

Inflammatory Diseases and Immune Response: Basic Aspects, Novel Approaches and Experimental Models



Joint FEBS & EFIS Workshop, September 28 – October 1, 2010
“Festsaal” of the Austrian Academy of Sciences, Vienna, Austria



Provisional program

Tuesday September 28

13:00 - 15:00 Registration

15:00 - 15:15 Introductory remarks (Wilfried Ellmeier, Sylvia Knapp and Pavel Kovarik)

15:15 – 18:35 Infectious disease models - Part I (chair Sylvia Knapp)

15:15 – 15:50 **Jeffrey Weiser (keynote)**, University of Pennsylvania, Philadelphia, USA
"The biology of bacterial colonization of the respiratory tract"

15:50 – 16:25 **Alice Prince**, Columbia University, New York, USA
"*S. aureus* activation of epithelial signaling cascades"

16:25 – 16:35 **Bastian Opitz**, Charité University Medicine Berlin, Germany
"Dissection of a type I interferon pathway in controlling bacterial intracellular infection "

16:35 – 16:45 **Omar Sharif**, Centre for Molecular Medicine, Vienna, Austria
"Anti-inflammatory functions of triggering receptor expressed on myeloid cells (TREM) 2 during pneumococcal pneumonia"

16:45 – 17:15 coffee break

17:15 – 17:50 **Tom van der Poll**, University of Amsterdam, The Netherlands
"Models of Pneumonia"

17:50 – 18:25 **Giuseppe Teti**, University of Messina, Italy
"Experimental in vivo and in vitro models of infection by group B streptococci"

18:25 – 18:35 **Manfred Nairz**, Medical University of Innsbruck, Austria
"Erythropoietin contrastingly affects the course of systemic infection and experimental colitis by inhibiting nuclear factor-NFkB-inducible immune effector pathways"

18:45 – 20:00 Dinner (at the workshop venue)

9 :00 - 12:30 **Infectious disease models - Part II** (chair Alice Prince)

- 9:00 – 9:35 **Sabine Ehr**t, Weill Cornell Medical College, New York, USA
"Intracellular Survival Strategies of *Mycobacterium tuberculosis*"
- 9:35 – 10:10 **Mihai Netea**, Radboud University Nijmegen, The Netherlands
"Host defense against fungal infections "
- 10:10 – 10:20 **Amanda Jamieson**, Max F. Perutz Laboratories, University of Vienna, Austria
"Modulation of the immune response to bacteria by influenza virus infection"
- 10:20 – 10:30 **Andrea Schroll**, Medical University Innsbruck, Austria
"Neutrophil Gelatinase-Associated Lipocalin (NGAL) promotes Granulocytes"
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- 10:30 – 11:00 coffee break
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- 11:00 – 11:35 **Gerard Eberl**, Institute Pasteur, Paris, France
"Commensal flora and development of the immune system"
- 11:35 – 12:10 **Wolf-Dietrich Hardt**, ETH Zürich, Switzerland
"The molecular steps initiating Salmonella diarrhea in vivo"
- 12:10 – 12:20 **Silvia Stockinger**, Institute of Medical Microbiology, Hannover, Germany
"Influence of antimicrobial peptide expression in the developing gut"
- 12:20 – 12:30 **Tamas Dolowschiak**, Institute of Medical Microbiology, Hannover, Germany
"Potentiation of Epithelial Innate Host Response by Intercellular Communication"
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12:30 - 13:30 **Lunch**

13:30 – 15:00 **Poster session I** (poster setup 8:30 - 9:00)

15:00 – 18:10 **Epigenetic aspects of inflammation and infection & Gene expression** (chair Wilfried Ellmeier)

- 15:00 – 15:35 **Keji Zhao**, National Institute of Health, Bethesda, USA
"Regulation of transcription factor targeting by chromatin"
- 15:35 – 16:10 **Laurence Arbibe**, Institute Pasteur, Paris
"Innate immune subversion by chromatin modifications: a new face of host-bacterial pathogen interaction"
- 16:10 – 16:20 **Elisabeth Gritzner**, Institute of Cancer Research, Vienna, Austria
"The role of dendritic cells in psoriasis"
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- 16:20 – 16:50 coffee break
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- 16:50 – 17:25 **Ofer Mandelboim**, The Hebrew University, Jerusalem, Israel
"Cellular and viral miRNAs controlling immune responses"
- 17: 25 – 18:00 **Simona Sacconi**, Max Planck Institute, Freiburg, Germany
"Transcription regulation by the NF-kB family of transcription factors"
- 18:00 – 18:10 **Didier Soulat**, Centro Nacional de Biotecnología, Madrid, Spain
"Function of miRNAs in dendritic cell development"
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18:10 - 20:00 **Happy Hour: Young scientists meet speakers** (at the workshop venue)

9 :00 - 12:30 **Inflammatory disease models - Part I** (chair Pavel Kovarik)

- 9:00 – 9:35 **Brigitta Stockinger (keynote)**, MRC, Mill Hill, London, UK
"Modulation of immune responses by environmental stimuli and the arylhydrocarbon receptor"
- 9:35 – 10:10 **Mathias Hornef**, Institute of Medical Microbiology, Hannover, Germany
"Adaptation of intestinal epithelial innate immune signaling during the postnatal period"
- 10:10 – 10:20 **Franz Kratochvill**, Max F. Perutz Laboratories, University of Vienna, Austria
"Regulatory circuit controlling quality and timing of global inflammatory mRNA decay in macrophages is driven by tristetraprolin and p38 MAP kinase"
- 10:20 – 10:30 **Rena Brauer**, Institute of Molecular Genetics, Prague, Czech Republic
"Key role for MMP-19 and MMP-28 in maintenance of intestinal homeostasis revealed by mouse model of DSS-induced colitis"
- 10:30 – 11:00 coffee break
- 11:00 – 11:35 **Maya Saleh**, McGill University, Montreal, Canada
"Nod and NLR signaling in tissue homeostasis and inflammation-mediated immune diseases"
- 11:35 – 12:10 **Simon C Arthur**, University of Dundee, UK
"MAPK signalling in innate immunity"
- 12:10 – 12:20 **Carlos del Fresno**, Spanish National Centre of Biotechnology, Madrid, Spain
"Role of p38g and p38d in LPS-mediated dendritic cell activation"
- 12:20 – 12:30 **Nicole Boucheron**, Institute of Immunology, Medical University of Vienna, Austria
"The protein tyrosine kinase Tec regulates a CD44hiCD62L Th17 subset"
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12:30 - 13:30

Lunch

13:30 – 15:00

Poster session II (poster setup 8:30 - 9:00)

15:00 – 17:55 **Inflammatory disease models - Part II** (chair Maya Saleh)

- 15:00 – 15:35 **Felix Randow**, MRC Laboratory of Molecular Biology, Cambridge, UK
"Cell autonomous innate immunity"
- 15:35 – 16:10 **Steffen Jung**, The Weizmann Institute of Science, Rehovot, Israel
"On-site education of monocytes promotes angiogenesis"
- 16:10 – 16:20 **Rebecca Leyland**, MRC, London, UK
"Precursor and Product Relationships of Haematopoietic Progenitors in Early Lymphoid Compartments"
- 16:20 – 16:30 **Maria Seyerl**, Medical University of Vienna, Austria
"Human rhinoviruses induce IL-35-producing Treg via induction of B7-H1 (CD274) and sialoadhesin (CD169) on DC"
- 16:30 – 17:00 coffee break
- 17:00 – 17:35 **Adelheid Cerwenka**, German Cancer Research Center, Heidelberg, Germany
"Inflammatory responses mediated by the Triggering Receptor Expressed on Myeloid cells-1, TREM-1"
- 17: 35 – 17:45 **Simon Hametner**, Center for brain research, Vienna
"Ferritin and iron in multiple sclerotic and control human brains"
- 17:45 – 17:55 **Florian Forster**, Medical University of Vienna, Austria
"The IFN gamma inducible GTPase guanylate binding protein 1 is a novel regulator of T cell receptor signaling"
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19:00 – 23:00

Viennese Heurigen Evening (dinner in a traditional Viennese restaurant)
Address: Feuerwehr Wagner, Grinzinger Straße 53. 1190 Vienna

9 :00 - 12:30 **Systems biology approaches to study inflammation and infection**
(chair Brigitta Stockinger)

- 9:00 – 9:35 **David Hume (keynote)**, The Roslin Institute, Edinburgh, UK
“Systems Biology of Macrophage Differentiation and Activation”
- 9:35 – 10:10 **Roland Lang**, University of Erlangen, Germany
”Innate immune regulation: from phosphorylation to transcription”
- 10:10 – 10:20 **Adriana Goncalves**, Center for Molecular Medicine, Vienna, Austria
“Functional dissection of the TBK1 molecular machine”
- 10:20 – 10:30 **Magdalena Niedzielska**, University Hospital Erlangen, Germany
“TLR4 triggering causes a DNA damage response footprint in the phosphoproteome of macrophages”
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- 10:30 – 11:00 coffee break
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- 11:00 – 11:35 **Capucine Picard**, University Paris René Descartes, Paris, France
“Genetic infectious susceptibility in human”
- 11:35 – 12:10 **Oreste Acuto**, University of Oxford, Oxford, UK
“Quantitative proteomics approaches to dissect T cell activation”
- 12:10 – 12:20 **Andreas Pichlmair**, Center for Molecular Medicine, Vienna, Austria
"Identifying cellular binding partners of viral innate immune modulators by a functional proteomic approach”
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12:20 - 12:30 **Concluding remarks**