

# Frontiers <sup>OF</sup> Science

## AUTUMN SEMINARS 2019

### SEPTEMBER

**September 5<sup>th</sup>**

**IN PHARMACY AUDITORIUM**

**Prof. Jukka Corander, University of Oslo, Norway**

*How do bacterial populations evolve in reality?*

*Some answers and their applications to vaccine optimization*

**Host: Jaana Vuopio (jaana.vuopio@utu.fi)**

### OCTOBER

**October 3<sup>rd</sup>**

**Dr. Andrew South, Jefferson College of Life Sciences, USA**

*Signatures of mutation in squamous cell carcinoma*

**Host: Veli-Matti Kähäri (velkah@utu.fi)**

**October 10<sup>th</sup>**

**Prof. Yvan Saeys, Inflammation Research Center, VIB-UGent, Belgium**

*Machine learning challenges for single-cell omics data*

**Host: Tomi Suomi (tomi.suomi@utu.fi)**

**October 31<sup>st</sup>**

**Dr. Anne-Claude Gavin, EMBL, Germany**

*Lipid metabolism: connecting the dots*

**Host: Karolina Pavic (karolina.pavic@utu.fi)**

### NOVEMBER

**November 14<sup>th</sup>**

**Prof. Mark Sansom, Department of Biochemistry, University of Oxford, UK**

*Membrane protein interactions and function viewed by molecular simulations*

**Host: Parthiban Marimuthu (Parthiban.Marimuthu@abo.fi)**

**November 21<sup>st</sup>**

**Prof. Merja Penttilä, VTT Technical Research Centre of Finland, Finland**

*Synthetic biology – powering bioeconomy*

**Host: Paula Mulo (pmulo@utu.fi)**

**November 28<sup>th</sup>**

**Prof. Ingunn Holen, Department of Oncology and Metabolism, University of Sheffield, UK**

*Tumour cell dormancy in bone - role in breast cancer relapse*

**Host: Kaisa Ivaska (kakaiv@utu.fi)**

### DECEMBER

**December 12<sup>th</sup>**

**Prof. Cecilia Sahlgren, Åbo Akademi University, Finland**

*Mechanics and mechanisms of vascular tissue architecture and homeostasis*

**Host: Jyrki Heino (jyheino@utu.fi)**

**ORIGINAL IMAGE BY GUILLAUME JACQUEMENT**

*Primary Rat hippocampal neuron stained for actin (green) Dapi (blue) and MAP2 (purple).*

**FURTHER INFORMATION**

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**TURKU BIONET SEMINAR CALENDAR**

<https://www.biocity.turku.fi>

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**FRONTIERS OF SCIENCE SEMINARS ORGANISED BY BIOCITY TURKU RESEARCH PROGRAMMES**

*Advanced Bioresources and Smart Bioproducts – Towards Sustainable Bioeconomy; Biomaterial and Medical Device Research Programme; Computational and Molecular Methodologies for Life Sciences; Diagnostic Technologies and Applications; Lifespan of Cardiovascular, Inflammatory, Endocrine & Metabolic Disorders - LIFESPAN; Receptor Programme; Translational Infectious Disease and Immunity Research Programme*

**AND BY DOCTORAL PROGRAMMES**

*Doctoral Programme in Biology, Geography and Geology (BGG, UTU); Doctoral Programme in Clinical Research (DPCR, UTU); Doctoral Programme in Molecular Life Sciences (DPMLS, UTU); Drug Research Doctoral Programme (DRDP, UTU); Finnish Doctoral Program in Oral Sciences (FINDOS, UTU); National Doctoral Programme in Informational and Structural Biology (ISB, ÅAU); Turku Doctoral Network in Molecular Biosciences (MolBio, ÅAU); Turku Doctoral Programme of Molecular Medicine (TuDMM, UTU)*