BIOCENTER OULU DOCTORAL PROGRAMME ADVANCED COURSE

Proteins and Peptides – *Properties, methods and applications*

Spring 2012

Place Lectures: Linnanmaa Campus lecture halls (varies; see the map of the Linnanmaa campus at http://www.oulu.fi/dokumentit/kartat/Linnanmaa_pohjapiirros.pdf) or Medical Campus lecture (halls F202 Dept of Pharmacology & Toxicology, or A101 Dept of Anatomy and Cell Biology). Discussion Groups: Dept of Biochemistry Meeting Room BK226 or BCO Meeting Room 487B, Kieppi Building, Aapistie 5A (Main Building of the Medical Campus).

Time Tuesday afternoons at 14.15 (Exception: Monday May 14). Discussion group sessions start about 10 minutes after the lecture has finished.

Form Lecture course, 2 ECTS Study Credits

Requirements Validation of the course requires attending at least 8 lectures (involving suggested readings) and at least one discussion group.

Registration Required for the study credit units only. Send e-mail to Ritva Saastamoinen by February 21, indicating your name, the suggested speaker for your discussion group, your Department, Research Group and Principal Supervisor.

Information Ritva Saastamoinen, tel. (08) 537 6102, e-mail: ritva.saastamoinen(at)oulu.fi and http://www.biocenter.oulu.fi/

Transportation There will be bus transportation between Linnanmaa and Kontinkangas. The bus leaves from in front of the Kieppi Building, Aapistie 5A at 13.55 pm (20 minutes before the scheduled beginning of the lecture) and returns after the lecture from Door J on the Linnanmaa campus back to the Kontinkangas campus (leaving, at 15.55 pm), or vice versa.

PRELIMINARY PROGRAMME

Date	Place and host	Speaker	*Title of the lecture*
February 28	Kontinkangas Lecture hall A101 *Host: Taina Pihlajaniemi*	**David Hulmes** Institute of Protein Biology and Chemistry, Lyon, France	*Structural insights into the regulation of matrix assembly and associated tissue disorders*
March 13	Linnanmaa Lecture hall YB210 *Host: Rik Wierenga*	**Jan Steyaert** Structural Biology Brussels, Vrije Universiteit Brussel, Belgium	*Structural investigation of GPCR transmembrane signaling by use of Nanobodies*
March 27	Kontinkangas Lecture hall F202 *Host: Karl-Heinz Herzig*	**Jurgen Eckel** Paul-Langerhans-Group, German Diabetes Center, Duesseldorf, Germany	*Adipokines, myokines and the bi-directional fat – muscle crosstalk*
April 3	Kontinkangas Lecture hall ? *Host: Gonghong Wei*	**Jianmin Wu** Cancer Bioinformatics, Cancer Research Program, Garvan Institute of Medical Research, Australia	*Understanding protein function through biological networks*
April 17	Linnanmaa Lecture hall YB210 *Host: André Juffer*	**Mauno Vihinen** Department of Experimental Medical Science, Lund University, Sweden	*Effects of variations on protein structures and diseases*
April 24	Linnanmaa Lecture hall L10 *Host: Lari Lehtiö*	**Bernhard Lüscher** Institut für Biochemie und Molekularbiologie Universitätsklinikum RWTH, Aachen University, Germany	*Function and regulation of protein ADP-ribosylation*
May 8	Linnanmaa Lecture hall TA105 *Host: Lloyd Ruddock*	**Robert Freedman** School of Life Sciences, University of Warwick, UK	*How proteins form disulphide bonds (and how science has changed in the 50 years since the Anfinsen experiment)*
May 14 (Monday!)	Kontinkangas Lecture hall ? *Host: Seppo Vainio*	**Harald Mischak** Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK	*TBA; field: Peptide fingerprinting, diagnostics and biomarker discovery in body fluids*
May 15	Linnanmaa Lecture hall YB210 *Host: Petri Kursula*	**Anne Ulrich** Karlsruhe Institute of Technology, Karlsruhe, Germany	*TBA; field: Structure and function of membrane-binding peptides*
May 22	Linnanmaa Lecture hall YB210 *Host: André Juffer*	**Mark Johnson** Department of Biosciences, Biochemistry, Åbo Akademi University, Turku, Finland	*Seeking certainty from the modeling of proteins and their ligand complexes*
May 29	Linnanmaa Lecture hall YB210 *Host: Ulrich Bergmann*	**Chuna Ram Choudhary** Department of Proteomics, NNF Center for Protein Research, Faculty of Health Sciences, University of Copenhagen, Denmark	*Decoding cell signaling networks using quantitative proteomics*