



HUNGARIAN UNIVERSITY  
OF SPORTS SCIENCE  
BUDAPEST

## 24<sup>th</sup> International Student Science Conference (ISSC)

Hungarian University of Sports Science (HUSS)

Alkotás u. 42–48., 1123 Budapest, Hungary

Email: [issc2024@tf.hu](mailto:issc2024@tf.hu)

# SESSIONS

## THURSDAY, 25 APRIL 2024

Room C001 Paris, K1 Building

**8.00-10.00 Session: Nutrition and metabolism**, Chairs: Prof. Dr. Csaba Nyakas, Dr. Margita Utczás

- Bartha Henrietta: The acute effects of combined supplementation of L-arginine and citrulline-malate on the Wingate Anaerobic test
- Dávid Csala: miRNA Profile of Distinct Extracellular Vesicles in Response to Nutrient Timing and Chronic Resistance Exercise
- Georgina Simkó: Effects of a weight loss intervention on type 2 diabetes risk and subjective quality of life
- Máté Demcsik: Short-term effects of "Citrulline Malate" on the circulatory and metabolic systems in male, athletic university students
- Qian Yu: Exercise Inhibits Hcc Tumor Growth and Modulates Lipid Metabolism Reprogramming In Tme And Downregulates AMPK Pathway
- Sarolta Tóth-Farkas: Effects of extreme psychological stress on serum lactate-level
- Soroosh Mozaffaritarab: PGC-1 $\alpha$  activation boosts exercise-dependent cellular response in the skeletal muscle
- Zoltán Borbás: Effects of time-restricted eating on the changes of body composition and visceral fat

**10.15-12.15 Session: Biomechanics**, Chairs: Prof. Dr. József Tihanyi, Dr. Bence Kopper

- István Gnyálin: The relationship between readiness and external load parameters in elite youth soccer players
- Máté Csányi: Relationship the Stretch-Shortening Cycle Efficiency with Sprint and Change-of-Direction Speed in Academy Soccer Players
- Rodrigo Silva Sousa: Effect of an ACL prevention programme on dynamic knee valgus in female football
- Wenlong Li: The effects of tai chi on lower limb biomechanics in patients with knee osteoarthritis: a scoping review
- Xiangli Gao: Exploring Biomechanical Variations in Ankle Joint Injuries Among Latin Dancers with Different Stance Patterns: Utilizing OpenSim Musculoskeletal Models



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- Yilin Zhong: A Comparison of the Biomechanical Effects of Stair Descent in Chronic Ankle Instability Patients and Healthy Individuals under Cognitive Tasks and Visual Deprivation Conditions
- Zhifeng Zhou: Chronic Ankle Instability patients adopt an altered movement pattern during unanticipated landing task

### **14.00–16.00 Session: Exercise in youth**, Chairs: Prof. Dr. Gábor Pavlik, Dr. Leonidas Petridis

- Aliz Hajós: Comparison of anthropometric parameters, body composition and somatotype in female youth and adult basketball, volleyball and handball players
- Balázs Miknyóczy: The role of biological age(s) in the selection process of elite youth soccer players
- Diána Führer: Associations between energy intake, eating behaviour and mental health in youth female handball athletes
- Mengchen Ji: Mixed Intervention Comparison of Sagittal Vertebral Column Bend Change Induced by Backpacks in School-aged Children and Adolescents: Systematic Review and Network Meta-analysis
- Mengchen Ji: The Effect of Backpack Waist Belt and Elastic Shoulder Strap Design on Shoulder Impact Forces in Children during Walking and Running
- Min Ye: The correlation between hand strength, flexibility and cognitive function in rhythmic gymnasts aged 6–8 years old
- Petra Halmi: Effect of motor development training with a paper roll on the visuo-motor coordination of 5–6-year-old preschoolers
- Sakura Ogawa: The effect of prolonged caloric restriction with endurance exercise training on skeletal muscle in young female rats: Implication for autophagy

### **Room C002 London, K1 Building**

### **8.00–10.00 Session: Sports in society**, Chairs: Dr. Nikoletta Sipos-Onyestyák, Dr. Botond Csuka

- Airnel Abarra: Power Dynamics from Coaching Experiences of Female Bodybuilders vis-a-vis On-Site and in a Virtual Environment
- Bence Kelemen: Prominent Hungarian coaches in the development of distance running training methodology: Mihály Iglói and László Híres
- Bettina Gáspár: Optimizing Anti-Doping Regulations through Fuzzy Logic Modeling of Economic and Legal Dimensions.
- Ceren Temiz: Mind maps in physical education: Cognitive and psychomotor domain development
- Dorottya Borbála Rafáczné Gerics: Make some noise for the electric racing – The involvement of athletes of electric motorsport series in sports diplomacy



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- Janice Juaban: Morphing the Body: Narratives of an Amateur Bodybuilder
- Orsolya Bogdany: Contemporary Media Representations of Romanian and Hungarian Sport Relations through Ice Hockey

### **10.15–12.15 Session: Sport experience**, Chairs: Dr. Tamás Dóczi, Prof. Dr. László Tóth

- Anna Fanni Gaál: The migration and the motivational factors of the Hungarian figure skaters
- Giuseppe Coppola: Sport and War: the impact of the crisis on the performance of the Palestine national football team
- Hajnalka Eszter Selmecci: More than just dogs – Psychological aspects of dog sports
- Jázmin Szikora: Yoga is the new flow? –The relationship between self-knowledge and the flow experience through yoga practice
- Lilla Dorka Limburger: The societal and sports-related impacts regarding body image among aesthetic athletes.
- Luca Bakos: Post-injury mental disorders among handball players
- Veronika Fülöp: The appearance of homonegativity and discrimination in physical education and sport among university students
- Zhang Qingyuan: Mixed Strategy in Elite Fencing – Using Sabre as an Example

### **14.00–16.00 Session: Psychological aspects of sport**, Chairs: Dr. Judit Boda-Ujlaky, Prof. István Soós

- Anna Ferencz: Influences of achievement goals and motivational climate towards the Hungarian athletes' performance at the 2023 World Championships in Budapest
- Bhavya Chhabra: Passion, Perfectionism, and Sports Commitment as Predictors of Exercise Addiction
- Borbála Bernadett Zala: Effect of mental training on adolescent artistic swimmers
- Lilla Szabó-Gurisatti: Attention training in the development of ice hockey players
- Liza Komáromi: Psychological Aspects of Motocross Racing Considering Expected, Perceived, and Actual Performance
- Oliver Szabella: E-sport performance measurement with physical activity intervention
- Renátó Tóth: Inside the Athlete's Mind: The Dominance of Irrational Beliefs and their effect on Competitive Anxiety

### **Room C102, K1 Building**

### **14.00–16.00 Session: Aging**, Chairs: Dr. Lee Chee Pheng, Dr. Tímea Téglás

- Beáta Katula- Csizmadia: Effects of Resistance Training on Muscle-Tendon Function and Cost of Transport in Older Adults



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- Marta Skurewicz: Impact of High-Intensity Interval Exercise on Executive Performance and Prefrontal Cortex Activation in the Elderly: A Pilot Investigation
- Mehmet Akman: Effects of Achilles Tendon Stiffness on Gait Mechanics and Force Production in Older Adults
- Mohamed Emam: Effects of Short and Longer Duration Eccentric and Concentric Resistance Training on Muscle-Tendon, Balance, and Gait Function in Older Individuals
- Oskar Poniewski: The association between physical fitness, body composition, blood lipid profile, and cognitive function among the elderly
- Zbigniew Jost: Acute aerobic and resistance high-intensity interval trainings affect tryptophan metabolism among the elderly
- Zhou Lei: The effect of long-term lactate and high-intensity interval training (HIIT) on brain neuroplasticity of aged mice
- Zsófia Bábszky: DNA methylation-based aging clocks of 59 Olympic Champions: Are they younger or older than their chronological age?

## FRIDAY, 26 APRIL 2024

Room C001 Paris, K1 Building

**8.00-10.00 Session: Sport and Performance**, Chairs: Prof. Dr. Miklós Tóth, Dr. Sándor Sáfár

- Dávid Aurél Petz: Effect of music to athletes' performance
- Emil Imre: Data analyzing in short track speed skating
- Márton Horváth: Incline-dependency of the power-duration relationship in cross-country skiing
- Péter János Tóth: Effects of offensive and defensive playing strategy conditions on external loads in elite junior tennis players

**10.15-11.30 Plenary session**. Moderator: Prof. Dr. Zsolt Radák. Presenters: Dr. János Négyesi, Kristóf Világi, Dr. Mojca Doupona.

**14.00-16.00 Session: Prevention and rehabilitation**, Chairs: Dr. Zsombor Lacza, Dr. Leila Seres

- Aojie Zhu: Effect of Foot-Shaped Bionic shoes on Ground Reaction Forces at Various Running Speeds
- Belmokhtar Karim: Implementation of a Connected Device-Based Protocol for Real-Time Heart Rate Variability Assessment in Athletes During Physical Tests
- Faisal Rasool: Dynamic Warm-up and Gentle Stretching Exercises to Success in Jumping Events; An Experimental Approach



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- Gábor Kiss: The short-term effects of foam rolling on ankle mobility compared to static stretching
- Jiongxiang Zhao: The effect of short-term neuromuscular training on ankle bio-mechanics in individuals with functional ankle instability

### Room C002 London, K1 Building

#### **8.00-10.00** Session: **Physical activity**, Chairs: Prof Dr. Gábor Géczi, Dr. Szilvia Perényi

- Lina Takruri: Physical Activities level of Jordanian female adults regarding the traditions and the modern society
- Michubu Jonah Karwamba: Variations in Physical Activity Awareness and Motivation between Users and Non-users of Physical Activity Movement Tracking Devices
- Milena Mitrović: Physical activity of female students of the University of Montenegro
- Mirjana Đukić: Healthy Lifestyle Habits Among Female University Students
- Narges Ghazvini: Differences in physical activity levels among female students in Iran and Hungary
- Tereza Viplerová: Evaluation of the Quality of Supporting Activities at Charles University

#### **14.00-16.00** Session: **Sport management, organizations and media**, Chairs: Prof. Dr. Mojca Doupona, Prof. Dr. Tamás Sterbenz

- Alana Richardson: The Matilda effect: Analysis of the Australian media coverage and impact of the 2023 Women's World Cup
- Edina Krár: Ultras in the stands: The cheering as lifelong lasting engagement
- Eszter Fekésházy: Impact of Major Sporting Events on Sport Participation in the Host Country: Focusing on leading international swimming competitions held in Hungary
- Ferenc Szöllösi: The positive effect on the hungarian cycling and tourism by the bigger races. Like Giro d'Italia and Tour de Hongrie
- Leny Keo: Exploring the Element of Sports and Recreation on Tourist Motivation in Cambodia
- Nikola Sarkovic: Athlete's attitudes about Commercial Sports Brand Sponsorship and Brand Knowledge in the international tennis table event
- Nóra Széles: Comparative Analysis on Sportswashing
- Veronika Krause: Evaluating football clubs using ORESTE and AGREPREF