

Fifth International Conference on "B Cells and Autoimmunity"

Como, Italy - August 19th - 21st, 2013

Scientific program

Monday, August 19th

- 17.00 - 19.00 **Registration**
- 18.45 - 19.00 **Opening**
Welcome to B cells and autoimmunity
Moncef Zouali (Inserm & University Paris Diderot,
Sorbone Paris Cité, France)
Welcome to Como
Simone Cenci (San Raffaele Scientific Institute, Milan, Italy)
- 19.00 - 20.00 **Keynote Lecture**
**Innate, adaptive and survival receptors:
A new triumvirate governing peripheral B cell tolerance**
Michael Cancro (University of Pennsylvania, Philadelphia, PA, USA)
- 20.00 **Welcome Cocktail**

Tuesday, August 20th

Session 1

Signals and circuits orchestrating cell fate decisions

Chair: Betty Diamond
(Feinstein Institute for Medical Research, Manhasset, NY, USA)

- 09.00 - 09.30 **Calcium signaling in B lymphocytes**
Tomohiro Kurosaki (Osaka University, Osaka, Japan)
- 09.30 - 10.00 **Shaping up a blood cell lineage: lessons from B-cell development**
Mikael Sigvardsson (Linköping University, Linköping, Sweden)
- 10.00 - 10.15 **Interaction of TAPP adapter proteins with
the PI 3-kinase and SHIP product PI(3,4)2 regulates B cell
activation and autoantibody production (A56)**
Aaron James Marshall (University of Manitoba, Winnipeg, Canada)
- 10.15 - 10.30 **Enhanced signaling through Bruton's tyrosine kinase drives
autoimmunity by disrupting T cell homeostasis (A73)**
Rudi W. Hendriks (Erasmus MC, Rotterdam, The Netherlands)
- 10.30 - 11.00 **Coffee Break**
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Session 2

Tolerance decisions

Chair: David Gray

(University of Edinburgh, Edinburgh, UK)

- 11.00 - 11.30 **Follicular dendritic cells are essential for maintenance of autoreactive B cells**
Michael C. Carroll (Harvard Medical School, Boston, MA, USA)
- 11.30 - 12.00 **A marginal zone precursor subset with Notch2-dependent differentiation properties in humans**
Claude-Agnès Reynaud (Inserm & University Paris Descartes, Paris, France)
- 12.00 - 12.15 **Differential response of transitional and naïve human systemic lupus erythematosus B cell subsets to B cell receptor stimulation (A66)**
Michelle Hermiston (University of California, San Francisco, CA, USA)
- 12.15 - 14.00 **Free time for lunch**
- 14.00 - 15.00 **Poster Viewing I**

Session 3

B lymphocyte dynamics

Chair: David Tarlinton

(Walter and Eliza Hall Institute of Medical Research, Parkville, Australia)

- 15.00 - 15.30 **Regulatory B and iNKT cells interaction: novel mechanism of suppression**
Claudia Mauri (University College London, London, UK)
- 15.30 - 16.00 **Generation of IgM memory B cells**
Rita Carsetti (Bambino Gesù Children's Hospital, Rome, Italy)
- 16.00 - 16.15 **KLHL6 is an adaptor of the Cullin-based-E3-ubiquitin ligase complex responsible for transitional B cell survival and differentiation (A64)**
Barbara Bertocci (Faculté de Médecine Paris, France)
- 16.15 - 16.30 **Altered B cell balance, but unaffected B cell regulatory function in anti-neutrophil cytoplasmic autoantibody (ANCA)-associated vasculitis (A60)**
Nikola Lepse (University of Groningen, Groningen, The Netherlands)
- 16.30 - 16.45 **Mast cells contribute to the expansion and differentiation of IL-10-competent B cells (A67)**
Francesca Mion (University of Udine, Udine, Italy)
- 16.45 - 17.15 **Tea/coffee Break**
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Session 4

B and plasma cell dynamics and survival

Chair: Michael Cancro

(University of Pennsylvania, Philadelphia, PA, USA)

17.15 - 17.45

Intrinsic changes in the regulation of plasma cell survival in autoimmunity

David Tarlinton (Walter and Eliza Hall Institute of Medical Research, Parkville, Australia)

17.45 - 18.15

Autophagy in plasma cell ontogenesis

Simone Cenci (San Raffaele Scientific Institute, Milan, Italy)

18.15 - 18.30

Adult hematopoietic stem cells do not reconstitute all immune cell subsets (A4)

Eliver Ghosn (Stanford University, Stanford, CA, USA)

18.30 - 19.30

Poster Viewing II

Wednesday, August 21st

Session 5

Cell survival niches in autoimmunity

Chair: Tomohiro Kurosaki

(Osaka University, Osaka, Japan)

09.00 - 09.30

B cells, Tfh programming and plasma cell niches

David Gray (University of Edinburgh, Edinburgh, UK)

09.30 - 09.45

Genetic background determines whether TLR9 is a positive or negative regulator of B cell autoreactivity (A65)

Robyn E. Mills (University of California, San Francisco, San Francisco, CA, USA)

09.45 - 10.00

Regulation and B-cell help mediated by distinct subsets of IL10-producing T-cells (A69)

Jens Geginat (INGM, Autoimmunity Program, Milan, Italy)

10.00 - 10.15

Phenotypic signature of B cells in health and autoimmunity (A72)

William J. Sanderson (University College London, London, UK)

10.15 - 11.00

Coffee Break

Session 6

Functional B cell defects in autoimmunity

Chair: Michael C. Carroll

(Harvard Medical School, Boston, MA, USA)

- 11.00 - 11.30 **Functional consequences of autoimmunity risk alleles on B cell function**
Betty Diamond (The Feinstein Institute for Medical Research, Manhasset, NY, USA)
- 11.30 - 12.00 **Genetic and functional analysis of B cell defects in a mouse model of lupus**
Laurence Morel (University of Florida, Gainesville, FL, USA)
- 11.30 - 11.45 **A missense variant of RASGRP1 increases tonic mTOR signaling resulting in aberrant accumulation of helper T cells and production of autoantibodies (A68)**
Katrina L. Randall (John Curtin School of Medical Research, Canberra, Australia)
- 11.45 - 12.00 **SPARC deficiency promotes lupus like autoimmunity by defective clearance of dead PMN (A76)**
Caterina Vitali (Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy)
- 12.00 - 14.00 **Free time for lunch**
- 14.00 - 15.00 **Poster Viewing III**

Session 7

Lymphocyte survival and autoreactivity

Chair: Rita Carsetti

(Bambino Gesù Children's Hospital, Rome, Italy)

- 15.00 - 15.30 **B cell-targeted therapeutics**
Alexander Gabibov (Russian Academy of Sciences, Moscow, Russia)
- 15.30 - 15.45 **B-cell dependent therapies for tolerance induction: from IgG fusion proteins to antigen-specific Tregs (A54)**
David W. Scott (Uniformed Services University of the Health Sciences, Bethesda, MD, USA)
- 15.45 - 16.00 **Galectin-like molecule in parasite exacerbates experimental autoimmune encephalomyelitis and enhances autoreactive B cells (A63)**
Youngheun Jee (Jeju National University, Jeju, South Korea)
- 16.00 - 16.15 **Monoclonal anti-idiotypic antibodies might regulate BB-rat autoimmune diabetes (A75)**
Carl-Henrik Brogren (University of Copenhagen, Copenhagen, Denmark)
- 16.15 - 17.00 **Tea/coffee Break**
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Session 8

B cell-targeted therapeutics

Chair: Moncef Zouali

(Inserm & University Paris Diderot, Sorbone Paris Cité, France)

17.00 - 17.30

B-cells in autoimmune glomerulonephritis

Brad H. Rovin (Ohio State University, Columbus, OH, USA)

17.30 - 18.00

Tracking anti-insulin B cells in type 1 Diabetes

James W. Thomas (Vanderbilt University, Nashville, TN, USA)

18.00 - 18.15

Early, prophylactic treatment with a single dose of anti-CD40L abolishes Sjögren's-like manifestations in aged NOD.H2H4 mice (A57)

Rachel Ettinger (Medimmune, LLC, Gaithersburg, MD, USA)

19.30

Farewell Dinner

(not included in the registration fee)

Thursday, August 22nd

Departures
