

**BioCity Turku**  
**Frontiers of Science Seminars**

Organised by  
Center for Reproductive and Developmental Medicine  
Diagnostic Technologies and Applications  
Systems Biology Research Program  
Turku Immunology Centre  
Biomaterials Research  
Receptor Program

- 6.11.1998 Dirk Bohman, European Molecular Biology Laboratory, Heidelberg  
9.12.1998 Walter Schaffner, Institut für Molekularbiologie, Zurich  
9.4.1999 Fiona Watt, Imperial Cancer Research Fund, London, UK. Role of cell adhesion molecules in regulating epidermal stem cell fate  
18.6.1999 Erwin F. Wagner, Research Institute of Molecular Pathology (IMP) Vienna, Austria. Functions of AP-1 (Fos/Jun) in cell proliferation, differentiation and cell death  
1.10.1999 Leena Palotie, UCLA Department of Human Genetics Gonda Neuroscience and Genetics Research Center. Lessons from disease genes: monogenic and complex diseases in Finnish population  
5.11.1999 Rauno Alatalo, Department of Biological and Environmental Sciences, University of Jyväskylä. Paradoxes in the evolution of signals - the cases of the aposematic warning signals and the sexual ornaments  
26.11.1999 Mårten Wikström, University of Helsinki. Respiratory enzyme: a molecular machine  
17.12.1999 Ian J. Molineux, University of Texas. Molecular motors and viral DNA entry into cells  
14.1.2000 Leena Ala-Kokko, University of Oulu: Cartilage collagens: from rare to common diseases  
27.1.2000 Hans Söderlund, VTT Biotechnology: Protein engineering: directed evolution  
3.2.2000 Tarik Möröy, Institut für Zellbiologie, Universitätsklinikum Essen: Gfi-1 and Pim-1: new hints about their role in oncogene cooperation  
10.2.2000 Alan Hall, MRC Laboratory, London: Ras and Rho GTPases promote co-ordinated biological responses  
24.2.2000 Hinrich Gronemeyer, Research Director, INSERM IGBMC, Strasbourg: Nuclear receptors: From structure to function and apoptosis  
9.3.2000 Irma Thesleff, Developmental Biology Programme, Institute of Biotechnology, Viikki Biocenter: Signalling networks regulating embryonic organ development  
17.3.2000 Karl Tryggvason, Division of Matrix Biology, Department of Medical Biochemistry and Biophysics, Karolinska Institute, Stockholm: Molecular nature of the kidney filter  
23.3.2000 Jan Vilcek, Department of Microbiology, New York University Medical Center: Tumor necrosis factor: Intracellular signaling and roles in pathogenesis, including rheumatoid arthritis and Crohn's disease  
29.3.2000 Robert Eisenman, FHCRC, Seattle: How the Myc Transcription Factor network regulates cell behaviour  
6.4.2000 Arnoud Sonnenberg, Netherlands Cancer Institute, Amsterdam: The integrin  $\alpha 6 \beta 4$ , a key regulator of hemidesmosome assembly  
27.4.2000 Leevi Kääriäinen, Institute of Biotechnology, University of Helsinki: Membrane binding of Semliki Forest virus replication complex  
11.5.2000 Arthur Ouwehand, University of Turku, Department of Biochemistry and Food Chemistry: Functional foods and intestinal health  
8.6.2000 Hideaki Nagase, Imperial College, London. Matrix Metalloproteinases and TIMPs: Structure, Function and Pathobiological Implications  
7.9.2000 Lorenz Poellinger, Department of Cell and Molecular Biology, Karolinska Institutet, Stockholm. Mechanism of signal transduction in hypoxic cells.  
14.9.2000 Martin Raff, University College, London. Cell number control and timing in neural development.

21.9.2000 Olivier Bensaude, INSERM, Paris, Phosphorylation of the carboxy-terminal domain (CTD) of RNA polymerase II. A general control of gene expression.

12.10. 2000 Ilkka Hanski, University of Helsinki. Do species survive in fragmented landscapes?

19.10.2000 Heikki Rauvala, Viikki Biocenter, Department of Biosciences and Institute of Biotechnology. Mechanisms of neuronal development: from growth cone migration to invasive migration of tumour cells.

9.11.2000 Marikki Laiho, Haartman Institute, Department of Virology. Cell cycle regulation by TGF- $\beta$ .

16.11.2000 Oleg Shupliakov, Associate professor, Department of Neuroscience, Karolinska Institutet. Molecular mechanisms of clathrin-mediated endocytosis in a living synapse

23.11.2000 Juhani Jänne, University of Kuopio, A.I. Virtanen Institute. Activation of polyamine catabolism in transgenic mice and rats

30.11.2000 Marja Makarow, University of Helsinki, Institute of Biotechnology. Chaperone-supervised conformational repair of misfolded proteins.

30.11. Eric Lagasse, StemCells, Inc., USA. Hematopoietic stem cells giving rise to hepatocytes.

14.12.2000. Anne Eichmann, Institut d'Embryologie Cellulaire et Moléculaire du CNRS et du Collège de France. Receptors in vascular development

18.1.2001 Leif Groop, University of Lund: Dissection of the genetic complexity of type 2 diabetes.

25.1.2001 Hannu Sariola, Institute of Biotechnology, University of Helsinki. GDFN functions from spermatogenesis to drug addiction.

29.1.2001 Ulrich von Andrian, Harvard University, Boston, USA: In vivo analysis of leukocyte migration.

2.2.2001 Alar Karis, Department of Integrative Zoology, University of Tartu The role of transcription factor GATA3 during development.

15.2.2001 Mart Saarma, Institute of Biotechnology, University of Helsinki: Biology and signalling of the glial cell line -derived neurotrophic factor. AND Andreas Radbruch, Deutsches Rheuma-Forschungszentrum Berlin (DRFZ): Cytokine memory in Th lymphocytes.

1.3.2001 Herbert Zimmermann, BioCentrum, Neurochemie, Frankfurt. Extracellular nucleotides: Their role in cell signaling, with particular emphasis on their metabolism.

8.3.2001 Nancy Hynes, Friedrich Miescher Institute, Basel, Switzerland: Role of the EGF/ErbB family of tyrosine kinase receptors in breast cancer development and as specific therapeutic targets.

22.3.2001 Guri Tzivion, Cardiovascular Research Institute, College of Medicine, The Texas A&M university System: 14-3-3 proteins; new players in the regulation of serine/threonine-phosphorylated proteins.

29.3.2001 Antal Rot, Novartis, Wien, Austria: Chemokines and endothelium.

5.4.2001 John Sgouros, The ICRF Computational Genome Analysis Laboratory. The use of internet databases in Bioinformatics - a live demonstration.

19.4.2001 Ineke Braakman, Department of Bio-Organic Chemistry, University of Utrecht, Netherlands: Folding and disulfide bond formation of glycoproteins in the ER.

26.4.2001 J.X. She, Department of Pathology, Immunology and Laboratory Medicine, University of Florida, Gainesville, USA. Global gene expression profiling by microarray: opportunities and challenges. AND Jurg Tschopp, Institute of Biochemistry, University of Lausanne. Death signalling in lymphocytes.

3.5.2001 Markku Mäki, Institute of Medical Technology, University of Tampere. Small bowel mucosal crypt-villus axis: From coeliac disease clinics to biology.

10.5.2001 Yosef Yarden, Department of Biological Regulation, The Weizmann Institute of Science: Signaling by oncogenic receptor tyrosine kinases: therapeutic opportunities.

17.5.2001 Toshi Kawakami, La Jolla Institute for Allergy & Immunology. Allergy, how it gets worse.

31.5.2001 Hans Wigzell, Karolinska Institutet, Stockholm, Sweden: Surprises when analyzing the immune response against Chlamydia.

14.6.2001 Joseph Lam, University of Guelph, Ontario, Canada. Lipopolysaccharide of *Pseudomonas aeruginosa* and lung infections of Cystic Fibrosis patients.

6.9.2001 Malcolm E. Finbow, Department of Biological and Biomedical Sciences, Glasgow Caledonian University: Cells on the Internet 1 billion years BC: the metamorphosis of a proton pump to a gap junction channel

20.9.2001 Juha Partanen, Institute of Biotechnology, University of Helsinki: FGF signalling & patterning of the mouse embryo.

27.9.2001 Bart O. Roep, Diabetes Research, Leiden University Medical Centre, Netherlands: The use of microarrays to define autologous and environmental factors in type 1 diabetes.

4.10.2001 Jorma Keski-Oja, Department of Pathology, University of Helsinki: Latent TGF-beta binding proteins. Structure, interactions and new functions.

11.10.2001 Juhani Leppä: Turun kaupungin biosuunnitelmista.

18.10.2001 Dirk G. de Rooij, Department of Cell Biology, University Medical Center Utrecht: Isolation, culture, transfection and transplantation of mouse and bovine spermatogonial stem cells.

22.10.2001 Paolo Sassone-Corsi, Institut de Genetique et de Biologie Moléculaire et Cellulaire, Illkirch: Signal transduction mechanisms modulating nuclear functions.

25.10.2001 Olli Jänne, University of Helsinki: Androgen receptor signalling.

1.11.2001 Ammasi Periasamy, W.M. Keck Center for Cellular Imaging, University of Virginia, Department of Biology, Gilmer, Quantitation of Protein Interactions in Living Cells using One- and Two-photon Excitation FRET Microscopy.

5.11.2001 Ian Frazer, Center for Immunology and Cancer Research, The University of Queensland, Princess Alexandra Hospital, Brisbane, Australia: Codon modification as a means to target gene therapy and improve polynucleotide vaccines.

7.11.2001 Massimo Tomassino, German Cancer Research Center, Heidelberg: How the human papillomavirus oncoproteins deregulate cell cycle checkpoints.

15.11.2001 Arthur Ouwehand, University of Turku: Probiotics - a review.

22.11.2001 Kalervo Hiltunen, University of Oulu: Fatty acyl thioesters in eukaryotic cells: metabolism and structural enzymology.

13.12.2001 Stephen Holgate, RCMB Research Division, Southampton General Hospital: Activation of the epithelial mesenchymal trophic unit in the pathogenesis of asthma: the role of tissue specific susceptibility genes.

10.1.2002 Malcolm Parker, Institute of Reproductive and Developmental Biology, Imperial College, Faculty of Medicine, London: Role of Coactivators and Corepressors for Steroid Hormone Receptors in Reproduction

17.1.2002 Howard Jacobs, Department of Molecular Biology, Institute of Medical Technology, University of Tampere: Disorders of mitochondrial DNA maintenance and expression

24.1.2002 Keith Parker, Department of Internal Medicine and Pharmacology, University of Texas, Southwestern Medical Center, Dallas, USA: Steroidogenic Factor 1: a key mediator of reproduction

31.1.2002 René Bernards, Division of Molecular Carcinogenesis, The Netherlands Cancer Institute, Amsterdam: Functional identification of novel components of the Rb and p53 tumor suppressor pathways

7.2.2002 Johanna Vilkkii, Agricultural Research Centre, Jokioinen. Genomewide scans in livestock - homing in on the genes

14.2.2002 Pekka Lappalainen, Institute of Biotechnology, University of Helsinki: Regulation of cytoskeletal dynamics in yeast and animal cells by small actin-binding protein, twinfilin

21.2.2002 Heikki Kallio, University of Turku, Department of Biochemistry and Food Chemistry: Functional Foods Forum.

28.2.2002 Paul A. Kelly, INSERM, Endocrinologie Moléculaire, Faculté de Médecine Necker Prolactin and growth hormone signaling and actions: lessons from receptor knockouts

7.3.2002 Maija Palonheimo: University of Turku Communication Strategy  
Olli-Pekka Kallioniemi, Cancer Genetics Branch, National Human Genome Research Institute, National Institute of Health: Novel biochip technologies in gene target identification and validation.

14.3.2002 Paul A. Fowler, Department Of Obstetrics & Gynaecology, Foresterhill, University of Aberdeen: Conversation between the ovary and the pituitary

21.3.2002 Siamon Gordon, GlaxoWellcome Professor of cellular Pathology, Sir William Dunn School of Pathology, University of Oxford: Pathogen receptors of macrophages

4.4.2002 Richard Santen, University of Virginia, Internal Medicine, Division of Endocrinology and Metabolism: Role of the Plasma Membrane Estrogen Receptor in the Growth of Breast Cancer Cells

11.4.2002 Elina Ikonen, Department of Molecular Medicine, National Public Health Institute, Biomedicum Helsinki: Cholesterol transport in mammalian cells

18.4.2002 Catharina Svanborg, University of Lund, Department of Microbiology, Immunology and Glycobiology: HAMLET - a protein folding variant that induces apoptosis in tumour cells

25.4.2002 Sandra Pellegrini, Laboratory of Cytokine Signaling, Department of Immunology, Pasteur Institute: Structure-function studies of Tyk2: its role in interferon- $\alpha/\beta$  receptor expression and activation

2.5.2002 Marko Kallio, University of Oklahoma, Health Sciences Center, Department of Cell Biology: More than chromosomal passengers; new evidence of mitotic roles for Aurora-B kinase and Survivin

3.5.2002 Raghu Kalluri, Harvard Medical School, Boston, MA, USA: Regulation of Angiogenesis by Vascular Basement Membranes and Integrins

7.5.2002 Steven Pals, Department of Pathology, Academic Medical Center, Amsterdam: Hepatocyte growth factor and its receptor in malignant transformation.

16.5.2002 Beat A. Imhof, Department of Pathology, Medical Research Unit, University of Geneva: Novel vascular molecules in leukocyte transmigration

23.5.2002 Margaret Stanley, Department of Pathology, University of Cambridge, UK: Genetic changes in HPV immortalised keratinocytes and progression in cervical neoplasia.

30.5.2002 Leslie Kozak, Pennington Biomedical Research Center, Los Angeles: QTL and microarray analysis of mRNA expression during induction of brown adipocyte differentiation

6.6.2002 Kristiina Vuori, La Jolla Cancer Research Center, The Burnham Institute: Signal transduction by integrins.  
Guido Tarone, University of Torino: Melusin and integrin function in muscle

3.9.2002 David G. Nicholls: Studying Mitochondrial Function in Intact Neurons

12.9.2002 Kari Keinänen: Molecular Anatomy of Ionotropic Glutamate Receptors

19.9.2002 Thomas Herdegen, University of Kiel: c-Jun N-terminal Kinases – Mediators of Neurodegeneration

3.10.2002 Günther Schütz, German Cancer Research Center, Heidelberg, Germany: Genetic dissection of glucocorticoid and mineralocorticoid receptor function in mice

25.10.2002 Dylan Edwards, University of East Anglia, UK: Expression profiling of proteases in human cancers

31.10.2002 Peter Herrlich, University of Karlsruhe, Germany: CD44 and ERM proteins in the regulation of tumor invasiveness

7.11.2002 Hans-Gustaf Ljunggren, Karolinska Institutet, Huddinge Hospital, Stockholm: Biological function and molecular specificity of NK cells

21.11.2002 Taina Pihlajaniemi, University of Oulu: Diverse roles of the endostatin precursor, type XVIII collagen, and its homologue, type XV collagen

5.12.2002 Tom Carey, Kresge Hearing Research Institute: Understanding and overcoming drug resistance in head and neck cancer

19.12.2002 Patrizio Blandina, University of Firenze: Histamine and Memory: Effects and Possible Mechanisms.

4.2.2003 Guri Tzivion, Cardiovascular Research Institute, College of Medicine, The Texas A&M University System: Development of raf inhibitors based on new insights of raf regulation by phosphorylation and protein interactions

27.2.2003 Donald Gullberg, University of Uppsala:  $\alpha 11\beta 1$  – a multifunctional integrin in search of in vivo function.

13.3.2003 William Agace, University of Lund: Involvement of chemokines in T lymphocyte homing to the intestinal mucosa.

14.3.2003 Yoshitake Nishimune, Department of Science for Laboratory Animal Experimentation, Research Institute for Microbial Diseases, Osaka University: Testicular stem cells

20.3.2003 Manuel Palacín, University of Barcelona: Heterodimeric aminoacid transporters and inherited aminoacidurias

27.3.2003 Josef Bodor, Boston University School of Medicine: Suppression of T cell function: role for transcriptional repressor ICER

3.4.2003 Theresa A. Guise, University of Virginia: Molecular mechanisms of osteoblastic bone metastases: role of endothelin-1

John M. Chirgwin, University of Virginia: Osteoprotegerin: unanticipated intracrine signaling effects in bone metastasis

7.4.2003 Gregory R. Mundy, University of Texas Health Science Center at San Antonio: Effects of statins and other new anabolic agents on bone

23.4.2003 Guido Sauter, University of Basel: Tissue microarray technology for clinical cancer research

24.4.2003 Rikard Holmdahl, University of Lund: Genetics of Arthritis

8.5.2003 Rik Wierenga, University of Oulu: Structural enzymological studies of thiolases

Christian Kurts, University of Bonn: Function of renal dendritic cells

15.5.2003 George Orphanides, Syngenta Central Toxicology Laboratory: The transcriptional programme associated with the action of estrogen in the mouse uterus

22.5.2003 Pasi Kankaanpää, Jyväskylän yliopisto: 4d-imaging of living cells by confocal microscopy

3.6.2003 Kenneth Lundström, BioXtal, Switzerland: Semliki forest virus vectors: from receptor expression to neurobiology and gene therapy

5.6.2003 Jussi Taipale, Johns Hopkins University, School of Medicine, Department of Molecular Biology and Genetics: Hedgehog Receptor Function

10.6.2003 Lynda F. Bonewald, Univ. of Missouri at Kansas City, School of Dentistry, Dept. of Oral Biology, Dept. of Biological Sciences: Osteocyte Targeting and Regulation of Osteoclast Activity

12.6.2003 Valerie Mezger, Laboratoire de Biologie Moléculaire du Stress, Ecole Normale Supérieure, Paris: Implication of mouse heat shock factor 2 in brain development

4.9.2003 Ueli Aebi, Biozentrum, Basel: Structural dissection of nuclear pore function and nucleocytoplasmic transport

9.9.2003 Omid Khorram, Harbor-UCLA Medical Center: Identification and characterization of a luciferase-like protein in humans

11.9.2003 Leslie P. Kozak, Pennington Biomedical Research Center: QTL (Quantitative Trait Locus) and microarray analysis of mRNA expression during induction of brown adipocyte differentiation.

18.9.2003 Achsa D. Keegan, Immunology Department, Holland Laboratory, American Red Cross, LA: Regulation of STAT6 Activation

25.9.2003 Jouni Uitto, Philadelphia, PA, USA: Molecular genetics of the cutaneous basement membrane zone.

2.10.2003 Håkan Wennbo, University of Gothenburg: Prostate hyperplasia in prolactin overexpressing mice

9.10.2003 Heikki Ruskoaho, University of Oulu: GATA4 and the Adaptive Cardiac Response

16.10.2003 Marie-Claire Orgebin-Crist, Department of Obstetrics & Gynecology, Center for Reproductive Biology Research, Vanderbilt University School of Medicine, Nashville, TN: Epididymal Lipocalins: Structure, Function, and Evolution

23.10.2003 Carsten Carlberg, University of Kuopio: Mechanisms of gene regulation by nuclear receptors

28.10.2003 Kenneth S. Korach, Laboratory of Reproductive & Developmental Toxicology National Institute of Environmental Health Sciences, NIH: Estrogen receptors: structure, mechanisms and function

19.11.2003 George Patterson, Cell Biology and Metabolism Branch, NICHD, NIH: Development and Use of a Photoactivatable Green Fluorescent Protein

27.11.2003 Michael Hengartner, University of Zürich: Apoptosis from worms to wombats

18.12.2003 Dennis J. Thiele, Duke University Medical Center: Genome Wide And Biochemical Analysis Of Stress Responses Through Heat Shock Transcription Factors

Costantino Pitzalis, GKT School of Medicine, London: Regulation Of Leukocyte Adhesion By Glucocorticoids And Novel Strategies Using Phage Display Technology

4.3.2004 Walter Low, Biology Department, Imperial College of Science, London: Crossing boundaries: novel cell permeable peptides and proteins for basic research and therapy

11.3.2004 Randall Johnson, Molecular Biology Section, Division of Biological Sciences, UC San Diego: Hypoxic response and physiology: a genetic analysis

18.3.2004 Tomi Mäkelä, Molecular Cancer Biology Program & Institute of Biomedicine, University of Helsinki: From mouse model to clinical trials in Peutz-Jeghers syndrome caused by mutations in the Lkb1 tumor suppressor kinase.

25.3.2004 Eila Cedergren-Zeppezauer, Molecular Biophysics, Lund University: Novel mechanistic aspects on Zn-dependent medium chain dehydrogenases/reductases

1.4.2004 In vivo imaging of animal models for drug discovery and action: Uwe Haberkorn, Department of Nuclear Medicine, University of Heidelberg and Clinical, Cooperation Unit, Nuclear Medicine, German Cancer Research Center, Heidelberg: In vivo imaging of gene regulation by PET

Adriana Maggi, Centre of Excellence on Neurodegenerative Diseases and Institute of Pharmacological Sciences, Milan University: In vivo imaging of transcriptionally active estrogen receptors.

15.4.2004 Claes Ohlsson, Department of Internal Medicine, Sahlgrenska University Hospital: Sex steroid regulation of bone metabolism

22.4.2004 The European Bioinformatics Institute/MSD (Macromolecular Structure Database) Roadshow

29.4.2004 Gunter Schneider, Karolinska Institutet: Structural genomics - the future of structural biology

6.5.2004 Ken Murphy, Howard Hughes Medical Institute Washington University School of Medicine: Balancing tolerance and immune responses: an update on BTLA

13.5.2004 John J. O'Shea, National Institute of Arthritis, Musculoskeletal and Skin Diseases, National Institutes of Health: Cytokine signaling - basic and clinical implications

27.5.2004 Peter Leung, Department of Obstetrics and Gynecology University of British Columbia: Multi-faceted role of GnRH-I and GnRH-II in reproduction

16.6.2004 Jay A. Nelson, Ph.D. Professor & Director (Vaccine & Gene Therapy Institute Oregon Health & Sciences University, Portland OR), Molecular Mechanisms of Human Cytomegalovirus Pathogenesis

17.6.2004 Joaquin Teixidó, Centro de Investigaciones Biológicas, Department of Immunology: Roles for chemokines in tumor cell invasion

23.9.2004 Tarik Mörröy, Institut für Zellbiologie (Tumorforschung), Universitätsklinikum Essen: The zinc finger protein Gfi1 regulates hematopoietic cell differentiation and lineage commitment by gene silencing

30.9.2004 John Cidlowski, NIH/NIEHS: Cellular and Molecular Mechanisms Repressing Apoptosis or How We Keep Death Machines Turned Off

Paul Bowness, Institute of Molecular Medicine, Oxford: HLA B27 in health and disease

28.10.2004 Staffan Strömblad, Karolinska Institutet: Role of integrins in cell survival and motility

4.11.2004 Johannes Eble, University of Muenster: Agonist and snake venom-derived antagonists of collagen- and laminin-binding integrins

11.11.2004 Olli Carpén, University of Turku: Functions and disease associations of actin-organising proteins myotilin and palladin

18.11.2004 Lutz Gissmann, German Cancer Research Center, Heidelberg: Development of vaccines against papillomavirus infections in man

23.11.2004 Michael Stratton, Sanger Institute, Cambridge, UK: Mutational screens of the protein kinase gene family in human cancer

16.12.2004 Scott A. White, University of Birmingham: PPX, PPase and Prune: the structure and function of three phosphatases from the DHH superfamily

20.1.2005 F. Susan Wong, Department of Pathology and Microbiology, School of Medical Sciences, University of Bristol: Knockout and transgenic animal models of autoimmune diseases

Richard Farndale, Department of Biochemistry, University of Cambridge: Affinity regulation and the recognition of collagen by the collagen-binding integrins

17.2.2005 J. Marie Hardwick, Johns Hopkins University Schools of Medicine: Viral modulators of cell death provide new links to old pathways

3.3.2005 Marikki Laiho, Haartman Institute, Biomedicum University of Helsinki: p53 and nucleolar stress response

10.3.2005 Urban Lendahl, Karolinska Institute: Notch signaling during development and disease

23.3.2005 Henning Walczak, German Cancer Research Center: The regulation and functions of the death-inducing signaling complex

31.3.2005 Luis Bagatolli, MEMPHYS - Center for Biomembrane Physics, University of Southern Denmark, Odense, Denmark: The lateral structure of biological membranes: lessons from model systems

7.4.2005 Mark Boothby, Vanderbilt Diabetes Center, Department of Microbiology and Immunology, Vanderbilt University Medical School: Regulating fate(ful) decisions in the life of a CD4 T cell

21.4.2005 Dian Donnai, Academic Unit of Medical Genetics and Regional Genetic Service, St Mary's Hospital:

Dysmorphology and development: from patient to pathway

28.4.2005 Timo Hyypiä, University of Turku: How do viruses get into the cells?

3.5.2005 Carmen Garrido, INSERM U-517, Faculty of Medicine and Pharmacy, Dijon - Université de Bourgogne: Hsp27 and Hsp70: antiapoptotic and tumorigenic properties

12.5.2005 Jeremy Saklatvala, Kennedy Institute of Rheumatology, Imperial College: The p38 MAPK pathway as therapeutic target in inflammatory diseases

26.5.2005 Terumi Kohwi-Shigematsu, Lawrence Berkeley Laboratory, University of California: MeCP2 mutations alter imprinted gene expression in Rett Syndrome

2.6.2005 Craig Primmer, University of Turku: Ecological genomics: prospects and challenges

3.6.2005 Hannu Larjava, University of British Columbia, Vancouver, Canada: Signaling pathways involved in keratinocyte migration

22.6.2005 Andrew H. Baker, University of Glasgow, UK: Use of viral vectors for gene therapy

11.8.2005 Jeffrey Bergelson, Children's Hospital of Philadelphia, USA: Virus-induced signals that permit coxsackievirus entry through the tight junction of polarized epithelial cells

16.8.2005 BioCity Minisymposium on Drosophila: Pernille Rørth, EMBL Heidelberg, Germany: Gradient sensing and tension sensing in invasive cell migration

Stephen M. Cohen, EMBL Heidelberg, Germany: Predicting microRNA function

1.9.2005 Geoffrey T. Swanson, The University of Texas Medical Branch, USA: Sponges and seizures: new glutamate receptor pharmacology from unlikely sources AND

Jeffrey M. Trent, Translational Genomics Research Institute in Phoenix, USA: Systems medicine in cancer therapeutics

8.9.2005 Scott Brady, University of Illinois at Chicago, USA: Life in the Fast Lane: Regulation of axonal transport and neurodegenerative disease

22.9.2005 Gyorgy Hajnoczky, Thomas Jefferson University Jefferson Medical College, USA: Mitochondrial affairs as visualized by fluorescence measurements

29.9.2005 Bruce N. Cronstein, NYU School of Medicine, USA: New tricks for an old drug, methotrexate and adenosine

6.10.2005 Colby L. Eaton, School of Medicine and Biomedical Sciences, University of Sheffield, UK: Mechanisms of prostate cancer progression and metastasis

13.10.2005 Willem de Vos, Wageningen Centre for Food Sciences, Wageningen University, The Netherlands: Genomes, guts & glory

20.10.2005 Douglas L. Crawford, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, USA:

Perceiving function from the natural variation in gene expression

27.10.2005 Anton Gartner, School of Life Sciences, University of Dundee, UK: The DNA damage response in C.Elegans

28.10.2005 Marius Sudol, Weiss Center for Research Geisinger Clinic, Danville, PA, USA: The WW Domain in Signaling and Disease – Proteomic Perspective

3.11.2005 John Sumpter, Institute for the Environment, Brunel University, UK: Biologically active contaminants in the environment and their effects on wildlife

10.11.2005 Jennifer Lippincott-Schwartz, Cell Biology and Metabolism Branch, NICHD, NIH, USA: Insights into cell compartmentalization and protein trafficking using GFP technology

1.12.2005 Michael O. Hottiger, Institute of Veterinary Biochemistry and Molecular Biology, University of Zurich, Switzerland: Acetylation of PARP-1 by p300/CBP regulates NF-kappa B-dependent gene expression

8.12.2005 Moshe Yaniv, Developmental Biology Department, Institut Pasteur, France: Oxidative stress and cellular senescence in the absence of JunD

12.1.2006 Alain Mauviel, Hôpital Saint-Louis, Paris: The TGFβ/Smad pathway: Molecular analysis and pathological implications in regulating malignant melanocyte functions

18.1.2006 Markku Laakso, Department of Internal Medicine, University of Kuopio: Genetics of type 2 diabetes: what's new?

19.1.2006 Michael A. Quilliam, National Research Council of Canada, Institute for Marine Biosciences, Canada: The Hunt for Red Tide Toxins: New Toxins, New Technologies

26.1.2006 Lucas Pelkmans, Swiss Federal Institute of Technology Zürich, Institute for Molecular Systems Biology, Switzerland: Towards Systems Biology of Virus Entry and Endocytosis

9.2.2006 Anthony Poole, Department of Molecular Biology & Functional Genomics, Stockholm University, Sweden: What Modern RNA Processing Tells Us About LUCA, the Last Universal Common Ancestor of All Life

16.2.2006 Kanury V. S. Rao, International Centre for Genetic Engineering & Biotechnology, New Delhi, India: Plasticity of the Signalling Network: Elegance in Chaos

2.3.2006 Massimo Santoro, Medical School, University "Federico II" of Naples, Italy: RET Signalling in Thyroid Tumors

8.3.2006 Matthias Uhlen, The Royal Institute of Technology (Kungliga Tekniska Högskolan), Sweden: A human protein atlas for normal and cancer tissues

9.3.2006 Evan Simpson, Prince Henry's Institute of Medical Research, Monash Medical Centre, Australia: Estrogens - the Good, the Bad, and the Unexpected

16.3.2006 Kerstin Uvnäs-Moberg, Swedish University of Agriculture (SLU): "Oxytocin stimulates social behaviours and induces antistress effects in animals. In what aspects are these effects of relevance in humans?"

23.3.2006 David F. Stern, Department of Pathology, Yale University School of Medicine, USA: EGF Family Receptor Tyrosine Kinases in Mammary Development and Breast Cancer

24.3.2006 David L. Brautigan, Center for Cell Signaling, University of Virginia School of Medicine: Connecting Kinases and Phosphatases in Cell Signaling

30.3.2006 Guttorm Haraldsen, Laboratory for Immunohistochemistry and Immunopathology, Institute of Pathology, University of Oslo, Norway: Chemokines in Cell Trafficking

6.4.2006 Anton Berns, The Netherlands Cancer Institute, Amsterdam, The Netherlands: Mouse Models for Cancer

12.4.2006 Jussi Taipale, Institute of Biomedicine, University of Helsinki: Systems Biology of Cancer

20.4.2006 Anu Suomalainen Wartiovaara, Biomedicum-Helsinki, Program of Neurosciences, University of Helsinki, Finland: Mitochondria in the Spotlight of Neurodegeneration

27.4.2006 Eva Halapi, VP of Clinical Sciences, deCODE genetics, Reykjavik, Iceland: Genetics of Complex Diseases

4.5.2006 John A. Jansen, Department of Periodontology and Biomaterials, University of Nijmegen, The Netherlands: Engineering of Dental Tissues

5.5.2006 Catherine Verfaillie, Stem Cell Institute, Minneapolis: Multipotent Adult Progenitor Cells – What Are They and How Could They Be Used

18.5.2006 Linda Wordeman, Department of Physiology and Biophysics, University of Washington, Seattle, USA: Order from Chaos: The Control of Microtubule Dynamics and Chromosome Segregation in Living Cells

18.5.2006 Ludvig Sollid, University of Oslo: Genes and Environment in Celiac Disease

26.5.2006 Ajay Rana, Texas A&M University Health System: Balance between Survival and Death: A Unique Role of MLK3

30.5.2006 Linda Thompson, University of Oklahoma, USA: Importance of Extracellular ATP Metabolism in Regulation of Inflammation and Cancer Spread

8.6.2006 Tomas Mustelin, The Burnham Institute for Medical Research, La Jolla, USA: Protein Tyrosine Phosphatases in Immunity and Autoimmune Disease

31.8.2006 Prof. Richard Vallee, Columbia University Medical Center: Studies of the Smooth Brain Disease Lissencephaly Provide Insight into Neural Stem Cell Migration and Mitotic Checkpoint Regulation

21.9.2006 Dr. Sanjeev Galande, National Centre for Cell Science, Pune, India: Bridging Signal Transduction and Chromatin Architecture: Role of PDZlike Domain of SATB1 in Regulation of Global Gene Expression

28.9.2006 Dr. Sarah Butcher, Structural Virology Programme, Institute of Biotechnology & Dept. Biosciences, University of Helsinki: Insights into Virus Structure and Assembly from Cryo-electron Microscopy

5.10.2006 Prof. Bernd Bukau, University of Heidelberg, Germany: Mechanisms of Molecular Chaperones

11.10.2006 Prof. Masayuki Miyasaka, University of Osaka, Japan: How do the Cells Traffic in the Body?

11.10.2006 Dr. Yvonne Rosenberg, ProCell Corporation, USA: Production of Vaccines and Therapeutics in Plants

12.10.2006 Prof. John P. Foreyt, Baylor College of Medicine, Department of Medicine, Houston, USA: Trends in the Long-Term Management of Obesity

19.10.2006 Dr. Navin C. Khanna, Recombinant Gene Products Laboratory, International Center for Genetic Engineering & Biotechnology, New Delhi, India: Infectious Disease Testing: an Indian Scenario

26.10.2006 Prof. Tony Ng, Kings College, London, UK: From Single Cell to the Whole Proteome - the Basis of an Optical Imaging Approach to Understand Cancer Metastasis

2.11.2006 Dr. Mika Rämet, Institute of Medical Technology, University of Tampere: Genome-wide Functional Analysis of Drosophila Immune Response

9.11.2006 Prof. Frank E. Jones, Tulane Cancer Center, Tulane University Health Sciences Center, USA: Intracellular Signaling by the HER4/ERBB4 Cell-Surface Receptor - Unleashing the Killer Inside

13.11.2006 Prof. Paul Kubes, University of Calgary, Canada: Mechanisms of Bacterial Detection by the Innate Immune System in the Vasculature

16.11.2006 Dr. Pekka Lappalainen, Institute of Biotechnology, University of Helsinki: Assembly of Contractile Actin Filament Structures in Mammalian Cells

30.11.2006 Prof. William C. Hahn, Harvard Medical School, USA: Functional Genomic Approaches to Understand Human Cell Transformation

13.12.2006 Prof. Stephen J. Weiss, University of Michigan, Ann Arbor, USA: Membrane-Anchored Matrix Metalloproteinases and the Regulation of the Tissue-Invasive Phenotype

14.12.2006 Dr. Miikka Vikkula, Laboratory of Human Molecular Genetics, Christian de Duve Institute of Cellular Pathology, Brussels, Belgium: Genetic Causes of Vascular Malformations

12.1.2007 Prof. Phillip Gordon-Weeks, King's College London, UK: Microtubule-Actin Filament Interactions in Growth Cone Pathfinding

16.1.2007 FiDiPro Professor Rikard Holmdahl: From Disease to Genes and Back - Following an Oxidation Path

18.1.2007 Prof. Leena Peltonen, National Public Health Institute and University of Helsinki, Department of Molecular Medicine and Genetics: Complex Diseases in a Simplex Setting, Lessons of Disease Genes in Finns

8.2.2007 Prof. Jan Brosens, Institute of Reproductive and Developmental Biology, Imperial College London, UK: SUMOylation and Progesterone Signalling

15.2.2007 Prof. Sven Bergström, Department of Molecular Biology, Faculty of Medicine, Umeå University, Sweden: Infection Biology of Borrelia

1.3.2007 Prof. Eckardt Treuter, Department of Biosciences and Nutrition Novum, Karolinska Institutet, Stockholm, Sweden: Coregulatory Actions of the Ubiquitin System in Steroidogenesis

8.3.2007 Prof. Zlatko Dembic, Institute of Oral Biology (IOB), Faculty of Dentistry, University of Oslo, Norway: The Molecular Basis of Some Immune Related Diseases

15.3.2007 Prof. Lorenz Poellinger, Karolinska Institutet, Stockholm, Sweden: Gene Regulation in Hypoxic Cells - Implications for Regulation of Tumor Growth and Cell Differentiation

22.3.2007 Prof. Thomas Laurell, Faculty of Engineering, LTH at Lund University, Sweden: Microfluidics and Microarrays for Low Abundant Protein Analysis

29.3.2007 Dr. Ruggero Pardi, Unit of Leukocyte Biology, Vita-Salute University School of Medicine, DIBIT-Scientific Institute San Raffaele, Italy: A Sense of Touch: Signal Transduction by Adhesion Receptors in Mammalian Cells

12.4.2007 Prof. Massimo Zollo, CEINGE, Biotechnologie Avanzate Scarl, Napoli, Italy: H-prune Biology, Translating Discoveries to Fight Cancer Metastases

19.4.2007 Dr. Juha-Pekka Himanen, University of Turku and Sloan-Kettering Institute, NY: Eph Receptor Tyrosine Kinases: from Structures to Anti-Cancer Antagonist Screens

26.4.2007 Prof. Jozef Goris, Afdeling Biochemie, Faculteit Geneeskunde, Leuven, Belgium: PP2A, the Expected Tumor Suppressor

3.5.2007 Prof. Phillip J. Robinson, Children's Medical Research Institute, Sydney, Australia: Molecular Mechanisms of Synaptic Vesicle Endocytosis

10.5.2007 Prof. Don Cleveland, Ludwig Institute for Cancer Research, University of California at San Diego, USA: Guarding the Genome: Centromeres, the Mitotic Checkpoint and Aneuploidy

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31.5.2007 Dr. Kai Simons, Max-Planck-Institute of Molecular Cell Biology and Genetics, Germany: Lipid Rafts as an Organisational Principle in Cell Membrane Function

31.5.2007 Dr. Miguel Del Pozo, Fundación CNIC Carlos III, Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain: Integrins and Caveolin-1 in Cell Migration, Endocytosis and Cell Growth

7.6.2007 Prof. H. Shelton Earp III, Lineberger Comprehensive Cancer Center, The School of Medicine, The University of North Carolina, USA: The EGF Receptor Family: New Plot Lines in an Old Story

7.6.2007 Prof. Stefan Hell, Max Planck Institute for Biophysical Chemistry, Germany: Fluorescence Nanoscopy: Macromolecular Scale Resolution with Visible Focused Light

30.8.2007 Dr. Daniela Corda, Laboratory of Cell Regulation, Department of Cell Biology and Oncology, Consorzio Mario Negri Sud, Italy: The Winding Road from ADP-Ribosylation to Membrane Fission

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6.9.2007 Prof. Ed Palmer, the Laboratory of Transplantation Immunology, Department of Research, University Hospital-Basel, Switzerland: The Language of T Cell Receptor Signaling: Do You Speak Affinity?

13.9.2007 Prof. Masaru Okabe, Genome Information Research Center, Research Institute for Microbial Diseases, Osaka University, Japan: Power of Gene Manipulated Animals from Testicular Eggs to Fusion Incompetent Sperm

20.9.2007 Prof. Reinhard Fässler, Max Planck Institute of Biochemistry, Martinsried, Germany: Integrin Signalling in Vivo

4.10.2007 Dr. Antonella Viola, Humanitas Clinical Institute, Milan, Italy: New Views of Chemokine Receptor Signaling in T Cells

11.10.2007 Prof. Andres Metspalu, Institute of Molecular and Cell Biology and Estonian Genome Project of the University of Tartu, Estonian Biocentre, Estonia: The Estonian Genome Project

25.10.2007 Prof. Jochen Hühn, Experimentelle Rheumatologie, Charité Universitätsmedizin, Deutsches Rheuma-Forschungszentrum Berlin, Germany: To Be or Not to Be a Treg: Epigenetic Control of Foxp3 Expression

1.11.2007 Prof. Maria Arménia Carrondo, Instituto de Tecnologia Química e Biológica (ITQB), Universidade Nova de Lisboa, Portugal: The Structure of RNaseII and Its Complex with ssRNA Provides Insight into the Dynamics of RNA Degradation and Processivity

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19.12.2007 Prof. Axel Ullrich, Max Planck Institute of Biochemistry, Dept. of Molecular Biology, Martinsried, Germany: Oncogenome Analysis as Basis for Cancer Drug Development: From Paul Ehrlich's "Magic Bullet" to Multi-Targeted Kinase Inhibitors

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28.2.2008 Prof. Peter Peters, Netherlands Cancer Institute, Antoni van Leeuwenhoek Hospital, Amsterdam, The Netherlands: 3D Maps of Cellular Components at Molecular Resolution: Pseudoatomic Atlas by Cryo-Nanosopic Techniques

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8.5.2008 Dr. My Mahoney, Associate Professor, Department of Dermatology, Thomas Jefferson University, Philadelphia, PA, USA: Cell Adhesion and Signalling

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22.5.2008 Prof. Gunnar von Heijne, Department of Biochemistry and Biophysics, Stockholm University, The Arrhenius Laboratories for Natural Sciences, Sweden: Fooling Around with Dual-Topology Membrane Proteins

28.8.2008 Dr. Sharmila Bapat, National Centre for Cell Science NCCS Complex, Pune University, India: Epigenetic Mechanisms of Gene Regulation in Ovarian Cancer

4.9.2008 Dr. Franz Bosch, The Head and Neck Cancer Centre, King's College London, UK: Clinical and Molecular Factors in Head and Neck Cancer

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18.9.2008 Prof. Juha Kere, Karolinska Institutet, Department of Biosciences and Nutrition, Sweden: Finding Genes for Complex Disorders

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20.11.2008 Dr. Susanne Lens, Department of Medical Oncology, Laboratory of Experimental Oncology, University Medical Center Utrecht, The Netherlands: The Chromosomal Passenger Complex and the Control of Chromosomal Stability

18.12.2008 Prof. Tomi Mäkelä, Institute of Biomedicine, Faculty of Medicine, Biomedicum Helsinki, Finland: The LKB1 Kinase: Gastrointestinal Tumor Suppression by "Landscaping"