PROGRAM

June 2

14:00-15:00  Registration and Coffee/Tea

15:00-15:10  Opening: Jannik Hilsted, Medical Director of Rigshospitalet

The History - Continuing in the Steps of Krogh and Lindhard


15:25-15:40  Formative Years in Stockholm
Peter Schantz

15:40-15:55  The August Krogh Institute: Capillaries and Beyond
Gisela Sjøgaard

The Copenhagen Muscle Research Centre

15:55-16:10  Chairs: Jerome Dempsey & Peter B. Raven

16:10-16:25  How to Get Value for Money
Peder Olesen Larsen

16:25-16:40  The Activity
Michael Kjær

16:40-16:55  The International Standing
Michael Joyner

17:00-19:00  Reception (Rigshospitalet)
Saltin Salutations and Mingling

June 3

Muscle Physiology

08:30-08:45  Chairs: Erik A. Richter & Stephen Harridge

08:45-09:00  Overview of Muscle and Exercise
Mark Hargreaves

09:00-09:15  Muscle Fibre Type and Beyond
Stefano Schiaffino

09:15-09:30  New Insights on Muscle Metabolic Profile
Niels Ørtenblad
09:30-09:45  Muscle Adaptation to Exercise: New Paradigms  
*Frank Booth*

09:45-10:15  Discussion

10:15-10:45  *Coffee/Tea*

**Signalling Events and Muscle Metabolism**

10:45-11:00  *Chairs: Henriette Pilegaard and Terry Graham*

11:00-11:15  Imaging: Muscle Structure and Substrates  
*Clara Prats*

11:15-11:30  Substrate Choice  
*Bente Kiens*

11:30-11:45  Exercise and Muscle Signal Transduction  
*Jørgen Wojtaszewski*

11:45-12:00  Mitochondrial Function and Exercise  
*Darrell Neufer*

12:00-12:15  Oxidative Capacity vs. Exercise VO₂  
*Eva Blomstrand*

12:15-12:45  Discussion

12:45-13:30  *Lunch*

**Cardiovascular Physiology I**

13:30-13:45  *Chairs: Niels H. Secher and Jere Mitchell*

13:45-14:00  Muscle Vasodilator Mechanisms  
*Ylva Hellsten*

14:00-14:15  The Role of ATP in Muscle Blood Flow  
*Jose Gonzalez-Alonso*

14:15-14:30  Central and Regional Blood Flow Regulation  
*Jose A.L. Calbet*

14:30-14:45  Reflex Control of Circulation  
*Paul Fadel*

14:45-15:15  Discussion

15:15-15:45  *Coffee/Tea*
Cardiovascular Physiology II

15:45-16:00 *Chairs: Jaya Rosenmeier & Susanne Vissing*

16:00-16:15 Cardiovascular Regulation with Aging and Training
*Stefan Mortensen*

16:15-16:30 Physiological adaptations to exercise training
*Carsten Lundby*

16:30-16:45 Acclimation of the oxygen transport system with skiing in the Arctic
*Robert Boushel*

16:45-17:00 Cardiovascular Regulation After Bedrest and Spaceflight
*Benjamin Levine*

17:00-17:15 Modeling O₂ Transport as an Integrated System: Effect of Training
*Peter D. Wagner*

17:15-17:45 Discussion

19:30 Dinner in Tivoli Gardens (*separate registration needed*)
Celebrating Bengt’s 80th Birthday
*Chairs: Henrik Klitgaard & Susanne Vissing*

June 4

08:50 *All participants must be seated*
09:00 Arrival of HRH Crown Prince Frederik

Saltin Award Ceremony

09:00-09:05 *Chair: Henrik Klitgaard*

09:05-09:15 Saltin Award Presentation
*HRH Crown Prince Frederik*

09:15-09:30 Awardee Talk: Human responses to altitude
*Christoph Siebenmann*

Applied and Comparative Physiology

09:30-09:45 *Chairs: Eva Jansson and Gerrit van Hall*

09:45-10:00 Sport Physiology
*Jens Bangsbo*
10:00-10:15  Olympic Scientific Activity  
*Stefan Lindeberg*

10:15-10:30  Elite Skiers  
*Hans Christer Holmberg*

10:30-11:00  The Kenyan Runners  
*Henrik Larsen & William Sheel*

11:00-11:15  Mitochondrial Fitness in the Cold: From Inuit Hunters to High-Altitude Climbers  
*Erich Gnaiger*

11:15-11:30  Discussion  

11:30-12:00  *Coffee/ Tea and Sandwiches*  

**Exercise and Health**

12:00-12:15  *Chair: Bente Klarlund Pedersen*

12.15-12:30  The 'Saltin-Grimby Physical Activity Level Scale' and its Application to Health Research  
*Gunnar Grimby*

12:30-12:45  Muscle, Exercise and Health throughout the Lifespan  
*Mark Tarnopolsky*

12:45-13:00  Discussion  

13:00  *Closing: Inge Holm*

---

**Symposium Chairs, Lecturers and Organizers**

**Benjamin Levine**  
Director, Institute for Exercise and Environmental Medicine, S. Finley Ewing Jr. Chair for Wellness at Texas Health Presbyterian Dallas, Harry S. Moss Heart Chair for Cardiovascular Research, Professor of Medicine and Cardiology, Distinguished Professorship in Exercise Science, University of Texas Southwestern Medical Center at Dallas, USA

**Bente Kiens**  
Professor, Section of Molecular Physiology, Department of Nutrition, Exercise and Sports, University of Copenhagen, Denmark
Bente Klarlund Pedersen
Professor, Director, Centre for Physical Activity Research (CFAS) and Centre of Inflammation and Metabolism (CIM), Rigshospitalet and University of Copenhagen, Denmark

Birgitta Essén-Gustavsson
Associate Professor, Swedish University of Agricultural Sciences, Department of Large Animal Clinical Sciences, Uppsala, Sweden

Carsten Lundby
Professor, Center for Integrative Human Physiology (ZIHP), University of Zurich, Institute of Physiology, Zürich, Switzerland

Christoph Siebenmann (Saltin Awardee)
Postdoc Researcher, Royal Institute of Technology, School of Technology and Health, Stockholm, Sweden

Clara Prats
Associate Professor, Systems Biology Research Section, Panum Institute, University of Copenhagen, Denmark

Darrell Neufer
Director, Professor, Departments of Physiology and Kinesiology, East Carolina Diabetes and Obesity Institute, USA

Emil Holm Toft
Administrative student assistant; BA of Laws, Centre for Physical Activity Research (CFAS) and Centre of Inflammation and Metabolism (CIM), Rigshospitalet and University of Copenhagen, Denmark

Erich Gnaiger
Professor, Daniel Swarovski Research Laboratory, Department of Visceral, Transplant and Thoracic Surgery, Medical University of Innsbruck and CEO, Oroboros Instruments Corp., Austria

Erik A. Richter
Professor, Section of Molecular Physiology, Department of Nutrition, Exercise and Sports, University of Copenhagen, Denmark

Eva Blomstrand
Professor in Nutrition Physiology, GIH, Swedish School of Sport and Health Sciences, Stockholm, Sweden

Eva Jansson
Professor, Division of Clinical Physiology, Department of Laboratory Medicine, Karolinska Institute, Stockholm, Sweden
Frank Booth
Professor, Departments of Biomedical Sciences, Medical Pharmacology and Physiology, and Nutrition and Exercise Physiology, Dalton Cardiovascular Institute, University of Missouri, USA

Gerrit van Hall
Professor, Department of Endocrinology, Rigshospitalet and University of Copenhagen, Denmark

Gisela Sjøgaard
Professor, Department of Sports Science and Clinical Biomechanics, University of Southern Denmark, Denmark

Gunnar Grimby
Professor Emeritus, Department of Neuroscience and Physiology, Section of Clinical Neuroscience and Rehabilitation, University of Gothenburg, Sweden

Hans-Christer Holmberg
Professor, HLV, Mid Sweden University, Sweden

Henriette Pilegaard
Professor, Senior Group Leader, Centre for Physical Activity Research (CFAS) and Centre of Inflammation and Metabolism (CIM), Department of Biology, University of Copenhagen, Denmark

Henrik Klitgaard
Henrik Klitgaard, PhD, Vice President, Neuroscience Therapeutic Area, UCB Pharma, Belgium

Henrik B. Larsen
Cand. Scient., Copenhagen, Denmark

Inge Holm
Head (administration); Centre for Physical Activity Research (CFAS) and Centre of Inflammation and Metabolism (CIM), Rigshospitalet and University of Copenhagen, Denmark

Jan Henriksson
Professor Emeritus, Department of Physiology and Pharmacology, Karolinska Institute, Stockholm, Sweden

Jaya Birgitte Rosenmeier
Chief Consultant Cardiologist Ph.d., Department of Cardiology, Bispebjerg Hospital, Copenhagen, Denmark

Jens Bangsbo
Professor, Deputy Head of Research, Integrative Physiology, Department of Nutrition, Exercise and Sport, University of Copenhagen, Denmark
Jere H. Mitchell  
Clinical Professor, Internal Medicine, Physiology, Biomedical Engineering, UT Southwestern Medical Center, Dallas, USA

Jerome Dempsey  
John R. Sutton Professor Emeritus of Population Health Sciences Director, John Ranking Laboratory of Pulmonary Medicine, School of Medicine and Public Health, University of Wisconsin-Madison, USA

José A.L. Calbet  
Professor of Exercise Physiology, Dept. of Physical Education, University of Las Palmas de Gran Canaria, Spain

José Gonzalez-Alonso  
Professor of Exercise and Cardiovascular Physiology, Director of Centre for Sports Medicine and Human Performance, Brunel University London, United Kingdom

Jørgen Wojtaszewski  
Professor, Section of Molecular Physiology, August Krogh Centre, Department of Nutrition, Exercise and Sports, University of Copenhagen, Denmark

Marie Kvistgaard  
Symposium secretary, Centre for Physical Activity Research (CFAS) and Centre of Inflammation and Metabolism (CIM), Rigshospitalet and University of Copenhagen, Denmark

Mark Hargreaves  
Pro Vice-Chancellor of Melbourne Research, Professor of Physiology, Dept. of Physiology, Faculty of Medicine Dentistry and Health Sciences, University of Melbourne, Australia

Mark Tarnopolsky  
Professor, Department of Pediatrics and Department of Medicine, McMaster University, Hamilton, Ontario, Canada

Michael Joyner  
Professor, The Human and Integrative Physiology and Clinical Pharmacology laboratories, Mayo Clinic, Rochester, USA

Michael Kjær  
Professor of Sports Medicine, Institute of Sports Medicine and Centre for Healthy Ageing, Bispebjerg Hospital and University of Copenhagen, Denmark.

Niels H. Secher  
Clinical Professor, Institute for Clinical Medicine, Rigshospitalet, University of Copenhagen, Denmark
Niels Ørtenblad  
Associate Professor, Head of Research Unit, Institute of Sports Science and Clinical Biomechanics, Muscle Physiology and Biomechanics, University of Southern Denmark, Denmark

Paul Fadel  
Associate Professor, Medical Pharmacology and Physiology, School of Medicine, University of Missouri Health System, USA

Peder Olesen Larsen  
Head of the Board and Director of the Danish National Research Foundation from 1991 to 1998, University of Copenhagen, Denmark

Peter B. Raven  
Professor, Department of Integrative Physiology and Anatomy, University of North Texas Health Science Center, Fort Worth, USA

Peter Schantz  
Professor in Human Biology, GIH, Swedish School of Sport and Health Sciences, Stockholm, Sweden

Peter D. Wagner  
Distinguished Professor of Medicine and Bioengineering, Division of Physiology, Department of Medicine, University of California, San Diego, USA

Robert Boushel  
Professor, GIH, Swedish School of Sport and Health Sciences, Stockholm, Sweden

Stefan Lindeberg  
President of the Swedish Olympic Committee (SOK) Executive Board, Stockholm, Sweden

Stefan Mortensen  
Associate Professor, Cardiovascular and Renal Research, University of Southern Denmark, Denmark

Stefano Schiaffino  
Professor Emeritus, University of Padova, and Vice President, Venetian Institute of Molecular Medicine (VIMM), Italy

Stephen Harridge  
Professor of Human and Applied Physiology, Director at Centre of Human and Aerospace Physiological Sciences, Faculty of Life Sciences and Medicine, Kings College London, United Kingdom

Susanne Vissing  
MD, DMSc, Medical Specialist, Dermatology, Copenhagen, Denmark
Terry Graham  
Professor Emeritus, Human Health and Nutritional Sciences, University of Guelph, Canada

William Sheel  
Professor, University of British Columbia, Vancouver, Canada

Ylva Hellsten  
Professor, Integrated Physiology, Department of Nutrition, Exercise and Sport, University of Copenhagen, Denmark

The Saltin Symposium  
‘Exercise and Integrative Physiology’

is supported by

Rigshospitalet

TrygFonden

&

DANISH DIABETES ACADEMY

The Danish Diabetes Academy is supported by The Novo Nordisk Foundation

Saltin Symposium Contact Information  
Address: Rigshospitalet, 7641, Blegdamsvej 9, DK-2100 Copenhagen Ø  
Tel +45 3545 7641  
E-mail: saltin2015@inflammation-metabolism.dk  
www.aktivsundhed.dk