

# Frontiers<sup>OF</sup> Science



## AUTUMN SEMINARS 2012

ON THURSDAYS AT 12.00

### SEPTEMBER

**Thursday, September 6 at 12.00,  
 Frontiers of Science seminar**

Prof. Andreas Trumpp, Division of Stem Cells and Cancer, Deutsches Krebsforschungszentrum (DKFZ), Germany:  
*"Circulating metastasis-initiating cells in breast cancer"*  
 Host: Claire Hyder (chyder@btk.fi)

**Thursday, September 13 at 12.00,  
 Frontiers of Science seminar**

Prof. Guido Jenster, Erasmus Medical Centre, The Netherlands:  
*"Prostate cancer: stories from messy and scrambled genomes"*  
 Host: Matthias Nees (matthias.nees@vtt.fi)

**Thursday, September 20 at 12.00,  
 Frontiers of Science seminar**

Prof. Holger Bastians, Department of Molecular Oncology, University Medical Center, Georg-August University Göttingen, Germany:  
*"Mitotic signaling pathways: maintenance of genome stability and target for anti-cancer therapy"*  
 Host: Marko Kallio (marko.kallio@vtt.fi)

**Thursday, September 27 at 12.00,  
 Frontiers of Science seminar**

Dr. Brian C. Freeman, University of Illinois, Urbana-Champaign, USA:  
*"Modulation of protein-DNA dynamics and open chromatin status"*  
 Host: Lea Sistonen (lea.sistonen@abo.fi)

### OCTOBER

**Thursday, October 4 at 12.00,  
 Frontiers of Science seminar**

Prof. James Bliska, Department of Molecular Genetics and Microbiology, Stony Brook University, USA:  
*"Regulation of host innate and adaptive immunity by Yersinia type III secreted effectors"*  
 Host: Riitta Lahesmaa (riitta.lahesmaa@btk.fi)

**Thursday, October 25 at 12.00,  
 Frontiers of Science seminar**

Prof. Forest M. White, Mitsui Career Development Associate Professor of Biological Engineering, Massachusetts Institute of Technology, USA:  
*"Connecting genetics and phenotype with quantitative analysis of signaling networks"*  
 Host: Garry Corthals (garry.corthals@btk.fi)

### NOVEMBER

**Thursday, November 8 at 12.00,  
 Frontiers of Science seminar**

Dr. Vanessa Sperandio, Department of Microbiology, UT Southwestern Medical Center, USA:  
*"Inter-kingdom chemical signaling in host/bacterial associations"*  
 Host: Riikka Ihalin (riikka.ihalin@utu.fi)

**Thursday, November 15 at 12.00,  
 Frontiers of Science seminar**

Prof. Adrian Goldman, Institute of Biotechnology, Helsinki:  
*"Structure and function of membrane-bound pyrophosphatases: a novel class of primary ion pump"*  
 Host: Reijo Lahti (reijo.lahti@utu.fi)

**Thursday, November 22 at 12.00,  
 Frontiers of Science seminar**

Prof. Robert Winqvist, Laboratory of Cancer Genetics and Tumor Biology, Department of Clinical Genetics and Biocenter Oulu, University of Oulu and Oulu University Hospital:  
*"New discoveries in genetic predisposition to breast cancer"*  
 Host: Matti Poutanen (matti.poutanen@utu.fi)

**Thursday, November 29 at 12.00,  
 Frontiers of Science seminar**

Dr. Bruno Goud, Institut Curie, France:  
*"Rab GTPases and actin-based motors: their interactions in normal and cancer cells"*  
 Host: Johanna Ivaska (johanna.ivaska@vtt.fi)

### DECEMBER

**Thursday, December 13 at 12.00,  
 Frontiers of Science seminar**

Prof. Reinhold Förster, Hannover Medical School, Germany:  
*"How do lymphocytes and dendritic cells know where to go?"*  
 Host: Sirpa Jalkanen (sirjal@utu.fi)

**ORIGINAL IMAGE BY** Joel Nyström (Diana Toivola lab):  
**Monocarboxylate transporter 1 (MCT1) expression in absorptive colonocytes.**  
 MCT1 is a H<sup>+</sup>-coupled, electroneutral, and bi-directional transporter which mediates transport across the plasma membrane of many monocarboxylates such as lactate, purvate and short chain fatty acids, as well as the ketone bodies acetate, acetoacetate and  $\beta$ -hydroxybutyrate. MCT1 (green) was shown to be located in the basolateral membrane of absorptive epithelial colonocytes in FVB/n mice. Visualization of the colonic structure was obtained by staining for F-actin (red) and nuclei (blue).

**FRONTIERS OF SCIENCE SEMINARS ORGANISED BY**  
 Biomaterials Research, Centre for Reproductive and Developmental Medicine, Diagnostic Technologies and Applications, Receptor Program, Turku Centre for Systems Biology, Program for Infection Biology and Infectious Diseases, Doctoral Programmes participating in Turku BioNet

**FURTHER INFORMATION**  
 Tel + 358 2 333 8042  
 E-mail: biocityturku@btk.fi  
 www.biocity.turku.fi

**TURKU BIONET SEMINAR CALENDAR**  
<http://www.biocity.turku.fi>