot, M. et al [Ireland]

CP-PM22-35  
THE EFFECTS OF THE INFLUENCE OF DIFFERENT AMOUNT OF CARBOHYDRATE INTAKE AFTER EXHAUSTION EXERCISE ON POSTPRANDIAL LIPIDEMIA  
Yang, T.J. et al [Taiwan]

CP-PM22-36  
THE EFFECTS OF PROPRIOCEPTION TRAINING OF THE MUSCLE SYSTEM – SAVE TIME AND BLOOD!  
Westergren, T. et al [Norway]
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CP-PM25-2
SHEAR STRESS ON CUTANEOUS CAPILLARY ENDOTHELIUM 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-UPTAKE 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 PERTUSION
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
Theurut, 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 PRE-PARTURIENT FEMALE HANDBALL PLAYERS
Cseko, A. et al [Hungary]

CP-PM27-3
INFLUENCE OF VENTILATORY THRESHOLD INTENSITY TRAINING ON BLOOD 2-ARACHIDONOYL-LYCEROL 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 CHOOSING UNDER PRESSURE IN JUNIOR GOLFER
Narktawon, 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 NESFATIN-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):
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 ARTHROCHONDIAL FUNCTION IN AN ANIMAL MODEL OF NON-ALCOHOLIC FATTY LIVER DISEASE
Stevanic, J. et al [Portugal]

CP-PM28-3
THE ASSOCIATION BETWEEN GRP 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 WITH DIFFERENT PERFORMANCE TESTS IN PROFESSIONAL BASKETBALL PLAYERS: PILOT STUDY
Yigit, B. et al [Turkey]

CP-PM28-6
THE IMMEDIATE EFFECTS OF KINESIO TAPING ON STATE ANXIETY, AND CHOKE IN FLIGHT UNDER PRESSURE IN JUNIOR GOLFER.
Teo, J.H.C. et al [Singapore]

CP-PM25-10
THE EFFECT OF LOWER-BODY NEGATIVE PRESSURE THERAPY ON THE FUNCTIONAL STATE OF EXCELLENT ROWERS
Binhong, G. et al [China]

CP-PM26 EVALUATION OF DIET QUALITY; NUTRITION KNOWLEDGE
LECTURE ROOM: FORUM HALL (CP POSTER AREA)
Chair(s):
Wardenaar, F. [United States]

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
Kato, E. et al [Japan]

CP-PM26-3
DEVELOPMENT OF THE ATHLETE DIET INDEX: A NEW DIETARY ASSESSMENT TOOL FOR ATHLETES
Capung, 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]
CP-MI17-1
THE EFFECTS OF ENHANCED ABDOMINAL CORE ACTIVATION ON QUADRIPEPS MUSCLE TORQUE TIME TO PEAK AND MUSCLE ACTIVATION AT DIFFERENT KNEE FLEXION ANGLES YILLI, S. et al [Turkey]
CP-MI17-2
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-MI17-3
A COMPARATIVE ANALYSIS OF SERVE CHARACTERISTICS IN ELITE JUNIOR TENNIS SINGLES AND DOUBLES Volk, N. R. et al [Germany]
CP-MI17-4
THE ALCHEMY OF DYNAMIC STRETCHING AND VIBRATION ROLLING DURING WARM-UPS ON SPORTS PERFORMANCE IN BADMINTON ATHLETES Lin, W. et al [Taiwan]
CP-MI17-5
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-MI17-6
A COMPARATIVE ANALYSIS OF SERVE CHARACTERISTICS IN ELITE JUNIOR TENNIS SINGLES AND DOUBLES Volk, N. R. et al [Germany]
CP-MI17-7
THE ALCHEMY OF DYNAMIC STRETCHING AND VIBRATION ROLLING DURING WARM-UPS ON SPORTS PERFORMANCE IN BADMINTON ATHLETES Lin, W. et al [Taiwan]
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]
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**CP-M108-8**
**EFFECTS OF ECCENTRIC EXERCISE ON TRAPEZIUS MUSCLE BIOMECHANICAL PROPERTIES ASSESSED BY ULTRASONOGRAPHY AND MYOTONOMETRY**
Kisielwicz, A. et al [Poland]

**CP-M108-9**
**FORCE-FREQUENCY CURVE BY NVES IS ASSOCIATED WITH MUSCLE THICKNESS AND MAXIMAL VOLUNTARY CONTRACTION FOR QUADRICEPS FEMORIS**
Torriola, A. et al [Japan]

**CP-BN11 SPORTS PHYSIOTHERAPY II**

**LECTURE ROOM: FORUM HALL (CP POSTER AREA)**
**Chairs:**
Veiera, T. [Italy]  
Anderssen, 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**
Graf, 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?**
Honzíkova, 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)**
**Chairs:**
Smith, M. [Australia]  
Blancquart, L. [Belgium]

**CP-PM14-1**
**IS BIOLOGICAL MATURATION A key predictor of youth soccer player’s management of team play?**
Ribiero, J. et al [Portugal]

**CP-PM14-2**
**ASTHMA AND ALLERGIES WITH REFERENCE TO PULMONARY FUNCTION, RESPIRATORY SYMPTOMS AND PRESCRIBED MEDICAL TREATMENT IN COMPETITIVE SWIMMERS**
Pávnin, M. et al [Finland]

**CP-PM14-3**
**THE RELATIVE AGE EFFECT IN POLAND’S YOUTH VOLLEYBALL**
Rubaczyk, K. et al [Poland]

**CP-PM14-4**
**SLEEP CHARACTERISTICS OF ELITE ATHLETES: COMPARISON BETWEEN SUBJECTIVE SLEEP QUESTIONNAIRE REPORTS AND OBJECTIVE MEASURES USING MONITORING DEVICE**
Kisiel-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**
Gumares, E. et al [Portugal]

**CP-PM14-7**
**EFFECTS OF DIET 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 U16 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)**
**Chairs:**
Kaviani, M. [Canada]  
Moholdt, T. [Norway]  
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CP-PM30 PHYSICAL DISABILITIES AND THERMOREGULATION

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):

ECSS Prague 2019 - Czech Republic, 3-6 July
Conventional Print Poster Presentations

CP-SH13-10
INFLUENCE OF SOCIAL SUPPORT ON EMOTIONAL REGULATION AMONG JAPANESE UNIVERSITY ATHLETES
Maki, Y. et al [Japan]

CP-PM32 CARDIOVASCULAR: YOUNG

LECTURE ROOM: FORUM HALL (CP POSTER AREA)

Chair(s):
Haapala, E. [Finland]

CP-PM32-1
EFFECTS OF UPPER-BODY RESISTANCE TRAINING VS. LOWER-BODY RESISTANCE TRAINING ON CENTRAL AND PERIPHERAL ARTERY STIFFNESS IN YOUNG ADULTS
Kim, J. et al [Korea, South]

CP-PM32-2
PREVALENCE OF ARTERIAL HYPERTENSION AND ABNORMALITIES IN ECHOCARDIOGRAPHY IN YOUNG STUDENTS
Reiner, B. et al [Germany]

CP-PM32-3
RELATIONSHIP BETWEEN VASCULAR COMPLIANCE AND BODY COMPOSITION, PHYSICAL FITNESS, AND DIETARY HABITS IN YOUNG PEOPLE: FOCUS ON THE DIFFERENCE BETWEEN VEIN AND ARTERY
Maeda, K. et al [Japan]

CP-PM32-4
ASSOCIATIONS OF ANTHROPOMETRIC MEASURES AND FITNESS STATUS WITH CARDIOVASCULAR PARAMETERS IN PRIMARY SCHOOL CHILDREN
Kirchhuebel, H. et al [Germany]

CP-PM32-5
AN INTER-RELATIONSHIP BETWEEN CARDIOVASCULAR AND POSTURAL SYSTEMS IN APPARENTLY HEALTHY CHILDREN
Prats-Puig, A. et al [Spain]

CP-PM32-6
EVALUATION OF CEREBRAL OXYGENATION IN MODERATE AND HIGH-INTENSITY CONSTANT-LOAD EXERCISE IN YOUNG ADULTS
Pinna, V. et al [Italy]

CP-PM32-7
AEROBIC FITNESS: INFLUENCE ON CARDIOVASCULAR HEALTH AND CARDIAC AUTONOMIC CONTROL IN YOUNG COLLEGE STUDENTS
de Sousa, A.F.M. et al [Brazil]

CP-PM32-8
HIGHER GOLF SKILL WAS CHARACTERIZED BY PSYCHOMOTOR REFINEMENT IN COGNITIVE, ATTENTIONAL AND MOTOR CONTROL PROCESSES.
Hung, T.M. et al [Taiwan]

CP-PM32-9
HOW DO AGE, SPORTS DISCIPLINE AND SCOPE OF TRAINING INFLUENCE SELECTED CARDIOPULMONARY EXERCISE PARAMETERS IN YOUNG ATHLETES?
Appel, K. et al [Germany]

CP-PM32-10
HOW DO AGE, SPORTS DISCIPLINE AND SCOPE OF TRAINING INFLUENCE SELECTED CARDIOPULMONARY 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 JACULI RECONSTRUCTION DURING RUNNING
Alani, S. et al (Saudi Arabia)

EP-UD01-69
CHARACTERISTICS OF STROKE PARAMETERS DURING THE START PHASE FOR SPRINT SPEED SKATERS
Yuda, J. et al (Japan)

EP-UD01-121
INVESTIGATION FOR THE MAXIMUM AEROBIC POWER PROFILE DEMAND ON THE ALPINE SKIERS
Hoshino, H. (Japan)

EP-UD01-123
TIME ANALYSIS OF THE GIANT SULOM TURN IN SNOWBOARDING
Ciacci, S. et al (Italy)

EP-UD01-125
ARM-STROKE DESCRIPTORS VARIABILITY DURING 200-M FRONT CRAWL SWIMMING
Costesi, M. et al (Italy)

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**PHYSICAL PERFORMANCE CHANGES AFTER 9 WEEKS OF CROSSFIT TRAINING IN COMPARISON TO THE OTHER FORMS OF HIT IN YOUNG MEN**

Wolanski, P. et al [Poland]

**EP-UD01-366**

**ACUTE EFFECTS OF FATIGUE ON MARKERS OF SERVICE PERFORMANCE IN YOUNG TENNIS PLAYERS**

Aguilera-Castells, J. et al [Spain]

**EP-UD01-375**

**EFFECT OF STRENGTH TRAINING ACCORDING TO (TORQUE) DEVELOP MECHANICAL EXPLOSIVE POWER AND A SEVERAL KINEMATIC VARIABLES ON SOCCER PLAYER**

jalal, n. et al [Iraq]

**EP-UD01-377**

**THE RELATIONSHIP BETWEEN LIFTING SPEED OR POWER IN WEIGHT TRAINING AND THROWING PERFORMANCE IN ATHLETICS**

Daisuke, Y. [Japan]

**EP-UD01-389**

**EFFECTS OF A COMPETITIVE PHASE FOLLOWED BY BLOCK PERIODIZED PREPARATION PHASE ON STRENGTH, POWER AND EXPLOSIVENESS IN A FEMALE WEIGHTLIFTER - A CASE STUDY**

Polívková, J. et al [Czech Republic]

**EP-UD01-399**

**THE RELATIONSHIP OF CARDIORESPIRATORY VARIABLES WITH BIOLOGICAL AGE IN 15-16 YEARS OLD MALE SOCCER PLAYERS**

Tánczos, B. et al [Hungary]

**EP-UD01-402**

**THE EFFECT OF GROUP EXERCISE FREQUENCY ON HEALTH-RELATED PHYSICAL FITNESS IN JAPANESE ELDERLY**

ISHIZAKI, S. et al [Japan]

**EP-UD01-403**

**THE EFFECT OF HOME TRAINING IN THE GAME QUARTERS OF U18 ELITE SOCCER PLAYERS**

Pálinkás, G. et al [Hungary]

**EP-UD01-404**

**THE EFFECT ON MUSCLE ACTIVATION IN TRUNK AND LOW-LIMBS DURING SQUAT EXERCISE ON VARIOUS SURFACES**

Lee, S.K. et al [Korea, South]

**EP-UD01-417**

**THE PHYSIOLOGICAL CHARACTERISTICS OF THE FIRST SAUDI FEMALE SPORT SCIENCE UNIVERSITY STUDENTS**

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)

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://www.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)


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 Delysys Trigno and Delysys 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)

25th 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 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.
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.human kinetics.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
Facebook: www.facebook.com/jshssus
Twitter: www.twitter.com/susjshs2017
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

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/NIRS 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

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-
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 World’s 1st Intelligent Digital Breathing Trainers, with an independent, International, 6 Nation, Clinical Medical Research study & other studies, endorsing POWERbreathe Inspiratory Muscle Training (IMT) devices include the POWERbreathe K-Series, the World’s 1st Intelligent Digital Breathing Trainers, with an independent, International, 6 Nation, Clinical Medical Research study & other studies, endorsing

QUIPU SRL [ITALY]


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.

ROULGETTE, TAYLOR & FRANCIS GROUP [UNITED KINGDOM]

As a leading publisher in the field of Sports and Leisure, Routledge proudly offers a wealth of highly-cited academic journals, consultative 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

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, physicists, doctors and researchers all over the world.

THE ELITE ATHLETE CENTRE/ LOUGHBOUROUGH 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 inspirational space for athletes, business and fitness enthusiasts to be the best they can be.

THE PHYSIOLOGICAL SOCIETY [UNITED KINGDOM]

Academic journals http://www.physsoc.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.

VALID PERFORMANCE (INTL) PTY LTD [AUSTRALIA]

Valid 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.

VICON MOTION SYSTEMS LTD. [UNITED KINGDOM]

Vicon delivers 3D movement analysis systems in sports training and research department’s world-wide. 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.

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/
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<td>08:00</td>
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<td>09:00 - 10:30</td>
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<td>10:30 - 12:00</td>
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<td>12:00 - 12:45</td>
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<td>12:45 - 13:45</td>
<td>CONVENTIONAL PRINT POSTER SESSIONS 1A</td>
<td>CP-PM01</td>
<td>CP-PM04</td>
<td>CP-PM05</td>
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<td>Molecular Signaling Response</td>
<td>MUSCLE GROWTH</td>
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<td>14:00 - 15:30</td>
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<td>High-Carbohydrate or High-Fat Diets... [APPLIED TRACK]</td>
<td>GSSI NUTRITION</td>
<td>MOLECULARBIOLOGY AND BIOCHEMISTRY: SIGNALING AND</td>
<td>MUSCLE AND/OR TENDON FUNCTION</td>
<td>PHYSIOLOGY</td>
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<td>15:30 - 16:00</td>
<td>Coffee break</td>
<td>OP-PM03</td>
<td>OP-PM02</td>
<td>OP-PM13</td>
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<td>NUTRITION: VITAMINS, COLLAGEN AND ANTIOXIDANTS</td>
<td>METABOLIC SYNDROME AND DIABETES</td>
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<td>16:00 - 17:30</td>
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<td>HEALTH AND FITNESS: CHILDREN AND ADOLESCENTS</td>
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<td>17:30 - 17:45</td>
<td>Break</td>
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<td>19:00 - 19:15</td>
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<td>Paavo Komi Memorial - Congress Hall</td>
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<td>20:00</td>
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### 24th Annual Congress of the European College of Sport Science - ECSS Prague 2019 – Czech Republic, 3 – 6 July

**Wednesday 3 July 2019**

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<td><strong>12:45 - 13:45</strong></td>
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<td><strong>CP-PM06</strong> BONE AND MUSCLE</td>
<td><strong>CP-SH02</strong> CHILDREN</td>
<td><strong>CP-PM02</strong> ERGOGENIC AIDS; FAT, GLUCOSE AND METABOLISM</td>
<td><strong>CP-BN02</strong> MUSCLE / TENDON FUNCTION</td>
<td><strong>CP-SH03</strong> HUMANITIES</td>
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<td>CONVENTIONAL PRINT POSTER SESSIONS 1A</td>
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<td><strong>CP-BN04</strong> BALANCE AND POSTURE</td>
<td><strong>CP-BN05</strong> RUNNING AND THROWSING</td>
<td><strong>CP-BN08</strong> JUMPING AND SQUATTING</td>
<td><strong>CP-MI02</strong> TRAINING AND TESTING</td>
<td><strong>CP-SH01</strong> PHYSICAL EDUCATION / PEDAGOGIC APPROACHES</td>
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<td><strong>14:00 - 15:30</strong></td>
<td><strong>OP-PM12</strong> TRAINING AND TESTING</td>
<td><strong>OP-PM10</strong> HEALTH AND FITNESS: CLINICAL POPULATIONS</td>
<td><strong>OP-SH06</strong> PROFESSIONAL DEVELOPMENT: PHYSICAL EDUCATION...</td>
<td><strong>OP-MI02</strong> TRAINING AND TESTING: RUGBY</td>
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<td><strong>OP-SH05</strong> CHILDREN</td>
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<td><strong>16:00 - 17:30</strong></td>
<td><strong>IS-BN01</strong> STABILITY TRAINING THROUGHOUT THE LIFESPAN</td>
<td><strong>OP-MI03</strong> TRAINING AND TESTING</td>
<td><strong>OP-PM09</strong> PHYSIOLOGY: TRAINING AND TESTING</td>
<td><strong>OP-BN06</strong> TEAM SPORTS: SOCCER</td>
<td><strong>OP-SH02</strong> SPORT STATISTICS AND ANALYSES</td>
<td><strong>OP-SH07</strong> PSYCHOLOGY: STRESS AND ANXIETY</td>
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<td>IS-MI02 ADVANCES IN ATHLETE DEVELOPMENT RESEARCH</td>
<td>OP-PM14 PHYSICAL ACTIVITY / INACTIVITY I</td>
<td>OP-PM05 LIFESTYLE AGEING</td>
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<td>OP-PM04 METABOLIC FITNESS AND FLEXIBILITY</td>
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Thursday 4 July 2019
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<td>OP-BN08 MOTOR UNIT FUNCTION I</td>
<td>OP-MI04 YOUTH FOOTBALL</td>
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<td>CP-PM09 MOLECULAR BIOLOGY</td>
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<td>OP-SH11 PSYCHOLOGY: COGNITION</td>
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<td>IS-SP01 FROM ANKLE SPRAIN ... - SPONSORED BY ADIDAS (CLINICAL TRACK)</td>
<td>OP-BN13 SPORT TECHNOLOGY I</td>
<td>OP-MI08 AGEING</td>
<td>OP-BN14 MOTOR LEARNING AND MOTOR CONTROL: TALENT - SKILLS ...</td>
<td>OP-SH12 PSYCHOLOGY: MOTIVATION</td>
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<td>OP-PM43 NUTRITION: SUPPLEMENTS AND DIETARY REGIMENS</td>
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<td>OP-SH15 SOCIOLOGY: CHILDREN AND GENDER</td>
<td>OP-SH14 PSYCHOLOGY: HEALTH AND WELL-BEING</td>
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## Friday 5 July 2019

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<td>08:00 - 09:30</td>
<td>Invited &amp; Orals IS-PM06 THE LUNGS DURING EXERCISE [CLINICAL TRACK]</td>
<td>OP-PM26 HIGH INTENSITY INTERVAL TRAINING</td>
<td>OP-PM25 METABOLIC SYNDROME AND DIABETES II</td>
<td>OP-PM29 TEAM SPORTS: SOCCER</td>
<td>OP-BN17 SPORTS PHYSIOTHERAPY: FOOT AND ANKLE</td>
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<td>Invited &amp; Orals IS-MI04 INDIVIDUALIZATION AND OPTIMIZATION OF EXERCISE ...</td>
<td>OP-PM30 CARDIOVASCULAR PHYSIOLOGY</td>
<td>OP-PM31 OBESITY</td>
<td>OP-PM32 MUSCLE DAMAGE AND REPAIR II</td>
<td>OP-BN19 MOTOR LEARNING AND MOTOR CONTROL COORDINATION</td>
<td>OP-BN20 TRAINING AND TESTING IN SWIMMING II</td>
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<td>14:45 - 16:15</td>
<td>Invited &amp; Orals IS-PM07 LOOKING INSIDE-OUT INTO AGING SKELETAL MUSCLE ...</td>
<td>OP-PM35 INTERVAL TRAINING</td>
<td>OP-PM36 NUTRITION: ERGOGENIC AIDS II</td>
<td>OP-PM37 FATIGUE</td>
<td>OP-MI11 CYCLING</td>
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<td>16:45 - 18:15</td>
<td>Invited &amp; Orals IS-MI08 A WARM BATH, GLASS OF (CHOCOLATE) MILK ... [APPLIED TRACK]</td>
<td>OP-PM40 FAT, GLUCOSE AND METABOLISM</td>
<td>OP-PM45 NUTRITION: PROTEIN AND DIETARY REGIMENS</td>
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<td>OP-PM51 EXERCISE THERAPY</td>
<td>OP-PM55 HEALTH AND FITNESS: SEDENTARY LIFESTYLE</td>
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<td>Invited &amp; Orals IS-MI09 IMAGING THE FUTURE OF ELITE SPORTS WITH METABOLIC ...</td>
<td>OP-PM47 CARDIOVASCULAR PHYSIOLOGY II</td>
<td>OP-PM47 HEALTH AND FITNESS: SEDENTARY LIFESTYLE</td>
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**Plenary Session II - Sport and brain injuries - A red flag for sport? - Congress Hall**

Plenary Session III - Sport and brain injuries - A red flag for sport? - Congress Hall
### Friday 5 July 2019

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<td>IS-BN06: (IM)BALANCE OF MUSCLE AND TENDON ADAPTATION...</td>
<td>OP-PM25: SPORTS PHYSIOTHERAPY: BACKPAIN</td>
<td>OP-MI14: AGING II</td>
<td>OP-BN26: SPORT TECHNOLOGY IV</td>
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<td>Invited &amp; Orals</td>
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<td>OP-PM42 NUTRITION: OTHER SUPPLEMENTS</td>
<td>IS-EX03 CSS-ECSS EXCHANGE SYMPOSIUM: SUPPORT SYSTEM FOR ELITE ATHLETES</td>
<td>OP-PM48 CARDIOVASCULAR PHYSIOLOGY III</td>
<td>OP-BN27 NEUROMUSCULAR FATIGUE II</td>
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<td>IS-PM12 CARDIAC, VASCULAR AND CEREBRO-VASCULAR ADAPTATION.</td>
<td>IS-MI01 THE NEUROSCIENCE AND INTERPRETATION OF PLACEBO.</td>
<td>OP-PM57 TRAINING AND TESTING: ENDURANCE</td>
<td>OP-MI15 STRENGTH AND POWER II</td>
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<td>IS-PM13 DIETARY NITRATE AND HYPOXIA</td>
<td>OP-PM60 THERMOREGULATION II</td>
<td>OP-PM61 CHILDREN</td>
<td>OP-PM62 MOLECULAR BIOLOGY AND BIOCHEMISTRY: METABOLICS</td>
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<td>OP-PM62 MOLECULAR BIOLOGY AND BIOCHEMISTRY: METABOLICS</td>
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SPORTEX
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SCI/SSCI IMPACT FACTOR : ~3.5 (2018)
5-Year IMPACT FACTOR : ~3.6

Fields of particular interest to JSHS include:
- Sport medicine
- Sport and exercise physiology
- Physical activity epidemiology
- Biomechanics