The 23rd International Puijo Symposium:

"PHYSICAL EXERCISE FOR HEALTH PROMOTION AND MEDICAL CARE – TRANSLATION OF RESEARCH EVIDENCE TO EVERYDAY PRACTISE"

Kuopio, Finland June 27 – 30, 2022

Organized by:

Kuopio Research Institute of Exercise Medicine

In partnership with:

Federation of Finnish Learned Societies
City of Kuopio
Finnish Society of Clinical Physiology
Finnish Physiological Society
Finnish Association of Physiotherapists
Faculty of Sport and Health Sciences, the University of Jyväskylä
Finnish Centres of Excellence in Sports and Exercise Medicine
Faculty of Health Sciences, the University of Eastern Finland
Expertise and Business Network for North Savo rehabilitation services

Supported by:

Finnish Youth and Sport Experts Association

Scientific Program

MONDAY, June 27

09:00 Registration

12:15 OPENING CEREMONIES

Jukka Mönkkönen, Rector, University of Eastern Finland

Sari Essayah, Member of Parliament of Finland, Member of IOC

ROLE OF INACTIVITY IN CHRONIC DISEASES: EVOLUTIONARY INSIGHT AND PATHOPHYSIOLOGICAL MECHANISMS

Chairperson Dr Kai Savonen, Finland

13:00 Why we run

Dr Bernd Heinrich, USA

13:40 Why we never evolved to exercise

Dr Daniel Lieberman, USA

14:20 Physical activity enhances longevity

pro Dr Jonathan Myers, USA con Dr Urho Kujala, Finland

15.00 Break

FROM BENCH TO BEDSIDE...TO THE COMMUNITY HEALTH

Chairperson Dr Olli J. Heinonen, Finland

15.30 Lifelong exercise as a countermeasure against age-related decline in ability to function

Dr Alejandro Lucia, Spain

16.00 Promoting health-enhancing physical activity: successful examples

Dr Tommi Vasankari, Finland

16.30 Responsibility of sport and exercise medicine in preventing chronic disease

Dr Mats Börjesson, Sweden

18:30 Reception of the city of Kuopio

Town Hall

FROM SCIENCE TO CLINICAL PRACTICE I – Cardiorespiratory performance

Chairperson Dr Arto Hautala, Finland

08:00	Pulmonary limits to maximal cardiorespiratory performance in health and disease Dr Jerome Dempsey, USA
08:30	Limitations to maximal cardiorespiratory performance in health and disease Dr Andrew Jones, UK
09:00	The clinical importance of maximal cardiorespiratory performance: the past, present and future Dr Jonathan Myers, USA
09.30	Cardiopulmonary exercise testing for risk prediction in major surgery Dr Denny Levett, UK
10:00	Break

FROM SCIENCE TO CLINICAL PRACTICE II - Cardiovascular diseases

Chairperson Dr Juha Hartikainen, Finland

10:30	Exercise and endothelium Dr Arno Schmidt-Trucksäss, Switzerland	
11:00	Exercise and retinal microvascular function across the lifespan Dr Henner Hanssen, Switzerland	
11:30	Towards a personalized approach in exercise-based cardiovascular rehabilitation: how can translational research help? Dr Nicolle Kränkel, Germany	
12:00	CPET imaging in cardiology: applications and perspectives Dr Marco Guazzi, Italy	
12:30	Lunch	
Chairperson Dr Tomi Laitinen, Finland		
13.45	Too much exercise for cardiovascular health? Myth or fact? Dr Paul Thompson, USA	
14:15	Mechanical cardiopulmonary interactions during exercise in heart failure Dr Piergiuseppe Agostoni, Italy	
14.45	Exercise training and physical activity in patients with heart failure Dr Matthias Wilhelm, Switzerland	
15.15	The clinical benefit of high-intensity interval training outweighs the potential risks pro Dr Trine Moholdt, Norway con Dr Juha Hartikainen, Finland	
18:30	Oral presentations at Old Harbour restaurant at Kuopio Passenger Harbour	

FROM SCIENCE TO CLINICAL PRACTICE III - Metabolic diseases

Chairperson Dr Timo Lakka, Finland

08:00	Role of inactivity in the development of metabolic syndrome Dr Frank Booth, USA
08:40	The Fat but Fit paradox Dr Mikael Fogelholm, Finland
09:20	A time to eat, a time to exercise: circadian biology and metabolic health Dr John Hawley, Australia
10:00	Break
10:30	Mitochondria and aging - the role of exercise as a countermeasure Dr Mark Tarnopolsky, Canada
11:10	Exercise as a modulator of intestinal microbiome Dr Andrea Ticinesi, Italy
MARTTI J. K	ARVONEN YOUNG INVESTIGATOR AWARD PRESENTATIONS
11:45	Finalist 1
12:00	Finalist 2
12:15	Finalist 3

RALPH S. PAFFENBARGER JR. POSTER COMPETITION

13:45	Finalist 1
14:00	Finalist 2
14:15	Finalist 3

Lunch

12:30

14:30 PUIJO SYMPOSIUM 2014 HONORARY LECTURE

Dr Martin Halle, Germany

METHODOLOGICAL FRONTIERS OF EXERCISE MEDICINE

Chairperson Dr Vesa Kiviniemi, Finland

08:30	Statistical pitfalls of personalized medicine, Dr Stephen Senn, UK
09:10	The human risks of bias in medical and rehabilitation research and practice Dr Antti Malmivaara, Finland
09:50	How to design the optimal exercise-based RCT – ask the experts moderator Dr Vesa Kiviniemi, Finland
10:30	Break
11:00	From evidence-based knowledge to evidence-based decision-making Dr Kari Raivio, Finland

PUIJO SYMPOSIUM HALL OF FAME: GREETINGS FROM THE GIANTS OF EXERCISE MEDICINE

Chairperson Dr Rainer Rauramaa, Finland

11:35	Dr Ilkka Vuori, Finland
12:05	Recipient of Heikki Pekkarinen Memorial Award
12:35	Lunch
13:45	Martti J. Karvonen Young Investigator Award ceremony
14:00	Ralph S. Paffenbarger Jr. Poster Competition Award ceremony
14:15	Understanding the cellular and molecular mechanisms of physical activity-induced health benefits Dr P. Darrell Neufer, USA
15:00	Closing of the Symposium Dr Martin Halle, Germany

For information and registration on-line: www.puijosymposium.org E-mail: puijo.symposium@kultu.fi

PUIJO SYMPOSIUM SECRETARIAT

Foundation for Research in Health Exercise and Nutrition, Kuopio Research Institute of Exercise Medicine Haapaniementie 16, FI-70100 KUOPIO, Finland

ABSTRACT SUBMISSION

Please submit your previously unpublished abstract by e-mail to puijo.symposium@kultu.fi by April 30th, 2022.

Abstracts will be selected on the basis of scientific merit and presented as oral presentations. All abstracts will take part in The Ralph S. Paffenbarger Jr. Abstract Award unless the author inform his/hers unwillingness. Notification of the acceptance will be made by May 15, 2022. If you have any further questions, please contact Puijo Symposium Secretariat by contact form or email.

Please note abstracts will be processed further after receiving the registration fee. Instructions for the preparation of abstracts and advice for oral presentations and posters, see our website www.puijosymposium.org

Heikki Pekkarinen Memorial Award will be delivered for the third time in the 23rd International Puijo Symposium. The Award is to honour Heikki's pioneering and extensive commitment in developing both the substance as well as modern teaching methods in health sciences.

CONGRESS VENUE

Puijo Symposium will be held at IsoCee Cinema Centre in the heart of Kuopio.

ACCOMMODATION

Hotel Puijonsarvi and Scandic Atlas are the official hotels of the symposium.

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WELCOME TO THE KUOPIO REGION

The Kuopio region is situated in central Finland, in the verdant province of North Savo, which is interspersed with thousands of lakes.

The backdrop for the summer atmosphere in the Kuopio region is provided by lakes and islands, great to explore on boat cruises, as well as by the landscape of forest-covered hills. Boating, hiking and other forms of outdoor recreation are really spoilt for choice here. The region also boasts a wide variety of cultural activities and events.

The lakes, which abound with fish, guarantee good catches throughout the year. Leisure spas with their bubbling pools and baths offer relaxation and invigoration whenever you feel the need.

How to reach Kuopio

By flight: connections are excellent as there are 5-10 daily flights (duration 50 minutes) from capital Helsinki. www.finnair.com

By train: There are several trains daily from Helsinki to Kuopio and the journey takes about four hours. www.vr.fi/eng

By car: Kuopio is situated by one of the arterial roads of the country, highway 5 leading from Helsinki to Lapland.

The Kuopio region can also be reached by bus from Helsinki.