

BIOCENTER OULU HIGHLIGHTS and BRAINSTORMING

Tentative PROGRAMME (changes possible)

Thursday, January 14, 2021

General Biocenter Oulu matters

12.00-12.10 Director Johannes Kettunen

Biocenter Oulu strategic research projects (short overview 15 min + 5 min discussion)

12.10-12.30 Gonghong Wei and Aki Manninen (FBMM)

Transcription factor cistromes decode prostate cancer risk loci

12.30-12.50 Justus Reunanen (FMED)

Secreted vesicles of the human intestinal microbiota in health and disease

12.50-13.10 Katri Pylkäs and Robert Winqvist (FMED)

Inherited breast cancer susceptibility: novel factors, cellular mechanisms and disease modelling

13.10-13.30 Johanna Myllyharju (FBMM)

Key enzyme regulators of the hypoxia response and collagen synthesis as therapeutic targets

5 min break

13.35-13.55 Lari Lehtiö (FBMM)

Structure, Function and Inhibition of Human ADP-ribosyltransferases

13.55-14.15 Petri Kursula (FBMM)

Structural biology of the formation and disease of the multilayered myelin membrane

14.15-14.35 Thomas Kietzmann (FBMM)

Cellular Compartments and New Molecules Interacting in Hypoxia-Signaling and Associated Diseases

5 min break

14.40-15.00 Risto Kerkelä and Juhani Juntila (FMED)

Genetic causes and molecular mechanisms of myocardial fibrosis

15.20-15.40 Peppi Karppinen (FBMM)

Cellular oxygen sensors and other 2-oxoglutarate-dependent enzymes as novel treatment targets for diseases

Open discussion

15.40-16.00 Future visions

Thursday, January 21, 2021

Biocenter Oulu strategic research projects (short overview 15 min + 5 min discussion)

12.00-12.20 Jouni J. Jaakkola and Maritta S. Jaakkola (FMED)

Molecular and environmental basis for asthma in a changing climate

12.20-12.40 Simo Hosio and Denzil Ferreira (ITEE - Faculty of information technology and electrical engineering)

ICON: Interventions and Contextual Understanding for Low Back Pain Research

12.40-13.00 Jukka Hakkola and Janne Hukkanen (FMED)

Environmental xenosensor PXR as a disease mechanism and therapeutic target in metabolic diseases

13.00-13.20 Lauri Eklund and Vesa Kiviniemi (FBMM and FMED)

Neuro-ocular clearance pathways - Mechanisms and clinical applications

5 min break

13.25-13.45 Mika Ala-Korpela and Johannes Kettunen (FMED)
Extensive molecular profiling of systemic metabolism to understand and prevent
cardiometabolic diseases

Coordinators' projects (short overview 15 min + 5 min discussion)

13.45-14.05 Lloyd Ruddock

14.05-14.25 Andre Juffer

14.25-14.45 Reetta Hinttala

5 min break

Biocenter Oulu emerging projects – (short overview 10 min + 5 min discussion)

14.50-15.05 Johanna Magga

Growth factor signaling in myocardial stress and fibrosis

15.05-15.20 Minna Patanen

SoftXMed: Soft X-ray spectromicroscopy for medical tissue samples

15.20-15.35 Salla Ruskamo

Molecular mechanisms of myelin related disorders

15.35-15.50 Terhi Tapiainen

Fetal microbiome and subsequent health in children

Open discussion

15.50-16.10 Future visions

Thursday, January 28, 2021

General Biocenter Oulu Core facility matters

12.00-12.10 Director Lauri Eklund

Biocenter Oulu Core facilities (15 min +5 min discussion)

12.10-12.30 André Juffer, Biocomputing and Bioinformatics

12.30-12.50 Katri Pylkäs, Biocenter Oulu Sequencing Center

12.50-13.10 Lari Lehtiö, Structural Biology

13.10-13.30 Ilkka Miinalainen, Electron Microscopy

5 min break

13.35-13.55 Reetta Hinttala, Transgenic and Tissue Phenotyping

13.55-14.15 Lloyd Ruddock, Proteomics and Protein Analysis

14.15-14.35 Aki Manninen, Virus Core Laboratory

14.35-14.55 Veli-Pekka Ronkainen, Light Microscopy

Open discussion

14.55-15.15 Development and needs