

MARIE CURIE ACTIONS
(MSCF-CT-2006-046108)

Translational Research in Paediatric Rheumatology (TRiPR)

THIRD CONFERENCE

Adaptive Immunity and the Pathogenesis of Rheumatic Diseases

September 24th – 27th, 2009

Genoa, Italy

Conference Chair

Alberto Martini (Genoa)

Scientific Committee

Marco Gattorno (Genoa)

Wietse Kuis (Utrecht)

Lorenzo Moretta (Genoa)

Berent Prakken (Utrecht)

Johannes Roth (Münster)

Elisabetta Traggiai (Genoa)

Patricia Woo (London)

Provisional Programme



Giannina Gaslini
Institute



International School
of Pediatric Science



University of
Genoa



PRINTO
Pediatric
Rheumatology
International Trials
Organisation



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Paediatric Rheumatology
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TRiPR III

Adaptive Immunity and the Pathogenesis of Rheumatic Diseases

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Premise and Aims

There is a growing body of evidence that the regulation of central and peripheral B and T cell development plays a pivotal role in the pathogenesis of autoimmune diseases. The efficacy of anti-B cell therapy has opened a new field of investigation on the role of B lymphocytes not only as precursors of autoantibody secreting cells, but also as regulators of autoreactive T cell responses. Moreover, breakthroughs in our knowledge of regulatory T cells, of new mechanisms governing immune tolerance, and of T helper 17 (Th17) cells, have dramatically advanced our understanding of many inflammatory and autoimmune diseases and have opened new potential avenues for the treatment of rheumatic diseases. The third event in the TRiPR conference series, Adaptive Immunity and the Pathogenesis of Rheumatic Diseases, will focus on the molecular and cellular mechanisms involved in the activation of the effector functions of the adaptive immune system, their involvement in the pathogenesis of chronic rheumatic diseases and the potential identification of targets to modulate the activity of the adaptive immune system.

Provisional Topics and Speakers

Thursday, September 24th

8:45 *Registration*

9:45 - 10:00 **Welcome and Introduction**
Alberto Martini (Genoa)

Session I Mechanisms of central tolerance of B and T lymphocytes

10:00 - 11:00 **Central mechanisms of T cell tolerance**
Abul Abbas University of California, San Francisco

11:00 - 12:00 **Central B cell development**
Hassan Jumaa, Max-Planck-Institute for Immunobiology (Freiburg)

12:00 - 13:00 **Peripheral development of B cells/Function of B cells at the border between defence and self aggression**
Hedda Wardemann, Max-Planck Institute for Infection Biology (Berlin)

13:00 - 14:30 *Lunch & Poster Viewing*

Session II Thymic and peripheral regulatory T and B cell development and their implication in autoimmunity

14:30 - 15:30 **Regulatory T cell subsets: from thymus to periphery compartment**
Maria Grazia Roncarolo, Istituto Scientifico San Raffaele (Milan)

15:30 - 16:30 **Regulatory T cells in autoimmunity**
Clare Baecher-Allan, Brigham and Women's Hospital (Boston)

16:30 - 17:00 *Coffee Break*

17:00 - 18:00 **Regulatory B cells**
Simon Fillatreau, Deutsches Rheuma-Forschungs Zentrum (Berlin)

18:00 - 19:00 **Selected oral communications**

19:00 - 21:00 *Welcome Cocktail*

Friday, September 25th

Session III Effector mechanisms of T lymphocytes in autoimmune diseases I

- 9:00 - 10:00 **Origin and function of T_h17 cells**
Sergio Romagnani, Università di Firenze
- 10:00 - 11:00 **IL-17 and T_h17 cells in rheumatoid arthritis**
Pierre Miossec, Hôpital Edouard Héribert (Lyon)
- 11:00 - 11:30 *Coffee Break*
- 11:30 - 12:15 **T cells in juvenile idiopathic arthritis**
Lucy Wedderburn, Institute of Child Health (London)
- 12:15 - 13:00 **Regulatory T cells in juvenile idiopathic arthritis**
Berent Prakken, Universitair Medisch Centrum Utrecht
- 13:00 - 14:30 *Lunch & Poster Viewing*

Session IV Effector mechanisms of T lymphocytes in autoimmune diseases II

- 14:30 - 16:00 **Selected oral communications**
- 16:00 - 16:30 *Coffee Break*
- 16:30 - 17:15 **Defects of apoptosis**
Umberto Dianzani, Università del Piemonte Orientale Amadeo Avogadro (Novara)
- 17:15 - 18:00 **Measuring antigen specific immune response**
Fabrizio Manca, Istituto Giannina Gaslini (Genova)
- 19:30 *Boat excursion and buffet dinner (weather/maritime conditions permitting)*

Saturday, September 26th

Session V Novel strategies to treat autoimmune disease I

- 9:00 - 9:45 **Type I IFN in autoimmune diseases**
Virginia Pascual, Baylor Institute for Immunology Research, (Dallas)
- 9:45 - 10:30 **Translating the concept of suppressor/regulatory T cells to clinical applications**
Salvatore Albani, University of Arizona, (Tucson)
- 10:30 - 11:00 *Coffee Break*
- 11:00 - 11:45 **Targeting T cells in autoimmune diseases**
Fabio Grassi, Istituto di Ricerca in Biomedicina (Bellinzona)
- 11:45 - 13:00 **Selected oral communications**
- 13:00 - 14:30 *Lunch & Poster Viewing*

Session VI Novel strategies to treat autoimmune disease II

- 14:30 - 15:15 **Mesenchymal stem cells as potent immunoregulatory cells**
Antonio Uccelli, Università di Genova
- 15:15 - 16:00 **Haematopoietic stem cell transplantation in autoimmune disease**
Nico Wulffraat, Universitair Medisch Centrum Utrecht
- 16:00 - 16:30 *Coffee Break*
- 16:30 - 15:15 **Modulation of synovial inflammation in rheumatoid arthritis**
Costantino Pitzalis, William Harvey Research Institute (London)
- 17:15 - 18:15 **Selected oral communications**
- 20:00 *Reception at the Gaslini Foundation*

Sunday, September 27th

Session VII B cell niches and effector functions in immunity and inflammation

9:00 - 10:00 **Pathogenic memory for chronic inflammation**

Andreas Radbruch, Deutsches Rheuma-Forschungs Zentrum (Berlin)

10:00 - 10:45 **Innate mechanisms in regulation of B cell memory**

Elisabetta Traggiai, Istituto Giannina Gaslini (Genoa)

10:45 - 11:15 *Coffee Break*

11:15 - 12:00 **B cells in autoimmune diseases**

Vito Pistoia, Istituto Giannina Gaslini (Genoa)

12:00 - 12:45 **Autoantibody specificities and their implication in autoimmune disease**

Antonio Puccetti, Istituto Giannina Gaslini (Genoa)

12:45 **Wrap-up & Conclusions**

Alberto Martini