

The CIM and AMBEHR 2008 Ph.D.-Course: "Inflammation and Metabolism"

Monday April 21st – Friday April 25th 2008

Programme

Venue: Rigshospitalet, Section 7622 Tagensvej 20, entrance 76, 2nd floor, DK-2200 Cph N



Monday, April 21st: Insulin resistance: target genes, inflammatory markers, and clinical menifestations

12.00 – 12.30	Student registration and sandwiches
12.30 – 12.45	Welcome and Introduction. Post doc. Camilla Scheele
12.45 – 13.30	"Muscle as an endocrine organ?". Prof. Bente Klarlund Pedersen
13.30 – 14.15	"Clinical manifestations of insulin resistance". Prof. Allan Vaag
14.30 – 15.15	"Genetic epidemiology in type 2 diabetes and related disorders". Assoc. Prof. Paul Franks
15.30 – 16.15	"Key molecules in inflammatory diseases". Prof. Allan Randrup Thomsen
16.30 – 17.15	"The insulin signalling cascade and inflammation" Assist. Prof. John Thyfault
17.00 – 17.30	Introduction to project work
	Tutors: Prof. Frank Booth, Prof. Mark Febbraio, Assist. Prof. John Thyfault, Assoc. Prof. Matthew Watt, Post doc. Camilla Scheele
19.00 —	Student get-together



Tuesday, April 22nd: How to target the target molecules?

08.00 - 08.45	"Inflammation, metabolism, and cognitive function". Senior Researcher Helle Bruunsgaard
09.00 – 09.45	"Caloric restriction and aging" Prof. Richard Weindruch
10.00 – 10.45	"Central and peripheral metabolic effects of GIP and GLP-1". Senior Researcher Tina Vilsbøll
10.45 – 11.30	Coffee and group discussions
11.45 – 12.30	"Central and peripheral metabolic effects of the CNTF". Assoc. Prof. Matthew Watt
12.30 – 13.30	Lunch
13.30 – 14.15	Introduction to the afternoon workshops Assoc. Prof. Gerrit van Hall, Assoc. Prof. Bettina Mittendorfer, MD Christian Fischer, MD Kirsten Møller, MD Peter Plomgaard
14.30 — 17.00	Workshop – hands-on introduction to human experimentation
	 Stable isotopes Human in vivo inflammation models Invasive interventions, including biopsies, clamps, microdialysis, and catherization.
	Assoc. Prof. Gerrit van Hall, Assoc. Prof. Bettina Mittendorfer, MD Christian Fischer, MD Kirsten Møller, MD Peter Plomgaard

Dinner for students and teachers in Copenhagen

19.00 -



Wednesday, April 23rd: Adipokines

08.30 – 09.15	"Adipokines" Prof. Bjørn Richelsen
09.30 – 10.15	"Fatty acids from adipose tissue as a signal to the rest of the body". Prof. Fredrik Karpe
10.15 – 11.00	Coffee and group discussions
11.15 – 12.00	"Thrifty genes; from molecule to man". Prof. Frank Booth
12.00 -13.00	Lunch
13.00 – 13.45	Introduction to the afternoon workshops Assoc. Prof. Henriette Pilegaard, Post doc. Camilla Scheele
14.00 — 16.00	Workshop – hands-on introduction to metabolic assays in vitro. 1. Glucose uptake 2. AMPK activity 3. Gene expression analyses - qPCR and Western blot Assoc. Prof. Henriette Pilegaard, Post doc. Camilla Scheele
19.30 -	Speakers' dinner. No social events planned for the students.



Thursday, April 24th: Myokines

08.30 – 09.15	"Proteomics – limitations and potential". Prof. Matthias Mann
09.30 – 10.15	"IL-6 and energy balance". Cora Weigert
10.30 – 11.15	"gp 30 receptor ligands: new strategies to overcome therapeutic pitfalls". Prof. Mark Febbraio
11.30 – 12.15	"Central pathways in inflammation and metabolism". Prof. John-Olov Jansson
12.15 – 13.00	Lunch
13.00 – 16.00	Discussion groups / presentation of student projects
19.00 —	Course dinner for students and teachers



The 2^{nd} CIM Conference on Inflammation and Metabolism Friday, April 25^{th} 2008

Venue: The Haderup Auditorium,

Panum Institute, University of Copenhagen

Programme

08.30 - 09.00	Coffee and registration
09.00 - 09.15	Welcome. Prof. Bente Klarlund Pedersen
09.15 – 10.00	"Caloric restriction – metabolic and inflammatory consequences". Prof. Richard Weindruch
10.00 – 10.45	"Diurnal fatty acid delivery and metabolic flexibility". Prof. Fredrik Karpe
10.45 – 11.15	Coffee
11.15 – 12.00	"Interactions between the immune system and body fat." Prof. Jan-Olov Jansson
12.00 – 12.45	"Mass-spectrometry based proteomics to study muscle and fat". Prof. Matthias Mann
12.45 – 13.45	Lunch
13.45 – 14.30	"IL-6 in insulin resistance, body fat distribution and energy balance". Prof. Cora Weigert
14.30 – 15.15	"Molecular links between inflammation and metabolism". Prof. Mark Febbraio
15.15 – 15.30	Closure. Prof. Bente Klarlund Pedersen



Lecturers/speakers

Frank Booth

Professor, Departments of Biomedical Sciences and of Medical Pharmacology and Physiology, Dalton Cardiovascular Institute, University of Missouri, Columbia, USA

Helle Bruunsgaard

MD, PhD, DMSc, Centre of Inflammation and Metabolism, Rigshospitalet, Copenhagen, Denmark

Mark Febbraio

Professor of Cell Biology, Cellular and Molecular Metabolism Laboratory, Diabetes & Metabolism Division, Baker Heart Research Institute, Melbourne, Australia

Christian Fischer

Postdoctoral fellow, MD, PhD, Centre of Inflammation and Metabolism, Rigshospitalet, Copenhagen, Denmark

Paul Franks

PhD, MPhil, MS, BS (Hons), Docent/Associate Professor of Experimental Medicine Head, Genetic Epidemiology & Clinical Research Group, Dept. Public Health & Clinical Medicine, Division of Medicine, Umeå University Hospital, Sweden.

Gerrit van Hall

Associate Professor, dr.scient., Copenhagen Muscle Research Center and CIM, Rigshospitalet and University of Copenhagen, Denmark

John-Olov Jansson

Professor, Institute of Neuroscience and Physiology/Endocrinology, Sahlgrenska Academy at Gothenburg University, Sweden

Fredrik Karpe

Reader in Metabolic Medicine, Hon. Consultant Physician, Wellcome Trust Senior Clinical Research Fellow, Oxford Centre for Diabetes, Endocrinology and Metabolism, Nuffield Department of Clinical Medicine, University of Oxford, UK

Matthias Mann

Professor, Dr., Department of Proteomics and Signal Transduction, Max-Planck Institute for Biochemistry, Martinsried, Germany

Bettina Mittendorfer

Assistant Professor, PhD, Washington University School of Medicine, St Louis, USA.

Kirsten Møller

MD, DMSc, Dept Centre of Inflammation and Metabolism, Rigshospitalet, Copenhagen, Denmark

Bente Klarlund Pedersen

Professor, DMSc., Director, Centre of Inflammation and Metabolism, Rigshospitalet, and University of Copenhagen, Denmark



Henriette Pilegaard

Associate Professor, PhD, Centre of inflammation and Metabolism, Department of Biology, University of Copenhagen, Denmark

Peter Plomgaard

Postdoctoral fellow, MD, PhD, Centre of Inflammation and Metabolism, Rigshospitalet, Copenhagen, Denmark

Bjørn Richelsen

Professor, DMSc, Department of Medicine, Århus Hospital, Århus, Denmark

Camilla Scheele

MSc, Ph.D., Post doctoral fellow, Centre of Inflammation and Metabolism, Rigshospitalet, and University of Copenhagen, Denmark

Allan Randrup Thomsen

Professor in Experimental Virology, DMSc, Institute of Medical Microbiology & Immunology, University of Copenhagen, Denmark

John Thyfault

Assistant Professor, PhD, Departments of Nutritional Sciences/Internal Medicine and Harry S. Truman VA Hospital, University of Missouri, Columbia, USA

Allan Vaag

Professor, Chief Physician, Steno Diabetes Center, Copenhagen, Denmark

Tina Vilsbøll

Senior Researcher, MD, DMSc, Gentofte Hospital, Department of Internal Medicine F, University of Copenhagen, Denmark

Matthew Watt

Associate Professor, PhD, NHMRC RD Wright Fellow, Department of Physiology, Monash University, Clayton, Australia

Cora Weigert

Dr., PhD, Dept. Internal Medicine, Div. Endocrinology, Metabolism, Pathobiochemistry and Clinical Chemistry, University of Tübingen, Germany.

Richard H. Weindruch

Professor, PhD, Section of Geriatrics, Director of the Aging Research Group, Wisconsin Regional Primate Research Center, University of Wisconsin-Madison, USA.



The Ph.D.-Course / Conference on "Inflammation and Metabolism" is arranged by the Centre of inflammation and Metabolism (CIM) with the support of the Danish Academy of Muscle Biology, Exercise, and Health Research (AMBEHR) and the Faculty of Health Sciences, University of Copenhagen

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