

Basic and Clinical Research in Musculo-skeletal and Oral Sciences

Post graduate research program, Faculty of Health and Medical Sciences – University of Copenhagen

in collaboration with

**Clinical Academic Groups, Copenhagen Health Science Partners
(Region H and University of Copenhagen)**



“Physical Activity and Sports in Clinical Medicine – Disease Prevention, Treatment and Rehabilitation”

Annual Symposium

Friday 8th December – Saturday 9th December 2017

Comwell Borupgaard
Nørrevej 80, 3070 Snekkersten

FRIDAY 8.DECEMBER

10.00 – 10.45

Key-note lecture:

How does the body respond to extreme exercise challenges?
Professor Jørn Wulff Helge, Dept of Biomedical Sciences, University of
Copenhagen

Chair: Professor Michael Kjær

10.50 – 12.30

Free oral presentations from PhD students

<p>Auditorium A Chairs: Professor Vibeke Backer and Senior Researcher Jesper Løvind Andersen (+ MA Thea Feveile Sejr Hansen)</p> <p>Presentations each 8+4 min</p> <p>The oral presentations are followed by feedback on the presentation technique (20 min) (MA Thea Feveile Sejr Hansen)</p> <p>10.50 – 11.02 Thomas Morville “Glucose Homeostasis in statin-users with and without myalgia”</p> <p>11.02 – 11.14 Anja Birk Kuhlman “Insulin sensitivity and Q10 supplementation in Simvastatin-treated patients. A LIFESTAT study”</p> <p>11.14 – 11.26 Anders Karlsen “Satellite Cells and myonuclear content in very old men and women (83-94 years) and the response to resistance exercise”</p> <p>11.26 – 11.38 Anne Theil Gylling “Physical activity as intervention for age related loss of muscle mass and function: The LISA study (<u>L</u>ive active <u>S</u>uccessful <u>A</u>ging)”</p> <p>11.38 – 11.50 Mikkel Bek Clausen “A comparison of patient-reported function and pain between patients with common shoulder diagnoses: A consecutive cohort of 325 patients in secondary care”</p> <p>11.50 – 12.02 Christian Skou Eriksen “Does resistance training affect tendon morphology and mechanical properties in older adults?”</p>	<p>Auditorium C Chairs: Associate Professor Charlotte Brøns and Professor Marius Henriksen</p> <p>Presentations each 8+4 min</p> <p>The oral presentations are followed by feedback on the presentation technique (20 min)</p> <p>10.50 – 11.02 Lasse Ishøi Return to sport rates after hip arthroscopy in athletes are lower than previously reported: A cross-sectional cohort study of 186 athletes 6 months to 6 years after surgery for femoroacetabular impingement syndrome”</p> <p>11.02 – 11.14 Peter Tran “A new animal model for tendinopathy by studying Achilles tendons of mice with Marfan syndrome perform voluntarily aerobic exercise”</p> <p>11.14 – 11.26 Rizky Suganda Prawiradilaga “Acute Osteogenic Response of Bone Turnover Markers in postmenopausal women after High-impact Jumping”</p> <p>11.26 – 11.38 Louise Lang Lehrskov “IL-6 delays gastric emptying”</p> <p>11.38 – 11.50 Jacob Frandsen “Fasting and repeated incremental exercise increases peak fat oxidation in highly trained athletes”</p> <p>11.50 – 12.02 Pernille Rudebeck Mogensen “Altered lipid and glucose metabolism at time of diagnosis in children with acute lymphoblastic leukemia”</p>
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12.30 – 13.15

Lunch

SYMPOSIUM 1 (auditorium A):

Cardiovascular-respiratory – from vessels to ventilation

Chairs: Professor Peter Magnusson and Professor Gerrit van Hall

- 13.15 – 13.40 Adaptation of vasculature to exercise training – potential role in hypertension treatment.
Professor Ylva Hellsten, Institute for Nutrition, Exercise and Sports, Univ of Copenhagen
- 13.45 – 14.10 Cardiac adaptation to long term low intensity exercise training
Chief physician Hanne Rasmusen, Dept. Cardiology, Bispebjerg Hospital
- 14.15 – 14.40 Respiratory problems with exercise
Professor Vibeke Backer, Dept Pulmonology, Bispebjerg Hospital
- 14.45 - 15.10 Does asthma medicine influence muscle performance?
Assistant Professor Morten Hostrup, Dept Pulmonology, Bispebjerg Hospital

SYMPOSIUM 2 (auditorium C):

Metabolism – skeletal muscle, gut and diabetes

Chairs: Professor Bente Stallknecht and Professor Bjørn Quistorff

- 13.15 – 13.40 Exercise and glucose metabolism – what regulates the effect?
Post doc Rasmus Kjøbsted, Institute for Nutrition, Exercise and Sports, Univ of Copenhagen
- 13.45 – 14.10 GLP-1 role in metabolic treatment – appetite, obesity and heart disease
Associate professor Signe Torekov, Department of Biomedical Sciences and Novo Nordisk Foundation Center for Basic Metabolic Research, Univ of Copenhagen
- 14.15 - 14.40 Alpine skiing and metabolic health
Professor Flemming Dela, Institute of Biomedical Research, Univ of Copenhagen
- 14.45-15.10 Type 2 diabetes treatment – pharmacology and/or exercise?
Professor Tina Vilsbøll, Steno Diabetes Center
- 15.15-15.45 Break (coffee/tea)**

SYMPOSIUM 3 (auditorium A):

Musculo-skeletal – bone in extremities and oral reconstructive surgery

Chairs: Professor Peter Magnusson and Professor Per Hölmich

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| 15.45 – 16.10 | Medical treatment or exercise for bone health?
Professor Peter Schwarz, Dept Endocrinology, Rigshospitalet |
| 16.15 – 16.40 | Oral reconstructive surgery – what is the future (3D-prints, stem cells)?
MSc Casper Slots, Dept Oral and Maxillofacial Surgery, Odense University Hospital |
| 16.45 – 17.10 | Rehabilitation after joint replacement
Professor Thomas Bandholm, Dept Orthopedic Surgery, Hvidovre Hospital |
| 17.15-18.00 | PhD meeting (for all PhD students in the MUSKOS program) |

SYMPOSIUM 4 (auditorium C):

Cancer – does exercise play a role in prevention and treatment?

Chairs: Professor Janine Emler and Associate Professor Abigail Mackey

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| 15.45 – 16.10 | Can exercise protect against cancer development?
Associate Professor Pernille Højman, Center for Physical Activity Research (CFAS), Rigshospitalet |
| 16.15 – 16.40 | Beneficial effect of exercise upon cancer in humans
Professor Julie Gehl, Dept Oncology, Herlev-Gentofte Hospital |
| 16.45 – 17.10 | Physiological outcome of training in cancer patients
Senior Researcher Jesper Frank Christensen, Center for Physical Activity Research (CFAS), Rigshospitalet |
| 17.15-18.00 | Clinical Academic Group (CAG) board meeting |
| 19.00-21.30 | Dinner (including PhD CUP) (Hasselbalch's House) |
| 21.30- | Dance with live-music by "Horze" |

SATURDAY 9.DECEMBER

8.30 – 9.15

Key-note lecture:

Physical Activity: Skeletal muscle as a gene regulatory endocrine organ?

Professor Bente Klarlund Pedersen, Center for Physical Activity Research (CFAS), Rigshospitalet, Univ of Copenhagen

Chair: Professor Jørn Wulff Helge

9.20- 10.40

Free oral presentations from PhD students

<p>Auditorium A Chairs: Associate Professor Katja Heinemeier and Professor Flemming Dela (+ MA Thea Feveile Sejr Hansen)</p> <p>Presentations each 8+4 min</p> <p>The oral presentations are followed by feedback on the presentation technique (20 min) (MA Thea Feveile Sejr Hansen)</p> <p>9.20 – 9.32 Karen Lindhardt Madsen “Fat oxidation during exercise is limited in MADD, but glucose infusion improves exercise capacity”</p> <p>9.32 – 9.44 Kirsten Lykke Knak “Validity of Muscle Strength, Balance and Performance-Based Outcome Measures in Adult-Onset Myotonic Dystrophy Type 1 (aoDM1): A Cross-Sectional Study”</p> <p>9.44 – 9.56 Nicoline Løkken “Ketogenic diet in patients with McArdle disease”</p> <p>9.56 – 10.08 Anne-Sofie Agergaard “Treatment of patellar tendinopathy; Influence of load magnitude on clinical outcome, tendon structure and function”</p> <p>10.08 – 10.20 Nikolaj Mølkjær Malmgaard-Clausen “Treatment of early stage Achilles tendinopathy, the effect of NSAID”</p>	<p>Auditorium B Chairs: Associate Professor Clara Prats and Senior Researcher Peter Schjerling</p> <p>Presentations each 8+4 min</p> <p>The oral presentations are followed by feedback on the presentation technique (20 min)</p> <p>09.20 – 9.22 Adam E. M. Jørgensen “The spatial development of collagen in human knee cartilage from tibia”</p> <p>9.32 – 9.44 Antonios Giannopoulos “Mechanical forces in engineered tendon constructs”</p> <p>9.44 – 9.56 Cheng Zhang “Effect of diet and region-specific accumulation of AGEs in tendon”</p> <p>9.56 – 10.08 Andreas Ziegler “Muscle mass and inflammation in elderly: Effect of strength training upon local and systemic inflammation in humans”</p> <p>10.08 – 10.20 Julia Dahlqvist “MRI in patients with SBMA”</p>
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10.40 – 11.00

Coffee/tea break

SYMPOSIUM 5 (auditorium A):

Musculo-skeletal – sports injuries prevention, development and treatment

Chairs: Professor Thomas Bandholm and Associate Professor Kristian Thorborg

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| 11.00 – 11.25 | Is exercise dangerous for the groin region – how to prevent?
Professor Per Hölmich, Dept of Orthopedic Surgery, Hvidovre Hospital |
| 11.30 – 11.55 | Rehabilitation of ruptured Achilles tendon
Professor Peter Magnusson, Dept Physiotherapy, Bispebjerg Hospital |
| 12.00 – 12.25 | Treatment of knee injuries in sports
Professor Michael Krogsgaard, Dept of Orthopedic Surgery, Bispebjerg Hospital |

SYMPOSIUM 6 (auditorium B):

How to present results and write manuscripts – for PhD students

Chairs: Professor Bente Klarlund Pedersen and Professor Michael Kjær

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| 11.00 – 11.40 | How to present scientific results in an oral presentation?
MA (Rhetoric) Thea Sejr, CBS |
| 11.45 – 12.25 | Trips and tricks on writing a manuscript and applying for grant money
Professor Janine Eler, BRIC, Univ of Copenhagen |
| 12.30 – 13.15 | Lunch
(and separate board meeting Basic and Clinical Research in Musculo-skeletal and Oral Sciences) |