

# Molecular and systems immunology to understand basic mechanisms of immune mediated diseases

August 2-3, 2010

Mauno Koivisto Centre Auditorium, BioCity, Turku, Finland

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## Monday, August 2<sup>nd</sup>

Session I: Cell signaling and gene expression

Chair: Riitta Lahesmaa and Sanna Edelman

- 9.30 Registration and coffee
- 10.00 Opening/ Riitta Lahesmaa, Turku Centre for Biotechnology
- 10.05 Anjana Rao, Gene regulation in cells of the immune system
- 10.50 Patrick Hogan, Molecular basis of calcium signalling in cells of the immune system
- 11.35 Coffee
- 12.00 Kian Peng Koh, - Tet proteins – new regulators of ES cell differentiation
- 12.20 Olli Lassila, Transcriptional control of plasma cell differentiation
- 12.45 Soile Tuomela, IL-4-and STAT6-mediated transcriptional regulation to initiate Th2 program in human T cells
- 13.05 Harri Lähdesmäki, Computational systems biology to build gene regulatory networks of T cell differentiation
- 13.30 Lunch

Session II: Modulation of immune response I

Chair: Olli Lassila

- 14.30 Micah Benson, Molecular mechanisms of plasma cell differentiation
- 14.50 Sonia Sharma, Genome wide siRNA screen reveals new players in Ca-signalling
- 15.10 Matthew Pipkin, Transcriptional control of cytotoxic T lymphocyte differentiation and function
- 15.30 Nancy Huang, Leukemia associated mutations in Tet-2
- 15.50 Discussion

## Tuesday, August 3<sup>rd</sup>

Session III: Modulation of immune response II

Chair: Anjana Rao

- 9.30 Coffee
- 10.00 Brigitta Stockinger, Plasticity of T cell responses
- 10.45 Christoph Wilhelm: Role of IL-9 in the immune system
- 11.05 Keiji Hirota: Role of the AhR in immune responses
- 11.25 Coffee
- 11.50 Joao Duarte: Role of the AhR in skin inflammation
- 12.10 Ceri Wiggins: Crosstalk of AhR and NFkB
- 12.20 Helena Ahlfors: Role of AhR in antigen presenting cells
- 12.40 Lunch

Session IV: T1D

Chair: Brigitta Stockinger

- 13.40 Mikael Knip, New insights into T1D
- 14.05 Arno Hänninen, Host-microbe interactions in autoimmune type 1 diabetes
- 14.30 Henna Järvenpää, -T1D transcriptomics
- 14.50 Matej Oresic, Metabolic regulation in progression to T1D
- 15.15 Discussion

Registration by 20. Jun 2010. Website <http://www.btk.fi/events>

