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   5. SM5 - Mast Cells in Innate and Acquired Immunity
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1 The path to ICI 2013

We, the Italian Society of immunology SIICA, have started working at the ICI 2013 over 10 years ago, in 2002. By the end of 2003 we presented to the IUIS, assisted by our PCO Triumph group, the bid for the ICI organization. Unfortunately, this bid was not selected at the 2004 ICI in Montreal, and the 14th ICI was organized in Kobe, Japan. We presented our bid again in 2007 in Rio, and this time SIICA was asked by IUIS to organize the ICI 2013 in Italy. The original plan was to hold the meeting in Rome but when the new Congress Center opened in Milan we decided to move it there. This proved to be an excellent choice. After a long preparation, the 15th ICI opened at the Milan Congress Center on August 27, 2013, and this report summarizes the key features of the meeting.
2 The ICI 2013 organisms

2.1 The Executive Board

Congress President
Luciano Adorini

Congress Honorary President
Sergio Romagnani

President SIICA
Vincenzo Barnaba

Congress Secretary General
Massimo Locati

Executive Board
Luciano Adorini
Sergio Romagnani
Massimo Locati
Vincenzo Barnaba
Marco Cassatella
Angela Santoni
Gianpietro Semenzato
Silvano Sozzani
Chairs of specific Committees
2.2 The organizing Committees

**Scientific Program Committee**
Chairs: Alberto Mantovani, Lorenzo Moretta
Components: Invited international advisors

**Finance Committee**
Chairs: Francesco Annunziato, Piergiuseppe De Berardinis, Marco Cassatella
Components: Armando Gabrielli, Angelo Vacca

**Workshops and abstracts Committee**
Chair: Luciano Adorini
Components: Carlo Pucillo, Raffaele Badolato, Francesco Annunziato, Vijay Kuchroo

**Satellite Meetings Committee**
Chair: Carlo Pucillo

**Local Committee**
Chairs: Francesca Granucci, Alberto Mantovani
Components: Sergio Abrignani, Maria Grazia Roncarolo, Maria Rescigno, Mario Colombo, Ruggero Pardi, Mario Clerici, Massimo Locati

**Award and Travel Grants Committee**
Chair: Marco Cassatella
Components: Vito Pistoia, Angela Santoni, Silvano Sozzani

**Meeting Advertisement Committee**
Chair: Carlo Agostini
2.3 Congress Secretariat

Professional Congress Organizer Triumph C&C
Via Lucilio, 60 - 00136 Roma
Tel. +39.06.35530311 FAX: +39.0335530264
Email: ici2013@triumphgroup.it
Website: www.triumphgroup.it

Congress Project Managers: Maria De Rosa & Livia Apa

Organizing Secretariat: Loredana Grande

Sponsorship & Exhibition Department: Isotta Provenzano
3 The Congress

3.1 Main congress themes

The ICI, with its high attendance and excellent scientific quality, is the key event in the field, and the ICI 2013 has continued this tradition, covering all aspects of Immunology, from the more traditional to the most innovative, with emphasis on technological innovations, translational aspects and clinical applications. A scientifically inspiring program has been assembled at ICI 2013 in a range of formats to cover a wide variety of interests and to provide the state of the art in all different facets of Immunology. Two introductory Immunology courses, one in basic and one in clinical immunology, and satellite symposia at several locations in Italy have complemented the scientific program.

The Congress, as evoked by the IUIS President Stefan Kaufmann in his welcome address, has not only served as a platform for communication and exchange of the most challenging state-of-the-art research among immunologists. It has also served as an impressive platform for making laypersons, the press and politicians aware of the importance of immunologic research for maintenance of well-being, and combat of major diseases, including infectious diseases, autoimmune diseases or allergic diseases.

The Scientific Committee of ICI 2013 has emphasized at the Congress the achievements and challenges of vaccination, likely the most important contribution of Immunology to human health, with wide-reaching social implications. In addition, the meeting has explored all fields of immunology, highlighting human immunology, translational and clinical immunology, and immunointervention.
3.2 The Congress schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Thursday, August 22</th>
<th>Friday, August 23</th>
<th>Saturday, August 24</th>
<th>Sunday, August 25</th>
<th>Monday, August 26</th>
<th>Tuesday, August 27</th>
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<td>07:00-08:00</td>
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<td>12:30-13:15</td>
<td>Lunch - time lectures</td>
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<td>13:30-14:00</td>
<td>Poster Discussion</td>
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<td>14:00-15:00</td>
<td>Industry Symposia</td>
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<tr>
<td>15:00-16:00</td>
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<tr>
<td>16:15-18:15</td>
<td>Workshops</td>
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<td>18:30-19:15</td>
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<td>19:30-20:00</td>
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<td>20:00-22:00</td>
<td>Welcome Reception</td>
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3.3 The Congress venue

All activities were held in the same building, thus optimizing the opportunity for delegates to move from one session to another, as guided by a web-based app provided to delegates which informed in real time on the ongoing activities in the different rooms.

**LEVEL +2 - South Wing**
- GOLD PLENARY
- AMBER ROOMS from 01 to 08
- BROWN ROOMS from 01 to 03
- SUITE ROOMS from 01 to 04
- TOWER LOUNGE
  - Speaker Center
- GOLD VIEW LOUNGE
  - VIP Speaker Lounge

**LEVEL +1 - South Wing**
- REGISTRATION:
  - Cloakroom
- OFFICES from 09 to 16

**LEVEL 0 - South Wing**
- EXHIBITION AREA
- POSTER AREA
- SPACE ROOMS from 01 to 04
3.4 The exhibitors’ area and the ICI 2013 Immunology Village

The exhibition area was located in the Congress venue and hosted all non-scientific activities and exhibitions, including the sponsors’ area (light green), the patients’ association booths (brown), the posters exhibition, and the ICI 2013 Immunology Village (red). This area also hosted the catering distribution, thus concentrating delegates in this area during the lunchbreaks and providing maximum visibility to sponsors and posters.
3.5 ICI 2013 diffusion

Printed material
Format A5 leaflets and 50 x 70 cm posters were distributed worldwide at a series of relevant major conferences throughout the year 2012. The Executive Board identified conferences and meetings fitting the themes of ICI 2013 and contacted the organizers to include printed material in the congress kit. Promotional material was also distributed at smaller meetings where SIICA members were participating as speakers or delegates. Finally, printed material was sent to selected SIICA members to be diffused in their institutions.

Electronic sponsoring
A number of digital marketing strategies were applied to promote the conference and to attract interest on the event as follows:

E-mail promotion campaign
E-mail campaigns have represented the easiest and most convenient method of communication to potential delegates. The help of National immunological societies was crucial for creating a robust email database. Using the “Newsletter” format, starting from 2011, information on the Conference and updates on the organization of ICI 2013 were regularly provided to an electronic mailing list including 15,000 selected addresses. In selected cases scientific societies or LinkedIn groups with relevant interest in immunology were asked to serve as reflector, sending a copy of our Newsletter to all of their subscribers.
Facebook and webpage blogging
A Facebook page was created. The page included progresses of the conference organization, highlights, and collateral events, and helped us to promote the conference via social media channels and contents. Furthermore, the Facebook page was linked to the webpage of the event (http://www.ici2013.org/home/). The ICI 2013 webpage has been also linked to various search engines (Google, Yahoo) and event directories (European Research Council, Science.Net, Congresses.Net, Future.Events, etc.) improving the visibility of the conference.

The ICI 2013 webpage will remain active until February 26th, 2014.

LinkedIn promotion
LinkedIn groups have represented a crucial way to reach and engage robust numbers of people potentially interested in the event. Groups with an interest in Immunology were identified through an in-depth evaluation of network groups participating to immunological discussion on LinkedIn pages (listed in the figure). Starting in the Summer 2012, we joined groups that included people with a potential interest in ICI 2013 to implement promotion of the event. A link to our event website and registration page was always included in our messages.

Involvement of meeting’s sponsors
We encouraged companies participating to ICI 2013 to promote the event. Some sponsors actively promoted ICI 2013 on their social media pages or distributed ICI 2013 leaflets to their customers.
3.6 Patronages

Alto Patronato della Presidenza della Repubblica

Ministero della Salute

Regione Lombardia

Provincia di Milano

Comune di Milano

Università degli Studi di Milano
4 Scientific activities

The scientific activities have been developed in six parallel tracks running daily:
- Innate immunity
- Immune receptors and signalling
- Adaptive immunity
- Host-pathogen interactions
- Immune-mediated disease pathogenesis
- Translational immunology and immunointervention

Each day the scientific program has featured:
- 2 plenary lectures (45’)
- 2 parallel lectures on Perspectives in Immunology (30’)
- 6 parallel symposia (one for each track; 120’)
- 7 parallel lunchtime lectures (45’)
- 2 workshop sessions (each with 12 parallel workshops; 90’)
- 1 poster session (100’)
- 2 tutorials (60’)
- Several sponsored satellite symposia

Overall, during the ICI 2013 delegates had the opportunity to enjoy 57 main lectures, 150 lectures in 30 symposia, 109 workshops with 658 oral presentations selected from 4451 presented abstracts, 5109 posters, and several sponsored satellite symposia and tutorials.
4.1 Lectures

Opening Ceremony Lecture OL.01
Jules Hoffmann (FRA) - Innate immunity: from flies to humans

Opening Ceremony Lecture OL.02
Rino Rappuoli (ITA) - Designing vaccines for the 21st century society

Perspectives in Immunology Lecture PS.01
Chair: Abul Abbas (USA)
Rolf Zinkernagel (CH) - On immunity or what immunology is all about

Perspectives in Immunology Lecture PS.02
Chair: Lorenzo Moretta (ITA)
Alain Fischer (FRA) - T cell immunodeficiencies

Perspectives in Immunology Lecture PS.03
Chair: Jeffrey A. Bluestone (USA)
Marc Feldmann (GBR) - Beyond anti-TNF therapy for rheumatoid arthritis: can we get close to a cure?

Perspectives in Immunology Lecture PS.04
Chair: Tak W. Mak (CAN)
Philippa Marrack (USA) - T cell receptors, their specificity and role in selection

Perspectives in Immunology Lecture PS.05
Chair: John Hamilton (AUS)
Siemon Gordon (GBR) - Macrophage receptors and immune activation

Perspectives in Immunology Lecture PS.06
Chair: Peter Parham (USA)
Peter C. Doherty (AUS) - Fifty years of cytotoxic T cells

Perspectives in Immunology Lecture PS.07
Chair: Fiona Powrie (GBR)
Tadamitsu Kishimoto (JPN) - Pathogenesis and therapy of autoimmune inflammatory diseases

Perspectives in Immunology Lecture PS.08
Chair: Andrea Velardi (ITA)
Max D. Cooper (USA) - Evolution of adaptive immunity

Perspectives in Immunology Lecture PS.09
Chair: Shimon Sakaguchi (JPN)
Herman Waldmann (GBR) - Harnessing tolerance mechanisms in the clinic

Perspectives in Immunology Lecture PS.10
Chair: Paul Herzog (AUS)
Tadatsugu Taniguchi (JPN) - Regulation of inflammatory responses by HMGB1 and classical cytokines

Plenary Lecture PL.01
Chair: Vishna Dixit (USA)
Shizuo Akira (JPN) - Mitochondrial transport by microtubule acetylation is essential to NLRP3-inflammasome activation

Plenary Lecture PL.02
Chair: Philippa Marrack (USA)
Ruslan M. Medzhitov (USA) - Inflammation and tissue homeostasis

Plenary Lecture PL.03
Chair: Peter C. Doherty (AUS)
Stefan H.E. Kaufmann (DEU) - On immunity in, biomarkers for, and vaccines against tuberculosis

Plenary Lecture PL.04
Chair: Siamon Gordon (GBR)
Alberto Mantovani (ITA) - Interactions between the cellular and the humoral arm of innate immunity

Plenary Lecture PL.05
Chair: Maria Grazie Roncarolo (ITA)
Shimon Sakaguchi (JPN) - Control of immune responses by regulatory T cells

Plenary Lecture PL.06
Chair: Marc Feldmann (GBR)
Antonio Lanzavecchia (CHE) - Dissecting the antibody response to pathogens and self antigens

Plenary Lecture PL.07
Chair: Marco Colonna (USA)
Diane J. Mathis (USA) - AIRE control of immunological tolerance: new twists

Plenary Lecture PL.08
Estimated number of participants: 3000
Chair: William Paul (USA)
Richard A. Flavell (USA) - The inflammasome in health and disease

Plenary Lecture PL.09
Estimated number of participants: 3300
Chair: Francis Balkwill (AUS)
Robert D. Schreiber (USA) - Cancer immunoediting: basic mechanisms and therapeutic implications

Plenary Lecture PL.10
Estimated number of participants: 1500
Chair: Andrew McMichael (GBR)
Sergio Romagnani - Human effector CD4+ T cells

Lunchtime lecture LL.01
Chair: David Hafler (USA)
Abul Abbas (USA) - Immunological tolerance: mechanisms and therapeutic applications

Lunchtime lecture LL.02
Chair: Eric Vivier (FRA)
Lorenzo Moretta (ITA) - Human NK cells: from basic research to the therapy of high risk leukemias

Lunchtime lecture LL.03
Chair: Matthew Albert (FRA)
Rafi Ahmed (USA) - T cell memory and exhaustion

Lunchtime lecture LL.04
Chair: Hannes Stockinger (AUS)
Paola Ricciardi Castagnoli (SGP) - NFAT control of innate immunity

Lunchtime lecture LL.05
Chair: Fred Alt (USA)
Jean Claude Weill (FRA) - Memory

Lunchtime lecture LL.06
Chair: Christine Biron (USA)
Hidde Ploegh (USA) - Cloned mice as immunological tools

Lunchtime lecture LL.07
Chair: Gordon Brown (GBR)
Yvette van Kooyk (NLD) - Glycans as Dendritic cell targeting strategy for the induction of immunity and tolerance

Lunchtime lecture LL.08
Chair: Alberto Mantovani (ITA)
Charles A. Dinarello (USA) - Blocking IL-1 to treat inflammatory conditions

Lunchtime lecture LL.09
Chair: Angela Santoni (ITA)
Marco Colonna (USA) - Innate lymphoid cells in mucosal immunity

Lunchtime lecture LL.10
Chair: Ruslan Medzhitov (USA)
Visnva Dixit (USA) - Recent progress in understanding inflammasome biology

Lunchtime lecture LL.11
Chair: Peter Cresswell (USA)
Tasuku Honjo (JPN) - Molecular mechanism for antibody memory generation

Lunchtime lecture LL.12
Chair: Ellis Reinherz (USA)
Tak W. Mak (CAN) - Immune homeostasis: tis death that makes life live

Lunchtime lecture LL.13 - *With the contribution of STEMCELL Technologies*
Chair: Cyrus Eduljee (CAN)
Norberto Zwirner (ARG) - Cytokine regulation of natural killer cell effector functions.

Lunchtime lecture LL.14
Chair: Arlene Sharpe (USA)
Bernard Malissen (FRA) - Toward an integrative biology of T cells and dendritic cells

Lunchtime lecture LL.15
Chair: Alexander Rudensky (USA)
Maria Grazia Roncarolo (ITA) - Immune tolerance mediated by T regulatory type 1 cells

Lunchtime lecture LL.16

Final report 15th ICI – Milan 2013
Chair: Antonio Lanzavecchia (CHE)
Andreas Radbruch (DEU) - The emerging diversity of immunological memory

Lunchtime lecture LL.17
Chair: David Wallach (ISR)
Peter Krammer (DEU) - Decisions of life and death

Lunchtime lecture LL.18
Chair: Marco Cassatella (ITA)
Clifford A. Lowell (USA) - Tyrosine kinases and phosphatases in inflammation and autoimmunity

Lunchtime lecture LL.19
Chair: Paola Ricciardi Castagnoli (SNG)
Xuetao Cao (CHN) - Cross-regulation of innate inflammatory response

Lunchtime lecture LL.20
Chair: Douglas Golenbock (USA)
Ricardo Gazzinelli (BRA) - Toxoplasma recognition by TLR11/TLR12 heterodimers: a tale of mice (cats) and men

Lunchtime Lecture LL.21
Chair: Gioacchino Natoli (ITA)
Joost Oppenheim (USA) - The defensin and HMGN1 alarmins have potent adjuvant effect

Lunchtime lecture LL.22
Chair: James Allison (USA)
Giorgio Trinchieri (USA) - The role of the commensal microbiota in regulating inflammation and cancer

Lunchtime lecture LL.23
Chair: Maria Rescigno (ITA)
Fiona Powrie (GBR) - Gut reactions: immune pathways that control intestinal homeostasis

Lunchtime lecture LL.24
Chair: Anne O’Garra (GBR)
Klaus Rajewsky (DEU) - Modeling Epstein-Barr virus pathologies, immune surveillance and human lymphomas in mice

Lunchtime lecture LL.25
Chair: Dmitry Gabrilovich (USA)
Frederic Geissmann (GBR) - Differentiation and functions of monocytes/macrophages

Lunchtime lecture LL.26
Chair: Vincenzo Barnaba (ITA)
Matthew Albert (FRA) - Chemokine antagonism: an in vivo mechanism for regulating inflammation during viral infection and tumorigenesis

Lunchtime lecture LL.27
Chair: Attila Mocsai (HUN)
John J. O'Shea (USA) - Helper cell specification: cytokines, transcription factors and the epigenome

Lunchtime lecture LL.28
Chair: Olja Finn (USA)
Riccardo Dalla Favera (USA) - Genetic determinants of B cell lymphoma transformation and immune escape

Lunchtime lecture LL.29
Chair: Ricardo Gazzinelli (BRA)
Alan Sher (USA) - IL-1 mediates host resistance to Mycobacterium tuberculosis through an eicosanoid pathway

Lunchtime lecture LL.30
Chair: Ronald Germain (USA)
Mark M. Davis (USA) - Immunology taught by humans

Lunchtime lecture LL.31
Chair: Vijiay Kuchroo (USA)
Anne O'Garra (GBR) - The immune response in tuberculosis: from mouse models to human disease

Lunchtime lecture LL.32
Chair: Sergio Romagnani (ITA)
Art Weiss (USA) - Regulation of signal transduction by the T cell antigen receptor

Lunchtime lecture LL.33
Chair: Cornelis Melief (NDL)
Francis Balkwill (GBR) - Targeting cancer related inflammation

Lunchtime lecture LL.34
Chair: Giuseppe Pantaleo (CHE)
Andrew McMichael (GBR) - A dance of death: HIV-1 and immunodominant T cells

Lunchtime lecture LL.35
Chair: Juan Rivera (USA)
Stephen J. Galli (USA) - Roles of mast cells and "allergic responses" in enhancing host resistance to venoms

Lunchtime lecture LL.36
Chair: Kathryn Wood (GBR)
Chris Goodnow (AUS) - The IgD enigma: removal of self-reactivity from antibodies on IgD⁺ IgMlow anergic B cells

Lunchtime lecture LL.37
Chair: Herman Walmann (GBR)
Bali Pulendran (USA) - Innate control of adaptive immunity by the integrated stress response
4.2 Symposia

TRACK A: Innate immunity
1. Myeloid cells
2. Innate immune sensors
3. Complement and soluble mediators
4. NK cells
5. Innate lymphocytes and mucosal immunity

TRACK B: Immune receptors and signaling
1. Leukocyte signaling
2. Genetic and epigenetic control
3. Cell trafficking
4. Costimulatory and inhibitory molecules
5. Imaging and cell interactions

TRACK C: Adaptive immunity
1. Lymphocyte development
2. T and B cell repertoires
3. Antigen processing and presentation
4. T and B cell subsets
5. Immune memory

TRACK D: Host-pathogen interaction
1. Microbial triggers for inflammation
2. Viral infections
3. Bacterial infections
4. Protozoal, fungal and helminth infections
5. Microbiome and microbe adaptation

TRACK E: Immune-mediated disease pathogenesis
1. Pathways in inflammatory diseases
2. Immunodeficiencies
3. Autoimmune mechanisms
4. Immune surveillance and tumor immunity
5. Allergy

TRACK F: Translational immunology and immunotherapy
1. Therapy of autoimmune and autoinflammatory diseases
2. Cancer immunotherapy
3. Gene and cell therapy
4. Vaccination
5. Tolerance and transplantation
Parallel Symposium S.1 - Pathways in inflammatory diseases
Chairs: Paola Allavena (ITA) - Yoichiro Iwakura (JPN)
S1.01 - Lars Klareskog (SWE) - Gene-environment interaction studies as a basis for unraveling specificity of adaptive immunity in rheumatoid arthritis
S1.02 - Frank Nestle (GBR) - Inflammatory skin disease: From pathways to targeted therapy
S1.03 - Jeffrey V. Ravetch (USA) - A general mechanism for modulating immunoglobulin effector activity
S1.04 - Suzanne Ostrand-Rosemberg (USA) - Tumor-induced myeloid-cell mediated immune suppression: it is all the RAGE
S1.05 - Mitchell Kronenberg (USA) - Regulation of inflammation and mucosal innate immunity by HVEM, a TNF super family receptor

Parallel Symposium S.2 - Therapy of autoimmune and autoinflammatory diseases
Chairs: Moncef Zouali (FRA) - Pierluigi Meroni (ITA)
S2.01 - Kevin J. Tracey (USA) - Neural circuitry regulating immunity: identification of T-ChAt as a discrete T cell subset
S2.02 - Roland Martin (DEU) - Antigen-specific tolerization approaches in multiple sclerosis - principles and recent data
S2.03 - David Wraith (GBR) - Negative feedback regulation of inflammatory autoimmune responses
S2.04 - Jeffrey A. Bluestone (USA) - Treg therapy in autoimmunity: preclinical and clinical experiences
S2.05 - Josef Smolen (AUT) - Treating rheumatoid arthritis: recent achievements and current prospects

Parallel Symposium S.3 - Microbial triggers for inflammation
Chairs: Lucienne Chatenoud (FRA) - Foo Y. Liew (GBR)
S3.01 - Gordon Brown (GBR) - C-type lectins and anti-fungal immunity
S3.02 - Dan R. Littman (USA) - Commensal microbe-dependent induction of effector T cells in the lamina propria
S3.03 - Gabriel Nunez (USA) - Regulation of pathogen colonization by virulence factors and the microbiota
S3.04 - Francesca Granucci (ITA) - Mechanisms and consequences of NFAT signaling pathway activation downstream of PRRs in innate immune cells
S3.05 - Giulio Superti Furga (AUT) - IFITs, TLRs and innate anti-viral molecular networks

Parallel Symposium S.4 - Leukocyte signaling
Chairs: Peter Murray (USA) - Pacho Sanchez Madrid (ESP)
S4.01 - Doreen Cantrell (GBR) - T cell metabolism and differentiation
S4.02 - Hua Yu (CHN) - STAT3 in tumor immune regulation: opportunities for clinical translation
S4.03 - Kai W. Wucherpfennig (USA) - Control of T cell signaling by membrane binding of TCR-CD3 ITAMs
S4.04 - Attila Mocsai (HUN) - Tyrosine kinases in leukocyte activation and migration
S4.05 - Oreste Acuto (GBR) - Proteomics of T cell signaling: seeing more and better

Parallel Symposium S.5 - Myeloid cells
Chairs: Angel Lopez (AUS) - Angel Corbi (ESP)
S5.01 - John Hamilton (AUS) - Colony stimulating factors and macrophage lineage phenotypes
S5.02 - Miriam Merad (USA) - The regulation of the dendritic cell lineage
S5.03 - Hans-Reimer Rodewald (DEU) - Origin of myeloid cells and their involvement in metabolism and inflammation
S5.04 - Marco Cassatella (ITA) - Uncovering the regulation of gene expression in human neutrophils
S5.05 - William Nauseef (USA) - Host vs. microbe in the human neutrophil phagosome

Parallel Symposium S.6 - Lymphocyte development
Chairs: Harald von Boehmer (USA) - Stephan Meuer (DEU)
S6.01 - Ellis L. Reinherz (USA) - Mechanotransduction processes involved in T cell development and cognate recognition
S6.02 - Ton Schumacher (NLD) - Analysis of antigen-specific T cell responses at the single cell level

Final report 15th ICI – Milan 2013
S6.03 - Bruno Kyewski (DEU) - Generating self-antigen diversity by genome scanning in single thymic epithelial cells
S6.04 - Kristen A. Hogquist (USA) - The role of self recognition in the development of various T cell subsets
S6.05 - Gennaro De Libero (SGP) - Butyrophilin 3A1 binds phosphorylated antigens and stimulates human γδ T cells

Parallel Symposium S.7 - Cancer immunotherapy
Chairs: Paola Zanovello (ITA) - Gunter Hammerling (DEU)
S7.01 - Olja J. Finn (USA) - Cancer immunosurveillance and immunoprevention
S7.02 - James P. Allison (USA) - Mobilizing the immune system to treat cancer: new insights and opportunities
S7.03 - Cornelia Melief (NLD) - Combination immunotherapy for established lesions caused by high risk human papilloma virus
S7.04 - Andrea Velardi (ITA) - Harnessing immunity to leukemia and infections after haploidentical hematopoietic transplantation
S7.05 - Drew M. Pardoll (USA) – Establishment of immunotherapy as the fifth pillar of cancer treatment

Parallel Symposium S.8 - Innate immune sensors
Chairs: Jerrold P. Weiss (USA) – Mohammed Daha (NDL)
S8.01 - Caetano Reis e Sousa (GBR) - Dendritic cells as innate immune sensors
S8.02 - Maya Saleh (CAN) - NLRs and inflammasomes in intestinal homeostasis, cancer and me
S8.03 - Alessandro Moretta (ITA) - Human NK cell receptors and pathogen infection
S8.04 - David H. Raulet (USA) - Variable natural killer cell receptors and human evolution
S8.05 - Giuseppe Pantaleo (CHE) - NK receptors in immune surveillance and inflammation

Parallel Symposium S.9 - Genetic and epigenetic control
Chairs: Peter D. Katsikis (USA) - Lionel B. Ivashkiv (USA)
S9.01 - Gioacchino Natoli (ITA) - A genomic framework for macrophage identity and functional specialization
S9.02 - Alexander Tarakhovsky (USA) - The control of the antiviral innate response by histone mimics
S9.03 - Luke O'Neill (IRL) - Metabolism, epigenetics and miRNAs: an unholy trinity controlling innate immunity
S9.04 - Sergio Abrignani (ITA) - Regulation of T lymphocyte effector functions by non-coding RNAs
S9.05 - Warren J. Leonard (USA) - The family of cytokines: from human disease to transcriptional regulation

Parallel Symposium S.10 - T and B cell repertoires
Chairs: Mitzi Nagarkatti (USA) - Fritz Melchers (DEU)
S10.01 - Yousuke Takahama (JPN) - The thymic microenvironments that shape T cell repertoire
S10.02 - Michael B. Brenner (USA) - iNKT T cells: innate lipid sensing T cells regulate inflammation
S10.03 - Meinrad Busslinger (AUT) - Transcriptional control of early B cell development
S10.04 - Frederick W. Alt (USA) - Long range elements that control mouse and human IgH V(D)J recombination and repertoires
S10.05 - Michel C. Nussenzweig (USA) - The human antibody response to HIV

Parallel Symposium S.11 - Viral infections
Chairs: Mario Clerici (ITA) - Elopy Sibanda (ZBW)
S11.01 - Stipan Jonjic (SLO) - Viral regulation of inhibitory and activating Ly49 receptors
S11.02 - Vincenzo Barnaba (ITA) - Viral infections, autoimmunity and immunoregulation
S11.03 - Christine A. Biron (USA) - Cytokine regulation of NK and CD8 T cell responses to acute viral infections
S11.04 - Giuseppe Pantaleo (CHE) - Role of T follicular helper cells in HIV infection
S11.05 - Bruce D. Walker (USA) - T cell control of HIV

Parallel Symposium S.12 - Immunodeficiencies
Chairs: Ridha Barbouche (TUN) - Anna Villa (ITA)
S12.01 - Steven M. Holland (USA) - GATA2 deficiency: one gene, many manifestations
S12.02 - Jean Laurent Casanova (USA) - Toward a genetic theory of childhood infectious diseases
S12.03 - Bodo Grimbacher (GBR) - How Satan smote Job: a novel genetic defect causing hyper IgE syndrome
S12.04 - Anne Durandy (FRA) - Molecular and functional delineation of human inherited immunoglobulin class switch recombination deficiencies
S12.05 - Luigi Notarangelo (USA) - Modeling primary Immune deficiencies with patient-derived induced pluripotent stem cells

Parallel Symposium S.13 - Autoimmune mechanisms
Chairs: Alberto Martini (ITA)
S13.01 - Eric Gershwin (USA) - Primary biliary cirrhosis: the environment and autoimmunity
S13.02 - Ethan Shevach (USA) - Control of dendritic cell function by T regulatory cells
S13.03 - Virginia Pascual (USA) - Novel B cell-helper pathways in human SLE
S13.04 - Reinhold E. Schmidt (DEU) - Innate mechanisms in antibody mediated autoimmune diseases
S13.05 - David A. Hafler (USA) - Regulatory T cells in autoimmune disease

Parallel Symposium S.14 - Gene and cell therapy
Chairs: Adrian Thrasher (GBR) – Carlo Riccardi (ITA)
S14.01 - Paola Romagnani (ITA) - Stem cell and kidney regeneration
S14.02 - Antonio Uccelli (ITA) - Mesenchymal stem cells modulate the immune response in vivo
S14.03 - Matthias Edinger (DEU) - Regulatory T cells in allogeneic stem cell transplantation
S14.04 - Masaru Taniguchi (JPN) - NKT cells as an ideal target for anti-tumor immunotherapy
S14.05 - Alessandro Aiuti (ITA) - Gene therapy for primary immunodeficiencies

Parallel Symposium S.15 - Cell trafficking
Chairs: Martin Lipp (DEU) - Mario Mellado (ESP)
S15.01 - Philip M. Murphy (USA) - Chemokines: tails from the clinic
S15.02 - Andrew D. Luster (USA) - Chemokine guidance in the lymph node imprints adaptive immune responses
S15.03 - Silvano Sozzani (ITA) - Role of the atypical chemokine receptor CCRL2 in immune responses
S15.04 - Klaus Ley (USA) - Toward an antigen-specific therapy for atherosclerosis
S15.05 - Kouji Matsushima (JPN) - Dynamisms and regulation of tumor-associated myeloid cells

Parallel Symposium S.16 - Antigen processing and presentation
Chairs: Emil Unanue (USA) - Kenneth Rock (USA)
S16.01 - Jacques Neefjes (NLD) - Genome-wide analyses defines new factors controlling MHC class I and MHC class II antigen presentation
S16.02 - Peter Cresswell (USA) - Molecular aspects of MHC class I-restricted antigen processing
S16.03 - Jose Villadangos (AUS) - Regulation of antigen presentation in the dendritic cell network
S16.04 - Sebastian Amigorena (FRA) - Antigen crosspresentation in dendritic cells
S16.05 - Muriel Moser (BEL) - Regulatory T cells control Th1 priming by inhibiting CD70 expression: a role for intercellular transfer of CD27?

Parallel Symposium S.17 - Complement and soluble mediators
Chairs: Marina Botto (GBR) - Mariagrazia Uguccioni (CHE)
S17.01 - John Lambris (USA) - The Renaissance of complement
S17.02 - Teizo Fujita (JPN) - Functional aspect of the lectin complement pathway
S17.03 - Seppo Meri (FIN) - Trick or treat - how pathogens handle the complement system
S17.04 - Francesco Tedesco (ITA) - The complement system: friend or foe?
S17.05 - Paul Herzog (AUS) – A unique type I interferon regulates mucosal innate immune responses in the female reproductive tract

Parallel Symposium S.18 - Bacterial infections
Chairs: Francesco Dieli (ITA) - Giuseppe Teti (ITA)
S18.01 - Russell E. Vance (USA) - Activation of inflammasomes by bacterial pathogens
S18.02 - Jurgen Ruland (DEU) - CARD9 signaling complexes in innate immunity
S18.03 - Robert L. Modlin (USA) - Type I interferon suppresses type II interferon-triggered human anti-mycobacterial responses
S18.04 - Francesco Dieli (ITA) - HLA-E-restricted recognition of Mycobacterium tuberculosis by human CD8 T lymphocytes
S18.05 - Willem Hanekom (ZAF) - Human correlates of risk of TB disease

Parallel Symposium S.19 - Immune surveillance and tumor immunity
Chairs: Anne Ostergaard (CAN) - Wolf H. Fridman (FRA)
S19.01 - Jerome Galon (FRA) - From the immune contexture to the immunoscore in the era of cancer immunotherapy
S19.02 - Gabriel Rabinovich (ARG) - Regulatory circuits in autoimmunity and cancer mediated by lectins and glycanes
S19.03 - Mario Colombo (ITA) - Neutrophils bridges autoimmunity and cancer
S19.04 - Vincenzo Bronte (ITA) - Molecular regulation of innate immunity in tumor microenvironment
S19.05 - Dmitry I. Gabriovich (USA) - Myeloid-derived suppressor cells in regulation of immune responses in cancer

Parallel Symposium S.20 - T and B cell subsets
Chairs: Tim R. Mosmann (USA) – Kenneth M. Murphy (USA)
S20.01 - William E. Paul (USA) - Cytokines and CD4 T cells: dance partners at the immunology ball
S20.02 - Vijay K. Kuchroo (USA) - Transcriptional network controlling Th17 development
S20.03 - Francesco Annunziato (ITA) - Epigenetic mechanisms in the regulation of human Th17 plasticity
S20.04 - Alexander Y. Rudensky (USA) - Regulatory T cells in control of inflammation
S20.05 - Kenneth M. Murphy (USA) - Development and function of dendritic cell subsets

Parallel Symposium S.21 - NK cells
Chairs: Klas Kärre (SWE) - Hans Gustaf Ljunggren (SWE)
S21.01 - Wayne M. Yokoyama (USA) - NK cell biology in innate immunity
S21.02 - Miguel Lopez-Botet (ESP) - Adaptive reconfiguration of the human NK-cell compartment in response to cytomegalovirus
S21.03 - Angela Santoni (ITA) - NK cell-mediated immune surveillance of senescent cells
S21.04 - Eric Vivier (FRA) - Natural killer cells, innate lymphoid cells and Immunity
S21.05 - Bruno Silva-Santos (POR) - Molecular mechanisms of differentiation of gamma-delta T lymphocytes

Parallel Symposium S.22 - Costimulatory and inhibitory molecules
Chairs: Susan Swain (USA) - Ronald H. Schwartz (USA)
S22.01 - Yong-Jun Liu (USA) - Targeting OX40 to block Treg in Cancer
S22.02 - David Sansom (GBR) - The role of CTLA-4 in regulating T cell responses
S22.03 - Mauro Perretti (GBR) - Neutrophil micro particles activates tissue protective signals
S22.04 - Massimo Locati (ITA) - Immune function and mechanism of action of atypical chemokine receptors
S22.05 - Arlene Sharpe (USA) - The multifaceted functions of the PD-1 pathway in controlling T cell activation and tolerance
Parallel Symposium S.23 – Vaccination
Chairs: Giuseppe Del Giudice (ITA) - Oliver O. Perez (CUB)
S23.01 - Julie Magarian Blander (USA) - Vita-PAMPs: signatures of microbial viability
S23.02 - Robert L. Coffman (USA) - Development of TLR9 agonists as vaccine adjuvants
S23.03 - Adrian Hill (GBR) - Progress with T cell inducing vaccines against intracellular pathogens
S23.04 - Jorge Kallil (BRA) - From molecular immunopathogenesis of rheumatic fever to the development of a vaccine against streptococcus pyogenes
S23.05 - Karolina Palucka (USA) - Reprogramming the immune environment in cancer via dendritic cells

Parallel Symposium S.24 - Protozoal, fungal and helminth infections
Chairs: Kenji Nakanishi (JPN) – Luigina Romani (ITA)
S24.01 - Rick Maizels (GBR) - Impact of Helminth Parasites on Immune Regulation and Immunity.
S24.02 - Douglas Golenbock (USA) - DNA drives innate immune responses in malaria
S24.03 - Luigina Romani (ITA) - The host-mycobioma interactions in health and diseases
S24.04 - Judith Allen (GBR) - Macrophage activation and function during helminth infection
S24.05 - Mauro Teixeira (BRA) - Can we develop anti-inflammatory drugs for infectious diseases?

Parallel Symposium S.25 - Innate lymphocytes and mucosal immunity
Chairs: Kinston Mills (IRL) - Frances Brodsky (USA)
S25.01 - Hergen Spits (NDL) - Characteristics of human innate lymphoid cells in health and disease
S25.02 - Andrea Cerutti (ESP) - Regulation of adaptive antibody responses by the innate immune system
S25.03 - Kenya Honda (JPN) - Regulation of Th17 and Treg cells by the gut microbiota
S25.04 - Hilde Cheroutre (USA) - Innate lymphocytes and mucosal immunity
S25.05 - Maria Rescigno (ITA) - Complex interactions among immune and non-immune cells in the gut

Parallel Symposium S.26 - Microbiome and microbe adaptation
Chairs: Elizabeth A. Grice (USA) - Joel Dorè (FRA)
S26.01 - Yasmine Belkaid (USA) - Commensal control of tissue immunity
S26.02 - Sidonia Fagarasan (JPN) - Symbiotic regulatory loop between T cells, IgA and gut microbiota
S26.03 - Mihai Netea (NDL) - Trained immunity: innate immune imprinting of host-microbe interaction
S26.04 - Alessandro Sette (USA) - Insights in mechanisms of immunopathology derived from genomic screens of immunoreactivity to dengue virus and Mycobacterium tuberculosis
S26.05 - Rachel R. Caspi (USA) - The endogenous microbiome controls development of spontaneous autoimmunity to immunologically privileged neuroretina

Parallel Symposium S.27 - Immune memory
Chairs: Francesca Di Rosa (ITA) - Stephen P. Schoenberger (USA)
S27.01 - Nicholas Restifo (USA) - Transcriptional and epigenetic control of T cell differentiation
S27.02 - Federica Sallusto (CHE) - Class and specificity of the human T cell response to commensals, pathogens, and allergens
S27.03 - Marc K. Jenkins (USA) - Origins of CD4+ memory T cells
S27.04 - David Gray (GBR) - Tfhi heterogeneity, memory and plasma cell survival niches
S27.05 - Stephen P. Schoenberger (USA) - Cellular and molecular regulation of T help for CTL

Parallel Symposium S.28 - Imaging and cell interactions
Chairs: Antonella Viola (ITA) - Sarah Russell (AUS)
S28.01 - Mike L. Dustin (USA) - Getting to the center of the immunological synapse
S28.02 - Reinhold Förster (DEU) - Killing me softly: how cytotoxic T cells destroy virus-infected target cells in vivo
S28.03 - Ronen Alon (ISR) - Endothelial cues for lymphocyte recruitment to effector sites
S28.04 - Luca Guidotti (ITA) - Visualizing and regulating the traffic of pathogenic CD8' T cells within the liver

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S28.05 - Ronald Germain (USA) - Using advanced dynamic and multiplex static imaging to probe innate and adaptive immunity in vivo

Parallel Symposium S.29 - Allergy
Chairs: Francesca Levi Shaffer (ISR) - Walter Canonica (ITA)
S29.01 - Cezmi Akdis (CHE) - Role of tissues in immune regulation in allergic inflammation
S29.02 - Juan Rivera (USA) - The high affinity receptor for IgE: Novel discoveries in signaling and function
S29.03 - Gianni Marone (ITA) - Mast cells are master cells not only in allergy
S29.04 - Bart Lambrecht (GBR) - Epithelial cell – DC interaction in asthma
S29.05 - Rudolf Valenta (AUT) - From allergen genes to allergy vaccines

Parallel Symposium S.30 - Tolerance and transplantation
Chairs: Claudio Ponticelli (ITA) – Andrea Biondi (ITA)
S30.01 - Kathryn Wood (GBR) - Immunoregulation in transplantation
S30.02 - Megan Sykes (USA) - Mechanisms of tolerance in patients receiving combined kidney and bone marrow transplantation
S30.03 - Narinder Mehra (IND) - Clinical and immunological relevance of antibodies in transplantation
S30.04 - Harvey Cantor (USA) - Regulatory T-cells: therapeutic targets of opportunity
4.3 Workshops

TRACK A: Innate immunity
1. Granulocytes
2. Mast cells
3. NK cells and NK receptors
4. NKT cells
5. Innate lymphocytes
6. Macrophages
7. Effector functions of phagocytes
8. Dendritic cell subsets
9. Dendritic cell differentiation and function
10. Innate sensors
11. Toll-like and pattern recognition receptors
12. Lectins and glycoimmunology
13. Fc and Fc-like receptors
14. Inflammatory and regulatory cytokines
15. Inflammasome
16. Complement system
17. Allergic mediators

TRACK B: Immune receptors and signaling
1. Leukocyte signalling
2. Nuclear receptors
3. Epigenetic control of immune responses
4. MicroRNAs in immune regulation
5. Immune responses in aging
6. Leukocyte trafficking
7. Peripheral tolerance and lymphocyte anergy
8. Antigen receptor signaling
9. MHC and other polymorphic genes in health and disease
10. Cell death in the immune system
11. Autophagy

TRACK C: Adaptive immunity
1. Lymphoid organogenesis and lineage commitment
2. Role of the stroma in innate and adaptive immunity
3. Thymic selection and T cell development
4. Genetic rearrangements of lymphocyte receptors
5. Antigen processing and presentation
6. Costimulation
7. B cell development and plasma cell differentiation
8. Th1 cells
9. Th2 cells
10. Th17 cells
11. Gamma-delta T cells
12. Follicular helper T cells
13. Regulatory T cells: basic aspects
14. B cells in autoimmunity and regulatory B cells
15. B and T cell memory

**TRACK D: Host-pathogen interaction**
1. Immunity to virus infection
2. Liver viral infections
3. HIV pathogenesis and immunity
4. Immunity to bacterial infection (excluding mycobacteria)
5. Immunity to mycobacterial infection
6. Immunity to fungal infection
7. Immunity to helmint infection
8. Immunity to protozoan parasite infection
9. Malaria pathogenesis and vaccines
10. Immunity to emerging infectious diseases
11. Microbiome
12. Gut flora and inflammation
13. Immune regulation at barrier sites
14. Host genetics and pathogens

**TRACK E: Immune-mediated disease pathogenesis**
1. Cytokine regulation in disease
2. Chronic inflammation and fibrosis
3. Genetics of autoimmunity
4. Genetic factors and epidemiology of allergic diseases
5. Environmental factors in autoimmunity and allergy
6. Regulatory T cells in autoimmunity and allergy
7. Animal models of autoimmunity
8. Atherosclerosis and cardiovascular diseases
9. Neuroimmunology
10. Multiple sclerosis
11. Osteoimmunology
12. Rheumatoid arthritis and other inflammatory joint diseases
13. Ocular immunity
14. Psoriasis and skin diseases
15. Scleroderma and systemic sclerosis
16. Liver immunology
17. Autoinflammatory diseases
18. Inflammatory bowel diseases
19. Reproductive immunology
20. Tumor immunity and immunosurveillance
21. Myelo- and lympho-proliferative disorders
22. Primary immunodeficiencies of innate immunity
23. Primary immunodeficiencies of adaptive immunity

**TRACK F: Translational immunology and immunotherapy**

1. Immunomodulation by nutrients and vitamins
2. Metabolism and immunity interfaces
3. Pathogenesis and immunointervention in diabetes
4. Treatment of rheumatoid arthritis and other inflammatory joint diseases
5. Prevention and intervention in allergy
6. Cancer immunotherapy and anti-tumor vaccines
7. Cell-based therapy
8. Stem cells in immunity
9. Vaccine adjuvants
10. Mucosal vaccines
11. Vaccination and immunotherapy for infectious diseases
12. Organ transplantation
13. Bone marrow transplantation and graft versus host disease
14. Immunosuppressive and tolerogenic treatments
15. Immunopharmacology
16. Biomarkers and clinical profiling of human immune responses

**Workshops on specific items**

1. Imaging of the immune system
2. Systems immunology
3. Structural biology in immunology
4. Theoretical immunology
5. Evolution of the immune system
6. Comparative immunology
7. Veterinary immunology
8. Invertebrate immunity
9. Humanized mice
W1.01 - Granulocytes

**Chairs:** Analia Trevani (ARG) - Veronique Witko-Sarsat (FRA)

**IL1.01.01 - Role of NADPH oxidase-derived reactive oxygen species in human neutrophil IL-1β secretion**

M.L. Gabelloni, F. Sabbione, C. Jancic, I. Keitelman, L. Iula, M. Oleastro, J. Geffner, **Analia Trevani.** Buenos Aires, Argentina

**IL1.01.02 - Characterization of cytosolic proliferating cell nuclear antigen (PCNA) in neutrophils: anti-apoptotic role of the monomer**

A. De Chiara, **Veronique Witko-Sarsat.** Paris, France

**W1.01.01 - Chromatin configurations correlate with the differential capacity of human neutrophils and monocytes to express IL-6 in response to LPS**

Maili Zimmermann, N. Tamassia, M. Castellucci, M. Rossato, F. Bazzoni, M.A. Cassatella. Verona, Italy

**W1.01.02 - Influence of CD137L signalling in myelopoiesis during acute and chronic inflammation**


**W1.01.03 - Neutrophils have a negative impact on DC activation and disease progression following Leishmania major infection**


**W1.01.04 - Commensal flora signalling through MyD88 is necessary for systemic neutrophilic inflammatory responses**

D. Karmarkar, K.L. Rock, **Suchita Nadkarni.** Worcester, USA

**W1.01.05 - Neutrophil Extracellular Trap formation in the pathogenesis of Staphylococcus aureus sepsis**

Elzbieta Kolaczkowska, P. Kubes. Calgary, Canada

**W1.01.06 - Activated basophils form extracellular DNA traps able to kill bacteria**

Mahbubul Morshed, D. Simon, T. Kaufmann, R. Flushchuk, V. Djonov, H. Simon, S. Yousefi. Bern, Switzerland

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W1.02 - Mast cells

**Chairs:** Carlo Pucillo (ITA) - Marika Sarfati (CAN)

**IL1.02.01 - Mast cells and regulatory cells: a dialogue that can last a lifetime**

Carlo Pucillo. Udine, Italy

**IL1.02.02 - Basophils: new key players in lung and intestinal Th2 or Th17-associated chronic inflammatory disorders**

Marika Sarfati. Montreal, Canada

**W1.02.01 - Seven color flow cytometry analyses of Allergin-1 expression and function on human primary bronchoalveolar and nasal mast cells**

Kei Nagai, S. Tahara-Hanaoka, A. Shibuya. Tsukuba, Japan

**W1.02.02 - Soluble CD14 is necessary for LPS-mediated signalling in human intestinal mast cells**

Sibylle A. Brenner, S.C. Bischoff, A. Lorentz. Stuttgart, Germany

**W1.02.03 - Siglec-7 is an inhibitory receptor on human mast cells**

Sa’ar Mizrahi, B.F. Gibbs, L. Karra, M. Ben-Zimra, F. Levi-Schaffer. Jerusalem, Israel

**W1.02.04 - The S1P/S1PR2 axis controls T-cell infiltration in a mast cell-dependent mouse model of acute pulmonary inflammation**

M.M. Price, Y.T. Falanga, J.J. Ryan, R. Sabbadini, S. Spiegel, **Carole A. Oskeritzian.** Columbia, USA

**W1.02.05 - IgE-dependent mast cell hyperplasia in the intestine of cystic fibrosis mouse model needs KCNN4 channel activity**

T.T. Riquelme, L.P. Cid, F.V. Sepúlveda, **Carlos A. Flores.** Valdivia, Chile

**W1.02.06 - Mast cells determine the adaptive immune response in contact hypersensitivity**

Anne Dudeck, J. Dudeck, M. Gunzer, A. Roers. Dresden, Germany

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W1.03 - NK cells and NK receptors

**Chairs:** Cristina Bottino (ITA) - Gunnur Deniz (TUR)

**IL1.03.01 - Cross-talk between human natural killer cells and macrophages**
F. Bellora, R. Castriconi, A. Doni, A. Mantovani, A. Pessino, A. Moretta, Cristina Bottino. Genova, Italy
IL1.03.02 - Functionally distinct subsets of human NK cells

Gunnur Deniz. Istanbul, Turkey
W1.03.01 - NK cell subsets isolated from human thymus differ from peripheral blood NK cells in their phenotype and their cytotoxic and cytokine secreting capabilities
W1.03.02 - Neuraminidase-mediated NKP46-dependent immune evasion mechanism of influenza viruses
Yotam Bar-On, O. Mandelboim. Jerusalem, Israel
W1.03.03 - NK cells from malignant pleural effusions are not anergic but produce cytokines and display strong anti-tumor activity on short-term IL-2 activation
Paola Vacca, S. Martini, L. Moretta, M.C. Mingari. Genoa, Italy
W1.03.04 - Unique CD56bright CD16+ NK cells infiltrate regional metastatic lymph nodes from stage III melanoma patients
W1.03.05 - NK cells targeting of human and mouse Cancer Initiating Cells
Rossana Tallerico, S. Di Franco, C. Maccalli, L. Conti, S. Lanzardo, C. Garofalo, R. Sottile, M. Todaro, G. Stassi, F. Cavallo. Catanzaro, Italy
W1.03.06 - Novel mouse models reveal how expression of NKG2D and its ligands on various cell subsets affects immune responses
Maelig G. Morvan, M. Champsaure, N.L. Johnson, V. Sexl, L.L. Lanier. San Francisco, USA
W1.03.07 - Regulation of the activating NKP30 ligand B7-H6 in tumor cells
W1.03.08 - Human M1 macrophages activate resting NK cell antitumoral activities through IL-15/IL-15RA transpresentation
Irene Mattiola, M. Pesant, P. Tentorio, D. Mavilio, M. Locati. Milan, Italy
W1.03.09 - Innate immunity driving tumor angiogenesis: the role of NK cells in non-small cell lung cancer
W1.03.10 - Defining the lethal hit: Perforin forms transient pores on the target cell plasma membrane to facilitate rapid access of granzymes during killer cell attack
W1.03.11 - Gap Junction intercellular communication induces NK cell activation and modulates cytotoxic capacity
W1.03.12 - Analyzing and modeling the dynamics of differentiating and adoptively transferred NK cells in patients undergoing hematopoietic stem cell transplantation
M. Killig, B. Friedrichs, J. Meisig, M. Luetke-Eversloh, L. Uharek, Chiara Romagnani. Berlin, Germany
W1.04 - NKT cells
Chairs: Agnes Lehuen (FRA) - Tanya J. Webb (USA)
IL1.04.01 - Regulatory role of iNKT cells, from viral infection to type 1 diabetes
**IL1.04.02 - Therapeutic potential of NKT cell adjuvant-based therapies for the treatment of B-cell lymphoma**


**W1.04.01 - Development of MAIT cells in the human fetus**


**W1.04.02 - miRNA regulation of iNKT cell development**


**W1.04.03 - The role of NKT cell TCR β-chain on antigen specificity**


**W1.04.04 - Bacterial CD1d restricted glycolipids induce IL-10 production by human Tregs upon crosstalk with iNKT cells**


**W1.04.05 - CD1d-restricted phosphatidic acid-reactive T cells selectively inhibit glycolipid-reactive T cells and protect against inflammatory liver disease**

Ramesh C. Halder, C. Tran, R.R. Singh. Los Angeles, United States

**W1.05 - Innate lymphocytes**

Chairs: Paolo Dellabona (ITA)

IL1.05.01 - Functional Education of iNKT Cells by Dendritic Cell Tuning of SHP-1

Paolo Dellabona, A. Napolitano, G. Casorati. Milano, Italy

W1.05.01 - TSLP induces corticosteroid resistance of natural helper cell and evokes severe asthma.

Kazuyo Moro, H. Kabata, K. Asano, S. Koyasu. Yokohama, Japan

W1.05.02 - Group 2 innate lymphocytes are critical for Th2 cell-mediated allergic lung inflammation.

T.Y.F. Halim, L. Matha, C.A. Steer, F. Takei, Itziar Martinez-Gonzales. Vancouver, Canada

W1.05.03 - Identification of IL-17"ROTYC34" lineage-committed progenitors of IL-22"TROTYC34" innate lymphoid cells

Elisa Montaldo, L.G. Teixeira, L. Moretta, M.C. Mingari, C. Romagnani. Genoa, Italy

W1.05.04 - T-bet is required for the development of NKp46" innate lymphoid cells via a Notch-dependent pathway

Lucille C. Rankin. Parkville, Australia

W1.05.05 - Reduced MAIT cell frequency associated with enhanced cell death in systemic lupus erythematosus

Asako Chiba, N. Tamura, E. Hayashi, R. Matsudaira, T. Yamamura, Y. Takasaki, S. Miyake. Tokyo, Japan

W1.05.06 - The SLAM family receptor Ly9 (CD229) is a negative regulator of marginal zone B cells response

Marta Cuenca, X. Romero, J. Sintes, P. Engel. Barcelona, Spain

**W1.06 - Macrophages**

Chairs: Antonio Sica (ITA) - Subhra Biswas (SGP)

W1.06.01 - Stabilin-1/CLEVER-1 defines an immune suppressive monocyte population

Senthil Palani, K. Elima, M. Salmi, S. Jalkanen. Turku, Finland

W1.06.02 - Mice depleted of LyzM" macrophages develop chronic inflammation and deregulated adaptive immunity


W1.06.03 - Glucocorticoid-induced leucine zipper (GILZ) inhibits inflammatory activation in macrophages via reduced MAPK signalling: role in endotoxin tolerance

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W1.06.04 - CD300a is a new hypoxia-inducible gene and a regulator of proinflammatory cytokine production in human monocytes and macrophages

Federica Raggi, F. Blengio, L. Varesio, M. Bosco. Genoa, Italy
W1.06.05 - Physical interaction between miR-155 and miR-146a gene loci: Co-regulation during macrophage activation and induction of endotoxin tolerance

Christina Doxaki, A. Eliopoulos, C. Spilianakis, C. Tsatsanis. Heraklion, Greece
W1.06.06 - Single cell dynamics of macrophage activation and signalling

James S. Bagnall, L. Schmidt, D. Spiller, M.R.H. White, P. Paszek. Manchester, United Kingdom
W1.06.07 - Revisiting the ontogeny of the mononuclear phagocyte system: embryonic and adult hematopoietic contributions

G. Hoeffel, Florent Ginhoux. Singapore, Singapore
W1.06.08 - CX3CR1hi Ly6C- monocytes play an anti-inflammatory role during liver inflammation

W1.06.09 - Targeting MIF/CD74 signalling pathway to dampen acute inflammation in autoimmune diabetes

Hannelie Korf, B. Stijlemans, K. Ciotkowski, J. Laureys, M. Gilis, C. Gysemans, C. Mathieu. Leuven, Belgium
W1.06.10 - Role of M1 and M2 macrophages in phagocytosis and degradation of amyloid-beta in Alzheimer’s disease transgenic mice

Harald Lund, X. Zhang, R.A. Harris. Stockholm, Sweden
W1.06.11 - IL-17 receptor A regulates renal inflammation and aggravates fibrosis

Shuwang Ge, B. Hertz, H. Haller, S. von Vietinghoff. Hannover, Germany
W1.06.12 - IL-4 stimulates macrophage soluble Flt-1 and inhibits murine experimental choroidal neovascularisation

W1.06.13 - CCR2 expression by macrophages promotes tumor progression through induction of IL-10 production

Nicoletta Caronni, B. Savino, M. Locati, R. Bonecchi. Milan, Italy
W1.06.14 - Matrix reprogramming of immune cells and its disturbance in tumor

Igor Malyshev. Moscow, Russian Federation

W1.07 - Effectors functions of phagocytes (joint with Society of Leukocyte Biology)

W1.07.01 - STIM2 is the essential STIM protein in non-SOCE calcium responses of macrophages in vitro and in vivo

W1.07.02 - Glomerular deposition of myeloperoxidase and NETs in human anti ANCA associated vasculitis correlates with DTH effector cell accumulation

W1.07.03 - Leishmania inhibits antigen crosspresentation by cleaving VAMP8

N. Moradin, D. Matheoud, M. Desjardins, Albert Descoteaux. Laval, Canada
W1.07.04 - The inhibitory effect of secretory leukocyte protease inhibitor (SLPI) on formation of neutrophil extracellular traps

Katarzyna Zabieglo, A. Wlodarczyk, M. Kapinska-Mrowiecka, A. Dubin, J. Cichy. Krakow, Poland
W1.07.05 - The role of iRhom2 (rhbd2) during immune activation

W1.07.06 - FAM19A4: a novel cytokine promotes phagocytosis of zymosan but negatively regulates TNF-α secretion associated with NF-κB pathway in macrophages

Wenyan Wang, P. Wang, T. Li, X. Wang, W. Yuan, H. Zhang, Y. Zhang, D. Ma, W. Han. Beijing, China
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<td>W1.08</td>
<td>Dendritic cell subsets</td>
<td>Michel Gilliet (CHE) - Franca Ronchese (NZL)</td>
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<td>W1.08.01</td>
<td>Increased numbers of monocyte-derived DC in the lymph node during successful tumor treatment with immune activating agents</td>
<td>S. Kuhn, E. Hyde, F. Rich, J. Harper, J. Kirman, Franca Ronchese. Wellington, New Zealand</td>
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<td>W1.08.02</td>
<td>Characterization of human afferent lymph dendritic cells from seroma fluids</td>
<td>Barbara Morandi, I. Bonaccorsi, R. Conte, G. Costa, R. Iemmo, S. Ferrone, C. Cantoni, M. Mingari, L. Moretta, G. Ferlazzo. Genoa, Italy</td>
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<td>W1.08.03</td>
<td>Plasmacytoid, conventional and monocyte-derived dendritic cells undergo a profound and convergent genetic reprogramming during their maturation</td>
<td>T. Vu Manh, Y. Alexandre, T. Baranek, K. Crozat, Marc Dalod. Marseille, France</td>
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<td>W1.09</td>
<td>Dendritic cell differentiation and function</td>
<td>Guido Ferlazzo (ITA) - Pamela Ohashi (CAN)</td>
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<td>IL1.09.01</td>
<td>Dendritic cells identified in the human system</td>
<td>Guido Ferlazzo. Messina, Italy</td>
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<td>IL1.09.02</td>
<td>Molecular regulators of DC function</td>
<td>Pamela S. Ohashi, E.F. Lind, D. Johnson, D. Dissanayake. Toronto, Canada</td>
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<td>IL1.09.03</td>
<td>Defining dendritic cells by ontogeny</td>
<td>Barbara Schraml, J. van Blijswijk, S. Zelenay, P. Whitney, A. Filby, N. Rogers, C. Reis e Sousa. London, United Kingdom</td>
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<td>IL1.09.04</td>
<td>Unraveling the fingerprint of human tolerogenic DC-10, a dendritic cell subset involved in the establishment of peripheral tolerance</td>
<td>M. Comi, D. Tomasoni, M. Villa, M. Pala, M. Floris, A. Bulfone, M. Roncarolo, Silvia Gregori. Milan, Italy</td>
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<td>IL1.09.05</td>
<td>In vivo roles of XC chemokine receptor 1-expressing dendritic cells</td>
<td>Tomokazu OHTA, H. Hemmi, C. Yamazaki, M. Sugiyama, I. Sasaki, K. Hoshino, T. Kaisho. Suita, Japan</td>
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<td>IL1.09.06</td>
<td>Resident CD11b+Ly6C− lung dendritic cells are responsible for allergic airway sensitization to house dust mite in mice</td>
<td>C. Mesnil, C.M. Sabaté, T. Marichal, M. Toussaint, D. Cataldo, P. Drion, P. Lekeux, F. Bureau, Christophe J. Desmet. Liège, Belgium</td>
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<td>W1.09.02</td>
<td>Lymphatic endothelium forms integrin-engaging 3D structures during DC transit across inflamed lymphatic vessels</td>
<td>Álvaro Teijeira, S. Garasa, R. Pelaez, C. Aubá, C. Alfaro, R. Magda, S. Vallituti, R. Ana, M. Ignacio. Pamplona, Spain</td>
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<td>W1.09.03</td>
<td>MyD88 signalling drives steady-state intestinal CD103+ DC migration to draining mesenteric lymph nodes</td>
<td>Karin Hägerbrand, B. Johansson-Lindbom, W. Agace. Lund, Sweden</td>
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<td>W1.09.04</td>
<td>IL-27 in human secondary lymphoid organs attracts myeloid DC and impairs their HLA class I-restricted antigen processing and presentation</td>
<td>Fabio Morandi, E. Di Carlo, S. Ferrone, V. Pistoia, I. Airoldi. Genoa, Italy</td>
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<td>W1.09.05</td>
<td>The kindlin-3-beta2 integrin interaction controls DC activation and Th1/Th2 priming</td>
<td>Vicky L. Morrison, M. MacPherson, K. Grzes, P. Cook, C. Gawden-Bone, A. Prescott, A.S. MacDonald, S.C. Fagerholm. Dundee, United Kingdom</td>
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<td>W1.09.06</td>
<td>Deletion of IL-4 receptor alpha on DCs renders mice hypersusceptible to Leishmania major infection</td>
<td>Frank Brombacher. Cape Town, South Africa</td>
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<td>W1.09.07</td>
<td>Chronic hypoxia reprograms human immature DCs by inducing a proinflammatory phenotype and TREM-1 expression</td>
<td>Daniele Pierobon, M.C. Bosco, F. Blengio, F. Raggi, A. Eva, T. Musso, F. Novelli, P. Cappello, L. Varesio, M. Giovarrelli. Turin, Italy</td>
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| W1.09.08 | The mitochondrial protein, TCAIM, abolishes T cell priming of DCs by inhibiting TLR-
induced IL-2 expression


W1.09.09 - PAF induces regulatory DCs through two independent mechanisms: amplification of COX2/PGE2 loop and induction of IL10

Marianna M. Koga, F.J.O. Rios, B. Bizzarrio, A. Sá-Nunes, S. Jancar. Sao Paulo, Brazil

W1.09.10 - Glucocorticoid-Induced Leucine Zipper expression in DCs controls Treg induction in vivo

Joseph Calmette, T. Tran, S. Karaki, M. Ellouze, M. Pallardy, F. Bachelerie, R. Krzysiek, D. Emilie, G. Schlecht-Louf, V. Godot. Clamart, France

W1.09.11 - The inhibitory NK receptor Ly49Q protects plasmacytoid dendritic cells from TLR9-triggering cell death by assuring lysosomal integrity

Noriko Toyama-Sorimachi, M. Tanaka, T. Kobayashi, A.P. Makrigiannis, K. Inaba. Tokyo, Japan

W1.09.12 - Membrane transfer from tumor cells generates plasmacytoid dendritic cells cross-dressed with exogenous antigens

Irene Bonaccorsi, B. Morandi, G. Costa, D. Oliveri, R. Conte, G. Pezzino, M. Mingari, G. Ferlazzo. Messina, Italy

W1.09.13 - Myeloid cells in the islets of Langerhans are key players in presentation of islet antigens and trophic function: identification of their phenotype and ontogeny

Boris Calderon, E.R. Unanue. St. Louis, USA

W1.09.14 - Dendritic cells partake in regulation of ovarian physiology

Adva Cohen-Fredarow, A. Tadmor, T. Raz, N. Meterani, M. Neemam, G. Mor, N. Dekel. Rehovot, Israel

W1.10 - Innate sensors

Chairs: Roman Jerala (SLO) - Cecilia Garlanda (ITA)

IL1.10.01 - The long pentraxin PTX3: a paradigm for humoral pattern recognition molecules

Cecilia Garlanda. Rozzano, Italy

IL1.10.02 - Association of TIR domains underlying immunosuppression in bacterial infection and activation of MyD88 mediated cell signaling associated with B-cell lymphoma

O. Fekonja, M. Avbelj. Roman Jerala. Ljubljana, Slovenia

W1.10.01 - Viral inhibition of DNA-PK-dependent DNA sensing


W1.10.02 - Hepatitis C virus degrades Riplet ubiquitin ligase to escape host innate immune response

Hiroyuki Oshiumi, M. Matsumoto, T. Seya. Sapporo, Japan

W1.10.03 - Lysosomal DNase2a is required for the autophagic clearance of self damaged nuclear DNA

Yuk Yuen Lan, D. Londoño, N. Hacohen. Charlestown, USA

W1.10.04 - Commensal microbiota monitoring by RLRs regulates contact hypersensitivity response

Emilie Plantamura, L. Moudambi, S. Djebali, C. Macari, S. Lippens, A. Dzutsev, G. Trinchieri, J. Marvel, M.C. Michallet. Lyon, France

W1.10.05 - Essential role for Bruton’s tyrosine kinase outside the B cell compartment in bacterial infection

Alex F. De Vos, J. Pater, R. De Beer, S. Terpstra, C. Van’t Veer, R. Hendriks, T. Van Der Poll. Amsterdam, Netherlands

W1.10.06 - Genetic variants in donor PTX3 impair antifungal immunity and predispose to invasive aspergillosis after stem cell transplantation

C. Cunha, F. Aversa, A. Mantovani, L. Romani, Agostinho Carvalho. Perugia, Italy

Workshop W1.11 - Toll-like and pattern recognition receptors

Chairs: John Kagan (USA) - Alexander Poltorak (USA).

IL1.11.01- Regulation of the innate immune responses in wild mice.


W1.11.01 - Emerging roles of an innate immune regulator TAPE in the endosomal Toll-like receptor

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(TLR) and cytosolic RIG-I-like receptor (RLR) pathways.


W1.11.02 - Smurf2 negatively regulates RIG-I-like receptor-mediated immune signalling


W1.11.03 - PIAS1 negatively modulates virus triggered type I IFN signalling by blocking the DNA binding activity of IRF3.

R. Li, Y. Pan, D. Shi, Y. Zhang, **Jun Zhang**. Beijing, China.

W1.11.04 - The evolutionary landscape of the NLR family is reflected in the species-specific response to infection.


W1.11.05 - CD14 as a key regulator of TLR-mediated responses of microglia.


W1.11.06 - Bruton’s tyrosine kinase plays an essential role in TLR-dependent human DC activation.


W1.11.07 - Lyososomal oligopeptide transporter SLC15A4 regulates Toll-like receptor 7/9-mediated autoantibody production.

**Tosihiko Kobayashi**, T. Okamura, N. Toyama-Sorimachi. Tokyo, Japan.

W1.11.08 - NLR5-mediated regulation of MHC class I immune responses.

**Koichi S. Kobayashi**, I. Downs, A. Biswas, T. Meissner, Y. Liu, K. Lee, A. Li. College Station, USA.

W1.11.09 - Co-ligation of TLR3 and Dectin-1 agonists potentiates Th1 polarization capability on monocyte derived Langerhans cells in vitro.


W1.11.10 - TLR-9 dependent dendritic cells activation by filamentous bacteriophage targeting DEC-205.


W1.11.11 - Bacterial 23S rRNA is recognized by the endosomal TLR13 unless it is modified to constitute erythromycin resistance.


W1.11.12 - TLR triggered MAPK signalling is responsible for the regulatory phenotype of macrophages in response to Schistosoma mansoni cercarial secretions.


W1.11.13 - Redox-based control of synergy and antagonism among TLRs modulates cytokine production by monocytes.


W1.11.14 - A TNFα-CCL20-CCR6 axis drives Nod1-induced B cell recruitment

**Jorg H. Fritz**. Montreal, Canada.

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**W1.12 - Lectins and glycoimmunology**

**Chairs**: Fu-Tong Liu (USA) - Chitra Mandal (IND)

**Il1.12.01 - Galectins in Inflammation and Immunity**

**Fu-Tong Liu**

Taipei, Taiwan

**Il1.12.02 - Molecular interplay between sialic acids and siglecs in subversion of host innate immune response by Pseudomonas aeruginosa**

**Chitra Mandal**, B. Khatua

Kolkata, India

**W1.12.01 - C-type lectin MCL is a receptor for mycobacterial cord factor TDM and is critical for Mincle induction**

**Yasunobu Miyake**, K. Toyonaga, D. Mori, S. Kakuta, Y. Hoshino, Y. Iwakura, S. Yamasaki
W1.12.02 - Targeting C-type lectin receptors on dendritic cells for neonatal adjuvant setting  
Sebastien Lemoine, B. Jaron, E. Deriaud, C. Leclerc, R. Lo-Man  
Paris, France

W1.12.03 - A novel role of beta-glucan in improving anti-tumor immunity by regulating monocytic myeloid-derived suppressor cells  
Jie Tian, K. Ma, H. Guo, J. Chen, H. Xu, S. Wang  
Zhenjiang, China

W1.12.04 - Soluble CD52 is a negative regulator in the innate immune system  
Maryam Rashidi, Y. Zhang, E. Bandala-Sanchez, J.M. Wentworth, J. Vince, L.C. Harrison  
Melbourne, Australia

W1.13 - Fc and Fc-like receptors  
Chairs: Jeanette H. Leusen (NLD) - Catherine Sautes Fridman (FRA)

IL1.13.01 - Inside-out and outside-in Fc receptors: impact on antibody therapy of cancer  
Jeanette H.W. Leusen  
Utrecht, Netherlands

IL1.13.02 - Fc gamma receptors: a 50 year anniversary  
Catherine Sautes Fridman  
Paris, France

W1.13.01 - Role of IgG, IgG receptors and neutrophils in anaphylactic reactions  
Friederike Jönsson, D.A. Mancardi, P. Bruhns  
Paris, France

W1.13.02 - Role of the phagocytic synapse in the recognition of bacteria and the subsequent induction of Th17-responses  
Marrit N. Habets, Z. Yang, H. elMoussaoui, M.I. de Jonge, D.A. Diavatopoulos  
Nijmegen, Netherlands

W1.13.03 - Anti-inflammatory activity of IVIg mediated through the activating FcγRIII (CD16) is induced by ITAMI signalling  
Sanae Ben Mkaddem, M. Aloulou, U. Blank, R.C. Monteiro  
Paris, France

W1.13.04 - Antibody opsonised pathogens profoundly alter secondary immune responses through cross-talk of TLRs and FcγRs  
Jantine Bakema, K. Tuk, S. van Vliet, S. bruijns, J. Vos, S. Letsiou, C. Dijkstra, Y. van Kooyk, A. Brenkman, M. van Egmond  
Amsterdam, Netherlands

W1.13.05 - Monocytes rather than NK-cells contribute to antibody mediated protection from MCMV infection  
Anna Bootz, T. Winkler, M. Mach  
Erlangen, Germany

W1.13.06 - Swiprosin-1/EFhd2 is involved in the initial reaction of the IgE Fc receptor signal  
Yohei Mitsuhashi, M. Hachiya, T. Aradate, Y. Yamanoi, M. Kanamori, A. Muraguchi, D. Mietenz, T. Katagiri  
Toyama, Japan

W1.14 - Cytokines and other regulatory mediators of inflammation  
Chairs: Francesca Fallarino (ITA) - Fernando Q. Cunha (BRA)

IL1.14.01 - Endotoxin tolerance as a novel defence strategy in infectious diseases  
Francesca Fallarino, M. Gargaro, A. Bessede, D. Matino, G. Servillo, L. Tissi, L. Romani, U. Grohmann, P. Puccetti  
Perugia, Italy
W1.14.01 - Expression and regulation of IL-35 in human tolerogenic dendritic cells and its role in regulating T cells responses
Karen O. Dixon, S. van der Kooij, N. Schlagwein, D. Vignali, C. van Kooten
Leiden, Netherlands

W1.14.02 - The BAFF/Th17 axis in Helicobacter pylori infection
Fabio Munari, M. Fassan, M. Cassatella, M. de Bernard
Padua, Italy

W1.14.03 - Molecular basis of signalling through the IL-36 receptor
Eric J. Sundberg
Baltimore, USA

W1.14.04 - Intracellular signalling involved in IL-22 release by dendritic cells
Maria Foti, S. Fumagalli, S. Citterio, C. Ripamonti
Milan, Italy

W1.14.05 - Environmental conditions perceived by the brain alter CD4+ T cell responses through an adiponectin-dependent mechanism
Sophia Antipolis, France

W1.14.06 - The non-specific and sex-differential immunological effects of the Bacillus Calmette-Guerin (BCG) vaccine in infants
Copenhagen, Denmark

W1.15 - Inflammasome

Chairs: Eicke Latz (DEU) - Olaf Groß (DEU)

IL1.15.01 - Role of inflammasomes for chronic inflammatory diseases
Eicke Latz
Bonn, Germany

IL1.15.02 - Inflammasome activators induce the secretion of IL-1α via two distinct pathways displaying differential requirement for a protease activity-independent function of caspase-1
Olaf Groß
München, Germany

W1.15.01 - Cytosolic cathepsin inhibitor Stefin B (Cystatin B) regulates NLRP3 inflammasome activation
Katarina Maher, B. Jeric, B. Turk, N. Kopitar Jeralja
Ljubljana, Slovenia

W1.15.02 - The inflammasome adaptor ASC forms a prion-like danger signal that perpetuates inflammation
Bernardo S. Franklin, D. De Nardo, G. Horvarth, S. Zimmer, S. Hornemann, A. Aguzzi, E. Latz
Bonn, Germany

W1.15.03 - The NLRP3 inflammasome links complement-mediated inflammation and IL-1β release
Fedérica Laudisi, R. Speziale, F. Ervad, B. Mandrioni, S. Baalasubramanian, A. Mortellaro
Singapore, Singapore

W1.15.04 - Fas-mediated inflammatory response in Listeria monocytogenes infection
Ryosuke Uchiyama, H. Tsutsui
Nishinomiya, Japan

W1.15.05 - TLRS-induced PAI-2 expression suppresses NLRP3-dependent caspase-1 activation and IL-1β processing
L. Hsu, Shih-Yi Chuang, C. Yang, C. Lee, C. Chou
Taipei, Taiwan
W1.15.06 - NLRP3 controls Trypanosoma cruzi infection through a caspase-1-dependent IL-1R-independent NO production
Sao Paulo, Brazil
IL.15.01 - Role of inflammasomes for chronic inflammatory diseases
Eicke Latz
Bonn, Germany
IL.15.02 - Inflammasome activators induce the secretion of IL-1β via two distinct pathways displaying differential requirement for a protease activity-independent function of caspase-1
Olaf Groß
München, Germany

W1.16 - Complement system
Chairs: Anna Erdei (HUN) - George N. Hajishengallis (USA)

IL1.16.01 - Microbial manipulation of select host signaling pathways to disengage immune bacterial clearance from inflammation
George Hajishengallis, T. Maekawa, J.L. Krauss, K.B. Hosur, J.D. Lambris
Philadelphia, United States
W1.16.01 - C3 opsonisation enhances apoptotic cell-associated antigen presentation by DCs by controlling the endocytic handling
Lucie Baudino, A. Sardini, M. Ruseva, L. Fossati-Jimack, D. Scott, T. Cook, M. Botto
London, United Kingdom
W1.16.02 - Follicular dendritic cells are essential for maintenance of autoreactive B cells
B.A. Heesters, P. Chatterjee, N. Dwivedi, A. Das, Michael C. Carroll
Boston, USA
W1.16.03 - Response gene to complement-32 mediates C5b-9 induced cell cycle activation and migration in endothelial cells
Cosmin A. Tegla, C.D. Cudrici, T. Ito, V. Nguyen, V. Rus, F.Niculescu, H. Rus
Baltimore, USA
W1.16.04 - Soluble GC1QR is an autocrine signal which induces bradykinin receptor 1 expression on activated endothelial cells
Stony Brook, USA
W1.16.05 - Role of the long Pentraxin PTX3 in fibrosarcoma development and progression
Milan, Italy
W1.16.06 - Dendritic cell alternative pathway production is differentially regulated by interferons and IL-27
Leiden, Netherlands

W1.17 - Allergic mediators
Chairs: Massimo Triggiani (ITA) - Annika Scheynius (SWE)
W1.17.01 - Novel regulatory control of IgE antibody responses in vivo
Danyal Butt, T. Chan, R. Brink
Sydney, Australia
W1.17.02 - Basophil-derived mouse mast cell protease 11 is involved in the development of IgE-mediated chronic allergic inflammation
Hayato Deki, Y. Kawano, S. Yoshikawa, M. Iki, M. Egawa, T. Ohta, H. Karasuyama
Tokyo, Japan
W1.17.03 - Analysis of NK cell subsets in children with atopic dermatitis
Gunnur Deniz, E. Aktas Cetin, N. Akdeniz, B. Safa, M. Kosker, Y. Camcioglu, & Barlan
Istanbul, Turkey
W1.17.04 - Novel IL-9-producing innate helper cells promote oral antigen-induced anaphylaxis
Yu-Hsi Wang, C. Chen, J. Lee, B. Liu, F. Finkelman, S. Hogan
Cincinnati, USA
W1.17.05 - Lack of PTX3 enhanced airway inflammation and hyperresponsiveness in a murine model of asthma
Jyoti Balhara, L. Shan, A. Soussi Gounni
Winnipeg, Canada
W1.17.06 - MicroRNA-155 augments local Th2 response in a mouse model of allergic airway inflammation
Carina Malmhäll, S. Alawieh, Y. Lu, M. Sjöstrand, A. Bossios, M. Eldh, M. Rådinger
Gothenburg, Sweden

W2.01 - Leukocyte signaling
Chairs: Emilio Hirsch (ITA) - Vaclav Horejsi (CEC)
W2.01.01 - The recruitment and activation of phosphatidylinositol 4-phosphate 5-kinases α critically regulate CD28-dependent signalling responses
Loretta Tuosto, M. Muscolini, C. Camperio, C. Capuano, S. Caristi, E. Piccolella, R. Galandrini
Rome, Italy
W2.01.02 - Terminal transport of lytic granules to the immune synapse is mediated by the kinesin-1/Slp3/Rab27a complex.
Gaël Menasche, M. Kurowska, N. Goudin, N. Nehme, M. Court, J. Garin, A. Fischer, G. de Saint Basile
Paris, France
W2.01.03 - The potassium channel KCNK3 determines calcium signalling pathways in T lymphocytes
Stefan Bittner, H. Wiendl, S.G. Meuth
Münster, Germany
W2.01.04 - Molecular tuning of telomerase activity in highly differentiated human primary CD28−CD27− T cells
Alessio Lanna, S.M. Henson, D. Escors, A.N. Akbar
London, United Kingdom
W2.01.05 - The expression and phosphorylation of HS1 protein are finely tuned in normal and leukemic B cells
Cristina Scielzo, E. ten Hacken, M.T.S. Bertilaccio, M. Ponzoni, U. Restuccia, A. Bachi, P. Ghia, F.
Calgaris-Cappio
Milan, Italy
W2.01.06 - The impact of arginine methylation on BCR signalling
Simona Infantino, A. Light, K. O'Donnell, S. Richard, D. Tarlinton
Melbourne, Australia

W2.02 - Nuclear receptors
Chairs: Cosima Baldari (ITA) - Antonio Moschetta (ITA)
IL2.02.01 - Modulation of TCR signaling and T cell activation by glucocorticoids: facts and hypotheses
Cosima T. Baldari
Siena, Italy
W2.02.01 - Antagonistic actions of Rcor proteins refine LSD1 activity and restrain cellular
differentiation
A.H. Chowdhury, G. Upadhyay, D. Kim, Shireen Saleque
New York, USA

W2.02.02 - Estradiol promotes functional responses in inflammatory and steady state dendritic cells through differential requirement of activation function-1 of estrogen receptor
Sophie Laffont, C. Seillet, N. Rouquié, A. Krust, P. Chambon, J. Arnal, J. Guéry
Toulouse, France

W2.02.03 - Identification of TREM-1 as a novel target of nuclear receptor ligands in dendritic cells
Milan, Italy

W2.02.04 - Retinoic acid-rich microenvironment provides clonal survival cues for tumor and bacteria-specific CD8+ T cells
Yanxia Guo, K. Pino-Lagos, R. Noelle
Lebanon, USA

W2.02.05 - Th17-mediated B cell activation contributes to splenomegaly in PPARγ hypomorphic mice
Ya-Hui Liu, Y. Tsai, P. Tsai
Tainan, Taiwan

W2.02.06 - Expression levels of mRNA for GRα, GRβ, 11βHSD1 and GRα/β ratio in peripheral blood mononuclear cells from patients with pulmonary tuberculosis, throughout the 6-month course of etiological treatment and 3 month following its completion
L.D. D’Attilio, A. Díaz, B. Bongiovanni, N.S. Santucci, G. Didoli, W. Gardeñez, A. Del Rey, H. Besedovsky, O.A. Bottasso, María L. Bay
Rosario, Argentina

W2.03 - Epigenetic control of immune responses
Chairs: Riitta Lahesmaa (FIN) - Massimiliano Pagani (ITA)

IL2.03.01 - Epigenomic and transcriptional regulation of human Th cell differentiation
Riitta Lahesmaa
Turku, Finland

W2.03.01 - Regulatory non-coding RNAs as modulators of human lymphocytes differentiation
V. Ranzani, A. Arrigoni, R.J. Bonnal, Grazisa Rossetti, S. Curti, E. Sugliano, E. Provasi, V. Parente, S. Abrignani, M. Pagani
Milan, Italy

W2.03.02 - Bromodomain inhibition enhances tolerogenic properties in dendritic cells
Ronald Schilderink, L.E. Nijhuis, F.W. Hilbers, R.K. Prinjha, W.J. de Jonge
Amsterdam, Netherlands

W2.03.03 - The Polycomb group protein Ezh2 regulates the germinal center B cell response
Stefano Casola, M. Caganova, C. Carrisi, F. Zanardi, F. Mainoldi, L. George, M. Ponzoni, K.M. Toellner, I. Su
Milan, Italy

W2.03.04 - Loss of an Ig gene enhancer in mature B cells results in rapid gene silencing and partial reversible de-differentiation
X. Zhou, Y. Xiang, William T. Garrard
Dallas, USA

W2.03.05 - Regulation of CD4 T helper cell differentiation and plasticity by the histone methyltransferase Ezh2
Chiba, Japan

W2.03.06 - Unique epigenetic signatures are associated with the induction, silencing and re-
expression of CD8 during T cell development and activation
Parkville, Australia

W2.04 - MicroRNAs in immune regulation
Chairs: Hans-Martin Jack (DEU) - Flavia Bazzoni (ITA)
W2.04.01 - TCD8+ suppressor cells produce antigen-specific exosomes carrying microRNA-150 to inhibit contact sensitivity response
K. Bryniarski, Katarzyna Nazimek, E. Sikora, M. Ptak, P.W. Askenase, W. Ptak
Krakow, Poland

W2.04.02 - The role of microRNA-142-5P in experimental colitis
Amsterdam, Netherlands

W2.04.03 - Investigating the impact of individual miRNAs on Treg conversion
Sebastian C. Warth, A. Hiekel, V. Heissmeyer
Munich, Germany

W2.04.04 - IL-10-induced microRNA-187 negatively regulates TNF, IL-6 and IL-12p40 production in TLR4-stimulated monocytes
Marzia Rossato, G. Curtale, N. Tamassia, M. Castellucci, L. Mori, S. Gasperini, B. Mariotti, M.A. Cassatella, M. Locati, F. Bazzoni
Verona, Italy

W2.04.05 - MicroRNA-146a promotes IVlg-mediated inhibition of NFκB activation in LPS-treated human monocytes
Lionel Loubaki, D. Chabot, I. Paré, R. Bazin
Québec, Canada

W2.04.06 - MicroRNA regulation of bacterial infection in the lung
Hock L. Tay, G.E. Kaiko, P.M. Hansbro, P.S. Foster
Newcastle, Australia

W2.05 - Immune responses in aging
Chairs: Daniela Frasca (USA) - Scheherazade Sadegh-Nasseri (USA)

IL2.05.01 - Genetic Regulation of Longevity in Memory CD4 T cells in Aged mice
Scheherazade Sadegh-Nasseri, S. Khoruzhenko, N. Song, S. Sonder
Baltimore, United States

W2.05.01 - Senescent associated cells in human CD8+ T-lymphocytes
Oscar O. Onyema, L.N. Forti, R. Njemini, I. Bautmans, J. Aerts, M. De Waele, T. Mets
Brussel, Belgium

W2.05.02 - C-reactive protein promotes acquisition of a senescent phenotype in human CD8+ T cells
Jennifer P. Chou, D. Ryba, M. Koduri, R.B. Effros
Los Angeles, USA

W2.05.03 - Assessing human TCR CDR3 repertoire by a RACE-PCR-sequencing method
Baltimore, USA

W2.05.04 - Memory B cell repertoire changes with age.
Deborah K. Dunn-Walters.
London, United Kingdom

W2.05.05 - Memory immune response to booster vaccination in old age depends on adequate priming earlier in life
Innsbruck, Austria

W2.05.06 - Human B cell response to the influenza vaccine is predicted by AID and decreased by inflammaging
Bonnie B. Blomberg, A. Diaz, M. Romero, A. Landin, D. Frasca
Miami, USA

W2.06 - Leukocyte trafficking
Chairs: Ruggero Pardi (ITA) – Giorgio Berton (ITA)
W2.06.01 - Clathrin light chain subunits control actin organization during infection and lymphocyte migration
Frances M. Brodsky, M. Bonazzi, P. Cossart, P. Parham, S. Majeed
San Francisco, USA

W2.06.02 - DOCK8 is a Cdc42 activator critical for interstitial dendritic cell migration during immune responses
Yousuke Harada, Y. Tanaka, M. Terasawa, J.V. Stein, T. Kinashi, Y. Fukui
Fukuoka, Japan

W2.06.03 - All-trans retinoic acid and rapamycin synergize with transforming growth factor-β to induce regulatory T cells but confer distinct in vivo migratory capacities
Baltimore, USA

W2.06.04 - The transporter Spns2 is required for secretion of lymph but not plasma sphingosine-1-phosphate
New York, USA

W2.06.05 - D6 is a β-arrestin-biased signalling chemokine scavenger receptor
Cinzia Cancellieri, E.M. Borroni, A. Vacchini, Y. Benureau, F. Bachelerie, F. Arenzana-Seisdedos, K. Mizuno, A. Mantovani, R. Bonecchi, M. Locati
Milan, Italy

W2.06.06 - A mechanism of the skin-infiltration of basophils that is essential for the acquired protective immunity to tick infestation
Soichiro Yoshikawa, T. Ohta, K. Ishiwata, K. Horiguchi, L. Li, K. Miyake, Y. Kawano, H. Kanuka, N. Watanabe, H. Karasuyama
Tokyo, Japan

W2.07 - Peripheral tolerance and lymphocyte anergy
Chairs: Bonnie Blomberg (USA) - Sachiko Miyake (JPN)
W2.07.01 - Induction of antigen-specific tolerance upon infusion of Fc-fusion proteins via the materno-fetal interface
Nimesh Gupta, Y. Meslier, S. André, S. Culina, S. Delignat, B.L. Salomon, R. Mallone, S. Kaveri, S. Lacroix-Desmazes
Paris, France

W2.07.02 - Ly9 (CD229) cell surface receptor ameliorates autoimmune response
Xavier Romero, J. de Salort, P. Engel
Barcelona, Spain

W2.07.03 - An agonistic anti-BTLA mAb (3C10) induced generation of IL-10 dependent regulatory CD4+ T cells and prolongation of murine cardiac allograft
Tokyo, Japan

W2.07.04 - Upregulation of inhibitory molecules in T cells is associated with altered functions of dendritic cells by HIV-1 and activation of the P38MAPK/STAT3 pathway
Esaki M. Shankar, K.F. Che, M. Larsson
Kuala Lumpur, Malaysia

W2.07.05 - IL-15 reverses age-related CD8+ T cell inactivation with increasing IFNγ production and improves survival in aged septic mice
Isehara, Japan

W2.07.06 - Upregulation of glucocorticoid-induced leucine zipper by hepatocyte growth factor promotes tolerogenic dendritic cells and inhibits experimental autoimmune encephalomyelitis
Mahdia Benkhoucha, N. Molnarfi, M. Santiago-Raber, G. Schneiter, P. Lalive
Geneva, Switzerland

W2.08 - Antigen receptor signaling
Chairs: Yvonne Rosenstein (MEX) – Alberto Amadori (ITA)

IL2.08.01 - Novel assignments for the CD43 molecule
Cuernavaca, Mor., Mexico

W2.08.01 - Antigen-specific TCR-pMHC catch bond enables force to trigger T cell signalling
Cheng Zhu, B. Liu, W. Chen, B. Evavold
Atlanta, USA

W2.08.02 - Regulation of the Ras-Erk cascade during T-cell activation.
Mateusz Poltorak, B. Schraven, L. Simeoni
Magdeburg, Germany

W2.08.03 - Kidins220/ARMS associates with B-Raf and the TCR promoting sustained Erk signalling in T cells
Freiburg, Germany

W2.08.04 - Dual-specificity phosphatase 14 negatively regulates TAK1 signalling and immune responses
Chia-Yu Yang, T. Tan
Miaoli County, Taiwan

W2.08.05 - Lysophosphatidic acid receptor 5 inhibits B cell antigen receptor signalling and antibody response
Denver, USA

W2.08.06 - Negative regulation of chemokine receptor signalling and B cell chemotaxis by p66Shc
Nagaja Capitani, L. Patrussi, E. Cannizzaro, F. Finetti, O. Lucherini, P. Pelicci, C.T. Baldari
Siena, Italy

W2.09 - MHC and other polymorphic genes in health and disease
Chairs: Jeffrey A. Frelinger (USA) - Dolores Jaraquemada (ESP)

IL2.09.01 - MHC and other polymorphic genes in health and disease
Jeffrey A. Frelinger, D. Jaraquemada
Tucson, United States

W2.09.01 - Tapasin facilitation of MHC-I separates closely related allomorphs, is strongly influenced by peptide length and depends on stability
L. Geirsonon, C. Thuring, M. Harndahl, M. Rasmussen, S. Buus, G.A. Røder, Kajsa M. Paulsson
Lund, Sweden
W2.09.02 - NLRC5 controls basal MHC class I gene expression in an MHC-enhanceosome dependent manner
A. Neerincx, G. Rodriguez, V. Steimle, Thomas Kufer
KölN, Germany

W2.09.03 - TAPBPR uses the same residues as tapasin to associate with MHC-I
Clemens Hermann, L.M. Strittmatter, L.H. Boyle
Cambridge, United Kingdom

W2.09.04 - Usage of a genome-wide shRNA-based lentiviral screen and targeted siRNA knockdown to identify host cell proteins involved in US2- and US11-mediated degradation of MHC-I molecules
Daniel C. Chapman, P. Stocki, F. Teusel, D.B. Williams
Toronto, Canada

W2.09.05 - Comparative analysis of DQA1*05/DQB1*02 mRNAs and DQ2 heterodimer expression in relation to antigen presentation
L. Pisapia, A. Camara, P. Barba, S. Picasia, G. Del Pozzo, Carmen Gianfrani
Avellino, Italy

W2.09.06 - Novel HLA-B27-restricted epitopes from Chlamydia trachomatis suggest a role of molecular mimicry in reactive arthritis
Carlos Alvarez-Navarro, J. Cragnolini, H. G. Dos Santos, E. Barnea, A. Admon, A. Morreale, J. López de Castro
Madrid, Spain

W2.10 - Autophagy and cell death in the immune system
Chairs: Christian Münz (CHE) - David Wallach (ISR)

IL2.10.01- Understanding symptomatic infections in order to avoid initiation of autoimmunity
Christian Münz
Zurich, Switzerland

IL2.10.02 - Regulation of inflammation and cell-death trough interactions of RHIM-domain protein kinases with caspase-8
David Wallach, T. Kang, S. Yang, B. Toth, A. Rajput, J. Kim, A. Kovalenko
Rehovot, Israel

W2.10.01 - Human and mouse mononuclear phagocytes are the only leukocyte subset expressing functional death receptors for Trail
Cristina Belgiovine, M. Liguori, G. Germano, C. Buracchi, A. Mantovani, P. Allavena
Milan, Italy

W2.10.02 - Target cell death is necessary for cytotoxic T cell detachment and serial killing
Misty R. Jenkins, J.A. Lopez, J.A. Rudd-Schmidt, I. Voskoboinik, J.A. Trapani
Melbourne, Australia

W2.10.03 - The switch in T cell survival: Cross-regulation between homeostasis and antigen-induced activation
Susanne Heinzel, P. Koenen, J. Zhang, A. Strasser, P. Hodgkin
Parkville, Australia

W2.10.04 - IFN-γ induces an autophagy-mediated antimicrobial response against Mycobacterium leprae in human monocytes
Rio de Janeiro, Brazil

W2.10.05 - p53 contributes to T cell homeostasis through the induction of pro-apoptotic SAP
Harsha S. Madapura, D. Salamon, K.G. Wiman, S. Lain, G. Klein, E. Klein, N. Nagy
Stockholm, Sweden

W2.10.06 - Autophagy facilitates TLR4,3-triggered migration and invasion of lung cancer cells by
promoting chemokine and IL-6 production through maintaining TRAF6 ubiquitination

Zhenzhen Zhan, X. Zhang, H. Fan, Z. Liu
Shanghai, China

W2.12 - Signaling in immune cells

Chairs: Chris E. Rudd (GBR) - Tse-Hua Tan (TWN)

IL2.12.01 - T-cell signaling via adaptor regulation of the nuclear pore complex (NPC)
Christopher E. Rudd
Cambridge, United Kingdom

W2.12.01 - GRAIL targets CDC37 to maintain CD4 T cell unresponsiveness
Chan C. Whiting, D. Gomez-Martin, J.M. Schartner, L. Su, C. Fathman
Palo alto, USA

W2.12.02 - TRAF6 regulates TCR signalling via interaction with and modification of LAT adapter.
J. Xie, J. Liang, L. Diao, A. Altman, Yingqiu Li
Guangzhou, China

W2.12.03 - TNF reverse signalling induces translocation of CKIP-1
Erno Duda, K. Juhasz, A. Zvara, Z. Balogi, A. Sonnleitner, A. Borsodi
Szeged, Hungary

W2.12.04 - PI 3-kinase sub-pathways in lymphocyte activation: regulation and functions of phosphatidylinositol (3,4)-bisphosphate
Aaron Marshall, N. Jayachandran, H. Li, I. Landego, S. Pauls, S. Hou
Winnipeg, Canada

W2.12.05 - IL-7 signalling is motorized in human CD4 T cells
Blanche Tamarit, F. Bugault, A. Pillet, V. Lavergne, P. Bochet, J. Thèze, T. Rose
Paris, France

W2.12.06 - Molecular profiling of LFA-1 signalling in T cells identifies novel genomic signatures implicated in Th1, Th17 and iTreg polarization
Dublin, Ireland

W3.01 - Lymphoid organogenesis and lineage commitment

Chairs: Sergei Nedospasov (RUS) - Matthew F. Krummel (USA)

IL3.01.01 - TNF and both soluble and membrane-bound lymphotoxins have distinct functions in GALT organogenesis and in intestinal immunity
A.A. Kruglov, Sergei A. Nedospasov
Berlin, Germany

W3.01.01 - The layered immune system: adult hematopoietic stem cells cannot fully reconstitute all of the functionally distinct immune cell subsets
Eliver E.B. Ghosn, R. Yamamoto, S. Hamanaka, Y. Yang, L. Herzenberg, H. Nakauchi, L. Herzenberg
Stanford, USA

W3.01.02 - Deletion of the atypical chemokine receptor CCX-CKR alters thymic stroma, impairs thymocyte development and promotes autoimmunity
Adelaide, Australia

W3.01.03 - Identification of thymic epithelial stem cells ensuring lifelong central T cell tolerance
Miho Sekai, Y. Hamazaki, N. Minato
Kyoto, Japan

W3.01.04 - Dissecting the cellular and molecular requirement for Lymphotoxin in orchestrating B cell
accumulation in ectopic follicle like structures in a rodent model of multiple sclerosis
*Natalia Pikor, G. Galicia, D. Ng, J. Gommerman*
Toronto, Canada

W3.01.05 - Pbx1 restrains myeloid maturation while preserving lymphoid potential in hematopoietic progenitors
*Francesca Ficara, L. Crisafulli, C. Lin, M. Iwasaki, L. Zammataro, M.L. Cleary*
Milan, Italy

W3.01.06 - Survivin inhibition disturbs Bcl-6 and Blimp-1 control of lymphocyte differentiation
*Maria Bokarewa, S. Andersson, M.N. Svensson, M. Erlandsson, I. Jonsson, K.M. Andersson*
Göteborg, Sweden

W3.02 - Role of the stroma in innate and adaptive immunity
*Chairs:* Michael C. Carroll (USA) - David Naor (ISR)

IL3.02.01 - Role of Lymph node structure in adaptive immunity to influenza virus
*M.C. Woodruff, C.H. Herndon, S.S. Turley, Michael C. Carroll*
Boston, United States

IL3.02.02 - Stroma-derived Hyaluronan induces CD44-dependent apoptosis in diabetic insulin-secreting cells
*David Naor, N. Assayag-Asherie, E.A. Turley, I. Raz*
Jerusalem, Israel

W3.02.01 - Endocytosis and recycling of immune complexes by follicular dendritic cells enhances B cell binding and activation
*Balthasar A. Heesters, P. Chatterjee, Y. Kim, S.F. Gonzalez, M.P. Kuligowski, T. Kirchhausen, M.C. Carroll*
Boston, USA

W3.02.02 - Dynamics of plasma cell survival niches in the bone marrow
*S. Zehentmeier, K. Roth, Ö. Sercan, H. Chang, Z. Cseresnyes, R. Niesner, A. Radbruch, Anja E. Hauser*
Berlin, Germany

W3.02.03 - Galectin-1-expressing stromal cells constitute a specific niche for pre-BII cell development in mouse bone marrow
*Julie Tellier, F. Mourcin, C. Breton, P. Narang, L. Chasson, A. Jorquera, M. Coles, S. Mancini, C. Schiff*
Parkville, Australia

W3.02.04 - Local complement activation abrogates the tumor-endothelial barrier and mediates T cell homing and tumor immune attack
*Andrea Facciabene, F. De sanctis, K. Balint, P. Magotti, J. Lambris, G. Coukos*
Philadelphia, USA

W3.02.05 - Alterations in stromal cell compartment during thymus atrophy induced by *P. brasiliensis* infection
*Thiago Alves da Costa, R. Di Gangi, C. Francelin, R. Thomé, L. Verinaud*
Campinas, Brazil

W3.02.06 - A quasi clone specific mechanism for the regulation of the size of the primary CD8 T cell response
*Richard W. Dutton, T. Zou*
Worcester, USA

W3.03 - Thymic selection and T cell development
*Chairs:* Pawel Kisielow (POL) - Pärt Peterson (FIN)

IL3.03.01 - Role of the affinity of TCR-self peptide interaction in commitment to CD4+Foxp3+ and CD4+Foxp3- T cells and in shaping their TCR repertoires
*L. Wojciech, L. Ignatowicz, Pawel Kisielow*
Wroclaw, Poland

IL3.03.02 - Anti-cytokine autoantibodies in APECED correlate with chronic mucocutaneous
W3.03.01 - Novel role for heparan sulfate in thymic development of CD8<sup>+</sup> T cells
David Anak Simon Davis, C.R. Parish
Canberra, Australia

W3.03.02 - B cells engender thymic Tregs
Stacey N. Walters, K.E. Webster, S. Daley, S.T. Grey
Sydney, Australia

W3.03.03 - Involvement of commensal bacteria in thymic Aire expression
Tokyo, Japan

W3.03.04 - A key role for PTPN22 in setting the threshold for natural and inducible regulatory T cell development
Georgia Fousteri, I. Deberardinis, T. Jofra, S. Stanford, N. Bottini, M. Battaglia
Milan, Italy

W3.03.05 - Aire-mediated central tolerance includes naïve but not post-translational modified selfantigens
Bruno Raposo, P. Merky, R. Holmdahl, J. Bäcklund
Stockholm, Sweden

W3.03.06 - Functional study of WW domain-containing oxidoreductase in T cells
Tsung-Hao Chang, L. Hs
Tainan, Taiwan

W3.04 - Genetic rearrangements of lymphocyte receptors

IL3.04.01 - Combinatorial H3K9acS10ph histone modifications in IgH locus S regions target 14-3-3 adaptors and AID to specify antibody class switch DNA recombination
Paolo Casali, G. Li
Irvine, United States

W3.04.01 - A novel DNA break and phosphorylation-dependent positive feedback loop promotes class switch recombination
Jayanta Chaudhuri
New York, USA

W3.04.02 - AID-dependent IgV hypermutation requires a splice isoform of the SR protein SRSF1
Okayama, Japan

W3.04.03 - Effect of the 3'Regulatory Region insulation on B cell development and DNA rearrangements at the immunoglobulin heavy chain locus
F. Braikia, Caroline Conte, M. Moutahir, A. Khamlichi
Toulouse, France

W3.04.04 - Genetic variation and positional biases influence rearrangement of lymphocyte receptor genes
Marie J. Kidd, A.M. Collins
Kensington, Australia

W3.04.05 - Secondary immunoglobulin heavy chain rearrangements in IgA cloned mice
Rashmi Kumar, O. Kanagawa, S. Fagarasan, S. Casola
Milan, Italy

W3.04.06 - The conservation of immunoglobulin genes: an evolutionary link between autoreactivity
and innate response against pathogens

Rio de Janeiro, Brazil

W3.05 - Antigen processing and presentation
Chairs: Kayo Inaba (JPN) - Peter van Endert (FRA)

IL3.05.01 - Compartment cross-talk controlling phagosome maturation and exogenous antigen presentation in dendritic cells
Peter van Endert, M. Weimershaus, J. Babdor, D. Descamps, A. Lennon-Dumenil, M. Zwick, T. Brocker, L. Saveanu
Paris, France

W3.05.01 - The true story of how MHC peptides are produced
Arie Admon, L. Gutter-Kapon, E. Milner, D. Bourdetsky, E. Barnea, I. Beer
Haifa, Israel

W3.05.02 - ER-resident editors optimize distinct features of the peptide cargo loaded onto MHC-I molecules
Berkeley, USA

W3.05.03 - A CD74-dependent MHC-I endolysosomal cross-presentation pathway
Vancouver, Canada

W3.05.04 - IRAP endosomes are an intracellular crossroad of innate and adaptive immunity
Loredana Saveanu, M. Weimershaus, J. Babdor, M. Tohme, P. Vargas, A. Lennon-Dumenil, D. Descamps, B. Manoury, P. van Endert
Paris, France

W3.05.05 - CD4 T cell receptor transgenic mice recognizing an unstable peptide of insulin are directly recruited into islets bypassing local lymph nodes
J. F. Mohan, Boris Calderon, E.R. Unanue
Saint Louis, USA

W3.05.06 - Structural basis of human beta-cell killing by CD8+ T cells in type 1 diabetes
David K. Cole
Cardiff, United Kingdom

W3.06 - Costimulation
Chairs: Loretta Tuosto (ITA) - Matthias Von Herrath (USA)

IL3.06.01 - Autonomous CD28 signalling pathways in the regulation of T lymphocyte survival and pro-inflammatory functions
Loretta Tuosto
Rome, Italy

IL3.06.02 - Viruses and type 1 diabetes - the good and the bad
Matthias G. Von Herrath
La Jolla and Seattle, United States

W3.06.01 - Mechanical insights into the functional impacts of interactions between antigen-presenting cells and T cells
T. Seng Lim, A. Mortellaro, C. Lim, G. J. Hämmerling, Paola Ricciardi-Castagnoli
Singapore, Singapore

W3.06.02 - Basilic, a lymphoid-specific protein essential for CD28 costimulation and regulatory T cell development
Marie Malissen, L. Yinnie, M. Cucchetti, R. Roncagalli, T. Yokosuka, T. Saito, C. Wuelfing, B. Malissen
Marseille, France

W3.06.03 - Human memory T cell subsets require distinct costimulatory signals to efficiently expand ex vivo
Valentina Volpin, N. Cieri, C. Bonini
Milan, Italy

W3.06.04 - Differential usage of costimulatory/coinhibitory pathways by antigen-specific CD8+ T cells in patients with chronic hepatitis C
Solomon Owusu Sekyere, P. Suneetha, V. Schlaphoff, M. Manns, M. Comberg, H. Wedemeyer
Hannover, Germany

W3.06.05 - PD-1 controls effectors but not the generation or function of natural or induced regulatory T cells
Kristofer K. Ellestad, G. Thangavelu, C.L. Ewen, C.C. Anderson
Edmonton, Canada

W3.07 - B cell development and plasma cell differentiation
Chairs: Majorie A. Oettinger (USA) - Hedda Wardemann (DEU)

W3.07.01 - The Ras/Erk/PI3K pathways during positive selection of primary B cells
Chiara Babolin, L. Sink-Teodorovic, R. Torres, R. Pelanda
Denver, USA

W3.07.02 - Characterization of umbilical cord blood CD34+CD43+CD19+CD38lo/int cells suggests a common progenitor for human B1 and B2 cells
Tam D. Quach, N.E. Holodick, R. Vuyyuru, T. Manser, T.L. Rothstein
Manhasset, USA

W3.07.03 - A human marginal zone B cell precursor
Marc Descatoire, S. Weller, S. Irtan, J.C. Weill, C.A. Reynaud
Paris, France

W3.07.04 - The ELL-associated factor 2 negatively regulates germinal center B cell survival and humoral immune responses
Yingqian Li, Y. Takahashi, S. Fujii, J. Wang
Yokohama, Japan

W3.07.05 - Epstein-Barr virus-encoded latent membrane protein 2A impairs B cell selection in germinal centers but not germinal center formation
Takeharu Minamitani, S. Sakakibara, T. Yasui, H. Kikutani
Suita, Japan

W3.07.06 - IgE-expressing B cells are restrained by an intrinsic cell fate predisposition
Zhiyong Yang, C.D.C. Allen
San Francisco, USA

W3.08 - Th1 and Th2 cells
Chairs: Enrico Maggi (ITA) - Barbara Bohle (AUT)

W3.08.01 - Crucial role of IL-18R1 signalling in Th1 cell differentiation in mice infected with Trypanosoma cruzi
Rio de Janeiro, Brazil

W3.08.02 - Pro- and anti-inflammatory cytokine signals control the balance between Th1 and Th2 differentiation during the first few days of viral infection

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New Haven, USA

W3.08.03 - CD4+ T cells are both trigger and target of the glucocorticoid response that prevents lethal immunopathology in toxoplasma infection
D.G. Kugler, P.R. Mittlestadt, J.D. Ashwell, A. Sher, Dragana Jankovic
Bethesda, USA

W3.08.04 - Blimp-1 triggers the formation of immunoregulatory IL-10 producing Th1 cells during chronic viral infection
Canberra, Australia

W3.08.05 - RNA-binding protein HuR coordinately regulates GATA-3 and CD4+ Th2 cytokine gene expression in dose-dependent manner
Ulus Atasoy, M. Gubin, R. Calaluce, J. Martindale, M. Gorospe, C. Stellato, V. Casolaro
Columbia, USA

W3.08.06 - Modifications of the bone marrow microenvironment in the transition from monoclonal gammopathy of undetermined significance to multiple myeloma in Vk*MYC mice
Arianna Calcinotto, E. Cattaneo, M. Grioni, S. Bertilacci, M. Chesi, L. Bergsagel, G. Casorati, P. Dellabona, M. Bellone
Milan, Italy

W3.10 - Th17 cells

Chairs: Megan - Levings (CAN) - Pierre Miossec (FRA)

IL3.10.01 - Contribution of IL-17 to the chronicity of inflammatory diseases
Pierre Miossec
Lyon, France

W3.10.01 - Phosphorylation status determines the divergent roles of Smad2 and Smad3 as STAT3 cofactors in Th17 differentiation
Tokyo, Japan

W3.10.02 - Transcriptional regulation of human Th17 cell differentiation
Subhash K. Tripathi, Z. Chen, T. Ajō, A. Larjo, V. Salo, S. Tuomela, H. Lähdesmäki, R. Lahesmaa
Turku, Finland

W3.10.03 - Protein C receptor regulates pathogenic phenotype of Th17 cells
Yasuhiro Kishi, C. Wang, C. Wu, N. Yosef, A. Regev, N. Joller, V. Kuchroo
Boston, USA

W3.10.04 - IL-17A secretion by CD8+ T cells supports Th17-mediated autoimmune encephalomyelitis
Marburg, Germany

W3.10.05 - Development and stability of human Th17 cells require endogenous NOS2 and cGMPc/GK-dependent NO signalling
Pittsburgh, USA

W3.10.06 - Evidence of a transient nature of the Th17 phenotype of CD4+CD161+ T cells in the synovial fluid of juvenile idiopathic arthritis patients
Laura Maggi, L. Cosmi, V. Santarlassi, M. Capone, V. Querci, M. Rossi, F. Liotta, E. Maggi, F. Annunziato, S. Romagnani
Williams, Italy

**W3.11 - Gamma-delta T cells**

**Chairs:** Dieter Kabelitz (DEU) - Adrian Hayday (GBR)

**IL3.11.01 - Regulatory interactions between granulocytes and γδ T cells in response to aminobisphosphonates**

*Dieter Kabelitz, V. Chandrasekaran, T.K. Lindhorst, S. Kalyan*

Kiel, Germany

**W3.11.01 - Heterogeneity and prognostic influence of tumor-infiltrating γδ T lymphocytes in colon cancer patients**

*Elena Lo Presti, S. Meraviglia, G. Cicero, V. Orlando, S. Buccheri, M.P. La Manna, D. Di Liberto, S. Cutrera, N. Caccamo, F. Dieli*

Palermo, Italy

**W3.11.02 - Key role of free heavy chain of HLA-I molecules in HCMV and tumor stress sensing by γδ TCR**


Bordeaux, France

**W3.11.03 - Implication of γδ T cells in the immune response against murine CMV**

*Camille Khairallah, S. Netzer, M. Juzan, A. Villacreces, V. Praloran, J. Moreau, J. Dechanet-Merville, M. Capone*

Bordeaux, France

**W3.11.04 - HDAC7 plays a significant role in γδ T cell development and function**

*Matthew G. MacKenzie, C. Gawden-Bone, S. Matthews*

Dundee, United Kingdom

**W3.11.05 - A network of High Mobility Group box transcription factors programs innate IL-17 production**

*Nidhi Malhotra, K. Narayan, O. Cho, K. Sylvia, H. Melichar, M. Rashighi, V. Lefebvre, J.E. Harris, L.J. Berg, J. Kang*

Worcester, USA

**W3.11.06 - Major contribution of γδ T cells to IL-17A production and ovarian cancer growth in vivo**

*Margarida Rei, T. Lana, R. Thompson, F. Balkwill, H. Kulbe, B. Silva-Santos, D. Pennington*

Lisbon, Portugal

**W3.12 - Follicular helper T cells**

**Chairs:** Cecile King (AUS) - Teresa Marafioti (GBR)

**IL3.12.01 - Interleukin-21 directs T follicular helper cell differentiation**

*A. Vogelzang, H. McGuire, S. Liu, Cecile King*

Darlinghurst, Australia

**W3.12.01 - Functional overlap of ROQUIN-1 and ROQUIN-2 in the repression of mRNAs controlling Thf cell accumulation and systemic inflammation**


Canberra, Australia

**W3.12.02 - Identification of human Tfh-specific microRNAs and investigation of their role in Tfh differentiation and function**

*A. Ripamonti, Elena Provasi, G. Rossetti, S. Curti, V. Ranzani, V. Parente, F. Facciotti, M. Moro, S. Abruignani, M. Pagani*

Milan, Italy
W3.12.03 - Follicular regulatory T cells migrate to germinal centers via NFAT2-mediated signalling
Wuerzburg, Germany

W3.12.04 - The inhibitory receptor PD-1 regulates IgA selection and bacterial composition in the gut
Shimpei Kawamoto, T.H. Tran, M. Maruya, K. Suzuki, Y. Doi, Y. Tsutsui, L.M. Kato, S. Fagarasan
Yokohama, Japan

W3.12.05 - Regulation of T helper cell-dependent antibody response in lymphopenic hosts
Silvia Preite, D. Baumjohann, F. Ronchi, F. Sallusto, A. Lanzavecchia
Bellinzona, Switzerland

W3.12.06 - Fate decision of germinal centre B cells is based on asymmetric division
Michael Meyer-Hermann, Y. Zhang, G.D. Victora, K. Toellner
Braunschweig, Germany

W3.13 - Regulatory T cells: basic aspects
Chairs: Hans-Jorg Schild (DEU) - Barbara Fazekas (AUT)

IL3.13.01 - Regulatory T cells fine-tune DC costimulation in vivo to set the threshold for T cell activation
B. Fazekas de St Groth, H. Bolton, C. Zhu
Sydney, Australia

IL3.13.02 - Impaired peripheral tolerance as a consequence of disturbed regulatory T cells - dendritic cell interactions
Hansjörg Schild, S. Muth, H. Probst
Mainz, Germany

W3.13.01 - Low/ negative expression of CD6 in natural T-regulatory cells
Carlos A. Garcia Santana, J.W. Tung, S. Gulnik;
Miami, United States

W3.13.02 - Regulatory T cells increase the avidity of CD8+ T cell responses to non-self antigens and promote memory
Luigia Pace, A. Tempez, C. Arnold-Schrauf, F. Lemaitre, P. Bousso, L. Fetler, T. Sparwasser, S. Amigorena
Paris, France

W3.13.03 - Costimulatory requirements for Treg homeostasis and function
C. Wang, R. Kenevez, L. Wardzinski, Lucy S. Walker
London, United Kingdom

W3.13.04 - Continuous interactions with self are required for maintaining regulatory CD4 T cell numbers and suppressive capacities in the periphery
Arnaud Delpoux, P. Yakonowsky, A. Pommier, C. Charvet, M. Valente, A. Durand, B. Martin, C. Auffray, B. Lucas
Paris, France

W3.13.05 - TGF-∂ signalling is required for CD4+ T cell homeostasis but dispensable for regulatory T cell function
Anna Sledzinska, S. Hemmers, F. Mair, O. Gorka, J. Ruland, L. Fairbairn, W. Müller, A. Waisman, B. Becher, T. Buch
Zurich, Switzerland

W3.13.06 - Essential role for Bcl11b in the FoxP3 transcriptional complex and T regulatory cells suppressive function
Masahide Hamaguchi, K. Sakai, N. Ohkura, H. Morikawa, Y. Shimazu, J.B. Wing, S. Sakaguchi
Suita, Japan

W3.13.07 - Human regulatory T cells rapidly suppress T cell receptor-induced calcium, NF-κB, and NFAT signalling in conventional T cells
Angelika Schmidt, N. Oberle, R. Joshi, S. Frischbutter, R. Baumgrass, H. Lin, G.W. Mayr, E. Suri-Payer, J. Tegner, P.H. Krammer
Solna, Sweden

**W3.13.08 - Selective inhibition of pro-inflammatory T cell responses by TIGIT\(^+\) Tregs**

Boston, USA

**W3.13.09 - Regulatory T cells suppress the late phase of the immune response in lymph nodes through P-selectin glycoprotein ligand-1**

Verona, Italy

**W3.13.10 - Visualizing tolerance induction: behavior and function of regulatory T cells during the establishment of materno/fetal tolerance**

**Maria Grazia G. Ruocco**, T. Chen, G. Darrasse-Jeze, D. Klatzmann
Paris, France

**W3.13.11 - Migratory, and not lymphoid-resident, dendritic cells maintain peripheral self-tolerance and prevent autoimmunity via induction of iTreg cells**

**Achille Broggi**, C. Vitali, F. Mingozzi, S. Barresi, G. Raimondi, I. Zanoni, F. Granucci
Milan, Italy

**W3.13.12 - Der P 1 induced CD4\(^+\)FOXP3\(^+\)GATA3\(^+\) T cells have suppressive properties while contributing to the polarization of the Th2 response**

Utrecht, Netherlands

**W3.13.13 - Highly pure human antigen-specific Tregs with superior function in preventing allograft rejection**

Hannover, Germany

**W3.13.14 - TCR-independent CD4\(^+\)CD25\(^+\) regulatory T cell activation during immune responses**

**Hidefumi Kojima**, Y. Kashiwakura, M. Hashiguchi, T. Kobata
Mibu, Japan

**W3.14 - B cells in autoimmunity and regulatory B cells**

**Chairs:** Claudia Mauri (GBR) - Fabienne Mackay (AUS)

**IL3.14.01 - TACI regulates T-independent marginal zone B cell responses through innate activation-induced cell death**

**Fabienne Mackay**, W. Figgett, A. Strasser, P. Hertzog, K. Fairfax, V. Fabien, D. Saulep-Easton, M. Le Page, L. O'Reilly, S. Gerondakis
Melbourne, Australia

**IL3.14.02 - Regulatory B and iNKT cells interaction: novel mechanism of suppression**

**Claudia Mauri**, A. Bosma, A. Abdel-Gadir, E. Jury
London, United Kingdom

**W3.14.01 - Dual-reactive and autoreactive B cell selection and function in autoimmunity**

Denver, USA.

**W3.14.02 - The atypical IkB protein IkBNS is important for TLR-induced IL-10 production in B cells**

**M. Miura, M. Noguchi, Maki Touma**
Niigata, Japan

**W3.14.03 - Aicda expression in immature B cells, but not in mature B cells is critical for IgG autoantibody production in a model of systemic lupus erythematosus**
Benjamin Umiker, A. Larbi, M. Reth, T. Honjo, T. Imanishi-Kari  
Boston, USA  
W3.14.04 - Analysis of a wild mouse promoter variant reveals a novel role for FcyRllb in the control of the germinal center and autoimmunity  
Marion Espeli, M. Clatworthy, S. Boekers, K. Lawlor, A. Cutler, F. Koentgen, P. Lyons, K. Smith  
Cambridge, United Kingdom  
W3.14.05 - Contribution of IL-10 competent regulatory B cells (CD19^+CD24^hiCD38^hi) to cytotoxic T lymphocyte dysfunction after reactivation of HIV latent reservoirs.  
Basile Siewe, S. Rygielski, S. Deeks, J. Martin, A. Landay  
Chicago, USA  
W3.14.06 - Human innate-like B cells with regulatory properties in response to viruses  
X. Zhang, Dania Zhivaki, S. Lemoine, A. Lim, C. Leclerc, R. Lo-Man  
Paris, France

W3.15 - B and T cell memory  
Chairs: Rene Van Lier (NLD)

IL3.15.01 - Regulation of human CD8+ T cell effector functions  
Amsterdam, Netherlands  
W3.15.01 - Disparate individual fates compose robust CD8^+ T cell immunity  
Munich, Germany  
W3.15.02 - Late IL-2 signals limit effector CD4 T cell contraction and serve as a checkpoint for transition to memory  
Kai K. McKinstry, T.M. Strutt, A.M. Cooper, S.L. Swain  
Worcester, USA  
W3.15.03 - Id2-mediated inhibition of E2A represses memory CD8 T cell differentiation  
Frederick Masson, M. Minnich, M. Olshansky, A. Kallies, T.P. Speed, M. Busslinger, S.L. Nutt, G.T. Belz  
Parkville, Australia  
W3.15.04 - The transcription factor Zeb2 plays a role in promoting terminal differentiation of CD8^+ T cells through repression of the miR-200 family  
Claudia X. Dominguez, S.M. Kaech  
New Haven, USA  
W3.15.05 - IL-12-mediated STAT4 signaling and T-cell receptor (TCR) signal strength cooperate in induction of CD40L in human and mouse CD8^+ T cells  
Lausanne, Switzerland  
W3.15.06 - Survival of CD8 memory T cell precursors depends on NKG2D mediated PI3K signalling and Mcl-1 induction  
Rijeka, Croatia

W4.01 - Immunity to virus infection  
Chairs: Ahmed El-Gohary (EGY) - Margarida Souto-Carneiro (PRT)

IL4.01.01 - Genomic polymorphisms in 3β-hydroxysterol Δ24-reductase promoter sequences  
Gohary, K.T. Kohara
Ismailia, Egypt
W4.01.01 - Suppressor of cytokine signalling (SOCS) 4 is a critical regulator of the anti-viral immune response
Parkville, Australia
W4.01.02 - Timing and quality of the type-I interferon response to viral infection is tuned by stochastic cellular decisions at multiple levels
Manchester, United Kingdom
W4.01.03 - Serological diagnosis of Pepino mosaic virus with new generated monoclonal antibodies.
Amal Souiri, M.M. Ennaji, H. Laatiris, S. Amzazi, M. Zemzami
Casablanca, Morocco
W4.01.04 - An identical microRNA of the human JC and BK polyoma viruses targets the stress-induced ligand ULBP3 to escape immune elimination
Yoav Bauman, O. Mandelboim
Jerusalem, Israel
W4.01.05 - CD4+ T cells modulate Epstein-Barr virus latency types
Stockholm, Sweden
W4.01.06 - HSV-2 regulates inflammatory response in the vaginal epithelium via the Fas/FasL pathway
Malgorzata Krzyzowska, P. Orłowski, W. Stankiewicz
Warsaw, Poland
W4.01.07 - Evolution of neutralizing antibodies against HIV-1C gp160 molecular envelope clones from acute heterosexually acquired HIV-1C infections in Botswana
Takafira Mduluza, K. Bedi, S. Dzoro, W. Mpoloka, R. Musonda
Harare, Zimbabwe
W4.01.08 - Dual deletion of type I and type II interferon-binding proteins in NYVAC-HIV-1 Env-Gag-Pol-Nef poxvirus vaccine vectors markedly improves vector immunogenicity
Julie Delaloye, A. Filali-Mouhim, M. Cameron, E. Haddad, M. Esteban, G. Pantaleo, T. Roger, R. Sékaly, T. Calandra
Lausanne, Switzerland
W4.01.09 - A novel mechanism of HTLV-1-associated myelopathy/tropical spastic paraparesis (HAM/TSP) pathogenesis
Abbas Pishdadian, J. Tavakkol Afshari, M. Foroughi Poor, A. Zamani
 Mashhad, Islamic Republic of Iran
W4.01.10 - Molecular characterization of immunoglobulin (Ig) genes reveals that plasmablasts generated during heterologous secondary dengue infections and circulating memory B cells after recovery are of distinct origin
Rama praba Appanna, M.H. Xu, V. Hadinoto, K. Joensson, Y.X. Toh, T. Balakrishnan, Y.S. Leo, C. Wang, K. Fink
Singapore, Singapore
W4.01.11 - Chronic viral infection alters subnuclear localization of PD-1 and L-selectin loci linked to transcriptional programming in LCMV-specific CD8 T-cells
New York, USA
W4.01.12 - The anti-apoptotic protein Mcl-1 is essential for the CD8 T cell response upon chronic viral LCMV infection
Eleonora Ottina, S.P. Preston, A. Strasser, M. Pellegrini, A. Villunger
Innsbruck, Austria

W4.01.13 - Pregnancy-induced deviation of chemokine/cytokine serological levels during influenza virus AH1N1 infection
México City, Mexico

W4.01.14 - Spred-2 deficiency exacerbates Influenza A Virus (H1N1)-induced pneumonia
Toshihiro Ito, A. Yoshimura, A. Matsukawa
Okayama, Japan

W4.02 - Liver viral infections
Chairs: Mario Mondelli (ITA) - Frank Chisari (USA)

IL4.02.01 - Innate Sensing A Virus Designed Not To Be Seen
Francis V. Chisari
La Jolla, United States

IL4.02.02 - NK cells and HCV: a complex and controversial relationship
Mario U. Mondelli, S. Varchetta, B. Oliviero, S. Mantovani, D. Mele
Pavia, Italy

W4.02.01 - Dynamic changes in the liver upon persistent viral infection
A. Bhattacharya, J. Colinge, K. Bennett, Andreas Bergthaler
Vienna, Austria

W4.02.02 - Reactive oxygen species delay control of lymphocytic choriomeningitis virus
Dusseldorf, Germany

W4.02.03 - Cellular inhibitors of apoptosis (IAPs) play a critical role in the host response to hepatitis B virus and their repression promotes viral clearance
Gregor Ebert, S. Preston, C. Allison, J. Toe, J. Cooney, H. Scott, M. Pellegrini
Melbourne, Australia

W4.02.04 - Imaging the innate immune response to viral infection: neutrophils, platelets, and NETs
Calgary, Canada

W4.02.05 - Tim-3/galecin-9 pathway modulates the cross talk between NK cells and CD8+ T cells in chronic hepatitis B
D. Zhao, L. Gao, X. Liang, Chunhong Ma
Jinan, China

W4.02.06 - Breaking T cell tolerance to viral antigens in a model of chronic HBV infection
Pamplona, Spain

W4.03 - HIV pathogenesis and immunity
Chairs: Guido Poli (ITA) - Andrea Cossarizza (ITA)

IL4.03.01 - The Fight Between HIV Infection and Macrophage Polarization
Guido Poli
Milano, Italy

W4.03.01 - Endoplasmic reticulum aminopeptidase 2 (ERAP2) haplotypes play a role in antigen presentation and resistance to HIV-1 infection
Irma Saulle, M. Biasin, F. La Rosa, M. De Luca, D. Trabattoni, M. Sironi, R. Cagliani, F. Mazzotta, S. Lo Caputo, M. Clerici

Milan, Italy

W4.03.02 - Molecular characterization of high avidity CD4+ T cells in HIV controllers

Daniela Benati, M. Galperin, O. Lambotte, A. Lim, B. Lemercier, S. Hendou, F. Boufassa, J. Delfraissy, F. Arenzana-Seisdedos, L. Chakrabarti

Paris, France

W4.03.03 - Characterization of HIV-1 specific T cell response in an Italian cohort of HIV-1 natural controllers


Milan, Italy

W4.03.04 - NK cells in HIV controller patients express an activated effector phenotype and do display unique NKP46, NKP30, NKP44 modulation on IL-2 stimulation


Genoa, Italy

W4.03.05 - Inhibition of human immunodeficiency virus type-1 replication in CD4+ NKT cells by γδ T lymphocytes


Tokyo, Japan

W4.03.06 - Immune exposure to a specific sequence of antibody escape variants could program long-term potential for neutralization breadth in subtype A HIV-1 infection


Atlanta, USA

W4.03.07 - Decrease of CD73 expressing CD8 T cells in the course of HIV infection correlates with immune activation and T cell exhaustion

Ilona Tóth, A.Q. Le, P. Hartjen, A. Thomssen, C. Beisel, A.W. Lohse, J. Hauber, J. van Lunzen, J.C.R. Schulze zur Wiesch

Hamburg, Germany

W4.03.08 - Telomere length and CD38 expression on monocytes and CD8 T cells of HIV infected people

Maciej Tarkowski, D. Misciagna, F. Strambio de Castiglia, C. Gervasoni, C. Resnati, L. Ferraris, R. Piolini, M. Galli, A. Riva

Milan, Italy

W4.03.09 - HIV-1 infection impairs CD34+ hematopoietic progenitor cells differentiation toward dendritic cells

Veronica Bordoni, D. Viola, A. Sacchi, G. Castelli, M. Bibas, A. Ammassari, C. Agrati, A. Amendola, I. Abbate, F. Martini

Rome, Italy

W4.03.10 - Over-production of BAFF by dendritic cells and inflammatory monocytes during primary HIV-1 infection

Gwenoline Borhis, N. Chaoul, C. Gilbert, C. Gras, C. Goujard, L. Meyer, S. Paul, H. Saoudin, J. Herbeuval, Y. Richard

Paris, France

W4.03.11 - HIV-infected T cells are migratory vehicles for viral dissemination


Boston, USA

W4.03.12 - TLR3 activation on dendritic cells causes complete suppression of HIV-1 infected
dendritic cells by inducing up-regulation of microRNA-155 and APOBEC-3G

**Fiorella P. Rossi**, G. Swaminathan, J. Martin-Garcia
Philadelphia, USA

**W4.03.13 - Trogocytosis between germinal center B cells and TFH cells during acute SIV infection of macaques**

**Ankita Chowdhury**, P.M. Del Rio Estrada, M. Reuter, N. Patel, T. Hayes, S.E. Bosinger, J.D. Estes, M. Pialiardini, M. Betts, G. Silvestri
Atlanta, USA

**W4.03.14 - Characterization of XCR1⁺ dendritic cells in healthy and SIV-infected rhesus macaques**

**Charles-Antoine Dutertre**, J. Jourdain, M. Rancez, S. Amraoui, Y. Richard, M. Dalod, V. Feuillet, R. Cheynier, A. Hosmalin
Paris, France

**W4.04 - Immunity to bacterial infection (excluding mycobacteria)**

**Chairs**: Martin Olivier (CAN) - Peter Sebo (CZE)

**IL4.04.01 - Lesson from Leishmania Infection to Combat Bacterial-Mediated Inflammatory Response**

**Martin Olivier**
Montréal, Canada

**IL4.04.02 - Fooling phagocytes and delivering T cell vaccines: The ‘yin and yang’ of Bordetella adenylate cyclase toxin**

**Peter Sebo**
Prague, Czech Republic

**W4.04.01 - Orchestration of inflammation and adaptive immunity in *Borrelia burgdorferi*-induced arthritis by NapA**

**Gaia Codolo**, F. Bossi, P. Durigutto, M.M. D'Elios, M.A. Cassatella, M. de Bernard
Padua, Italy

**W4.04.02 - Imaging *Bacillus anthracis* edema toxin effects on normalized murine dendritic cells and macrophages**

**Yannick Trescos**, D. Fiole, M. Mullier, J.N. Tournier
La Tronche, France

**W4.04.03 - Role for coagulation factor XI during pneumococcal pneumonia independent of factor XII activation.**

Amsterdam, Netherlands

**W4.04.04 - The macrophage serves as a gate-keeper for the induction of protective host immunity and bacterial dissemination during *Chlamydia* infection**

**Eric Gracey**, Y. Baglaenko, A. Lin, A. Akram, R.D. Inman
Toronto, Canada

**W4.04.05 - B cells participate on the early stages of immune response against intracellular bacterial pathogen *Francisella tularensis***

Hradec Kralove, Czech Republic

**W4.04.06 - Immune evasion in *Leptospira*: the secretion of proteases that cleave complement proteins**

São Paulo, Brazil

**W4.05 - Immunity to mycobacterial infection**

**Chairs**: Anca Dorhoi (DEU) - Harriet Mayanja-Kizza (UGA)
IL4.05.01 - Ex vivo chemokines and cytokines measurements as biological markers in the immuno-diagnosis of active pulmonary tuberculosis
Harriet Mayanja-Kizza, A. Namuganga, M. Nsereko, G. Muzanye, J. Baseke, P. Peters
Kampala, Uganda, Uganda

W4.05.01 - Antigen transfer drives CD4 T cell activation in tuberculosis
Smita Srivastava, J. Ernst
New York, USA

W4.05.02 - Accumulation of Gr-1dim myeloid-derived suppressor cells during experimental TB infection in mice
Evgeny N. Tsiganov, A.M. Razinkova, I.V. Lyadova
Moscow, Russian Federation

W4.05.03 - Annexin1 plays a critical role in dendritic cells cross-presentation and protection against Mycobacterium tuberculosis
Montreal, Canada

W4.05.04 - Analysis of the global CD8 T cell response during Mycobacterium tuberculosis infection
Palermo, Italy

W4.05.05 - Cytokine polymorphisms, their influence and levels in Brazilian patients with pulmonary tuberculosis during anti-tuberculosis treatment
Botucatu, Brazil

W4.05.06 - Mycobacterium tuberculosis-specific lung innate and adaptive immunity in close contacts of TB index cases
Jonathan G. Peter, A. Binder, M. Davids, R. Meldau, R. van Zyl-Smit, K. Dheda
Cape Town, South Africa

W4.06 - Immunity to fungal infection
Chairs: Vera Calich (BRA) - Betty Wu-Hsieh (TWN)

IL4.06.01 - The crucial role of indoleamine 2,3-dioxygenase (IDO) in the tolerogenic and immunogenic mechanisms against Paracoccidioides brasiliensis infection
Vera L.G. Calich, E.F. Araújo
São Paulo, Brazil

IL4.06.02 - Dectin-2 and NLRP3 Are Involved in Inflammasome Activation in Dendritic Cell Response to Histoplasma Stimulation
Betty Wu-Hsieh, T. Chang
Taipei, Taiwan

W4.05.01 - IL-17 regulates fungal immunity by controlling the functional competence of NK cells
Eva Bár, S. LeibundGut-Landmann
Zürich, Switzerland

W4.06.02 - LAB/NTAL facilitates fungal/PAMP-induced IL-12 production and Th1 responses by repressing β-catenin activation in dendritic cells
Cardiff, United Kingdom

W4.06.03 - IL-33-dependent signalling regulates innate and adaptive immunity following pulmonary Cryptococcus neoformans infection

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Montreal, Canada

W4.06.04 - Pathogen recognition by the long pentraxin PTX3: fine tuning by protein glycosylation
Antonio Inforzato, M. Sironi, S. Valentino, B. Bottazzi, A. Mantovani
Milan, Italy

W4.06.05 - Enhancement of innate immune response to *Penicillium marneffei* conidia by cooperative interaction of pattern recognition receptors
Sansanee C. Chaikyaroj, N. Ngaosuwannakul, M. Thongpan, Y. Srinoulprasert, P. Chansrichavala
Bangkok, Thailand

W4.06.06 - Are lipid rafts involved in the immune response to *Candida albicans*?
R. Teloni, A. Torosantucci, S. Becattini, F. Sallusto, R. Nisini, Maria C. Gagliardi
Rome, Italy

W4.07 - Immunity to helminth infection
Chairs: Shigeo Koyasu (JPN) - Anne La Flamme (NZL)

IL4.07.01 - Driving disease outcome in schistosomiasis: correlating antibody to disease severity
Anne C. La Flamme, B. Manivannan, J. Jaurigue, T.W. Jordan, W.E. Secor, B. Doughty
Wellington, New Zealand

W4.07.01 - CD209a expression on dendritic cells is critical for the development of pathogenic Th17 cell responses in murine schistosomiasis
Boston, USA

W4.07.02 - Immunological changes in epidermal keratinocytes following infection with schistosome cercariae.
Claire D. Bourke, A.P. Mountford
York, United Kingdom

W4.07.03 - Basophils contribute to the Th2-type protective immunity against re-infection with intestinal helminths
Kazushige Obata-Ninomiya, H. Tsutsui, K. Ishiwata, N. Watanabe, H. Kanuka, H. Karasuyama
Tokyo, Japan

W4.07.04 - Innate and adaptive IL-9 orchestrate type 2 immunity
Paula Licona-Limón, J. Henao-Mejía, N. Gagliani, I. Licona-Limón, D.R. Herbert, R.A. Flavell
New Haven, USA

W4.07.05 - Mechanisms of the lymphocyte hypo-responsiveness after repeated exposure of the skin to *Schistosoma mansoni* cercariae
Catriona T. Prendergast, P. Cook, A. Mountford
York, United Kingdom

W4.07.06 - IL-10 secreting, type 1 regulatory T cells and naturally occurring regulatory T cells differently modulate IgG secretion by B cells in human hypo-responsive onchocerciasis
Bonn, Germany

W4.08 - Immunity to protozoan parasite infection
Chairs: Franck Brombacher (ZAF) - Nick W. Lukacs (USA)

W4.08.01 - Deletion of IL-4 receptor alpha on dendritic cells renders BALB/c mice hypersusceptible to *Leishmania major* infection
Cape Town, South Africa

W4.08.02 - Recognition of Leishmania parasites by the macrophage-inducible C-type lectin Mincle

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subverts adaptive immunity and promotes susceptibility to infection

Salvador Iborra, H. Izquierdo, N. Enamorado, R. Conde, R. Reguera, M. Soto, D. Sancho
Madrid, Spain

W4.08.03 - Marginal zone B-cells suppress antigen-specific T-cell responses during experimental L. donovani infection
R. Bankoti, K. Gupta, Simona Stager
Laval, Canada

W4.08.04 - Cellular immune polarization to a cell phenotype Th-1 and T-Reg is induced after the treatment of human dendritic cells infected by Leishmania with the compound 11α,19β-dihydroxy-7-acetoxy-7-deoxoichangin
Gabriela Delgado, D. Granados-Falla, C. Coy-Barrera, L. Cuca
Bogota, Colombia

W4.08.05 - Protective CD8+ T effector memory cells elicited by heterologous prime-boost vaccination expand and re-circulate after an infectious challenge with Trypanosoma cruzi
São Paulo, Brazil

W4.08.06 - Immunological mechanisms of co-infection of schistosomiasis and malaria in a primate model
Nairobi, Kenya

W4.09 - Malaria pathogenesis and vaccines

Chairs: Ursula Krzych (USA)- Donatella Taramelli (ITA)

IL4.09.01 - Malaria and its delectable mammalian organ - the liver
Urszula Krzych, A.V. Pichugin, S.N. Zarling, O. Joebe
Silver Spring, United States

IL4.09.02 - Pathogenetic role of hemozoin (malaria pigment) in severe P. falciparum malaria
N. Basilico, Y. Corbett, S. Parapini, S. D'Alessandro, D.P. Ilboudo, D. Scaccabarozzi, Donatella Taramelli
Milano, Italy

W4.09.01 - Antibodies to Plasmodium falciparum merozoite surface protein and neutrophil respiratory burst activity are associated with clinical outcome in severe urban malaria
Babacar Mbengue
Dakar, Senegal

W4.09.02 - Hemozoin induces lung inflammation and correlates with malaria-associated acute respiratory distress syndrome
Leuven, Belgium

W4.09.03 - IL-27 receptor signalling restricts the formation of pathogenic, terminally differentiated Th1 cells during malaria infection by repressing IL-12 dependent signals
Manchester, United Kingdom

W4.09.04 - Apolipoprotein E is critical for the development of cerebral malaria
Fikregabrail A. Kassa, M. Olivier;
Montreal, Canada

W4.09.05 - Validation of novel antigenic targets identified by whole-genome screening for next-generation malaria vaccines
Sophie Schussek, A. Trieu, S.H. Apte, D.L. Doolan

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Brisbane, Australia
W4.09.06 - Progress towards a broadly neutralizing vaccine against the asexual blood-stage of Plasmodium falciparum
Alexander D. Douglas, A.R. Williams, J.J. Illingworth, K. Hjerrild, S.J. Draper
Oxford, United Kingdom

W4.12 - Microbiome, gut flora and inflammation
Chairs: Haribabu Bodduluri (USA) - Reina Mebius (NLD)
IL4.12.01 - Adenoma induced reshaping of the gut microbiome controls host dependent progression of colon cancer
Louisville, United States
IL4.12.02 - Control of mucosal immune responses by vitamin A
Reina Mebius, G. Gousse, B. Olivier, R. Molenaar, M. Knippenberg, M. Greuter, T. Konijn, T. O’Toole, G. Bouma
Amsterdam, Nederland

W4.12.01 - The molecular characterization of Helicobacter activated regulatory B cells and their role in gastric immunopathology
Ayca Sayi Yazgan, M. Karayilan, N. Mansur, A. Müller
Istanbul, Turkey

W4.12.02 - Dietary fibers downregulate low-grade inflammation systemically in mice
Frederiksberg, Denmark

W4.12.03 - Critical IL-23 based cross regulation of colonic DCs by macrophages protects mice from Citrobacter challenge
Tegest Ayech, A. Mildner, S. Yona, K. Kim, S. Jung
Rehovot, Israel

W4.12.04 - Fungal communities throughout the intestine and their role in intestinal inflammation
Iliyan D. Iliev, V. Funari, D. Underhill
Los Angeles, USA

W4.12.05 - Diet and gut microbiota play a key role in autoimmune diabetes
E. Marino, Eliana Marino
Melbourne, Australia

W4.12.06 - Probiotics as immune-regulators in the rat experimental autoimmune encephalomyelitis and myasthenia gravis models
Chiara Cordiglieri, R. Marolda, M. Elli, R. Mantegazza, F. Baggi
Milan, Italy

W4.13 - Immune regulation at barrier sites
Chairs: Piergiuseppe De Beradinis (ITA) - Markus F. Neurath (DEU)
W4.13.01 - Intestinal epithelium-intrinsic Notch signalling maintains mucosal immune homeostasis by ensuring epithelial barrier functions
Yuuki Obata, D. Takahashi, Y. Furusawa, S. Hori, H. Ohno, K. Hase
Tokyo, Japan

W4.13.02 - Oral administration of poly-reactive high-affinity IgA monoclonal antibody against intestinal microbiota improved inflammatory colitis in mice
Nagahama, Japan

W4.13.03 - Caspase-8 is essential to maintain intestinal barrier function in response to mucosal pathogens

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**W4.13.04** - CD200 receptor signalling facilitates murine cytomegalovirus persistence in mucosal tissue  
**Claudia Günther**, B. Buchen, H. Neumann, M. Neurath, C. Becker  
Erlangen, Germany

**W4.13.05** - Endoplasmic reticulum stress aggravates CVB3-induced myocarditis by promoting NF-κB-mediated proinflammatory cytokine production  
Cardiff, United Kingdom

**W4.13.06** - Impaired maintenance of gut homeostasis in mice lacking GGTase-I in intestinal epithelial cells  
**Rocío López Posadas**, M.O. Bergö, C. Becker, F. Sánchez de Medina, M.F. Neurath, I. Atreya  
Erlangen, Germany

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**W5.01 - Cytokine regulation in disease**  
**Chairs:** Patricia Bozza (BRA) - Santo Landolfo (ITA)

**IL5.01.01** - Dengue infection triggers platelet-derived IL-1β: Mechanisms and roles to increased vascular permeability  
**E.D. Hottz**, J. Lopes, C. Freitas, F.A. Bozza, **Patricia T. Bozza**  
Rio de Janeiro, Brazil

**IL5.01.02** - Nuclear DNA sensor IFI16 as circulating protein in autoimmune diseases is a signal of damage that impairs endothelial cells through high-affinity membrane binding  
**M. De Andrea**, M. Bawadekar, F. Gugliési, V. Dell'Oste, V. Caneparo, A. Tincani, M. Gariglio, **Santo Landolfo**  
Turin, Italy

**IL5.01.03** - The TNF family member TL1A: a key player in type 2 immunity in both adaptive and innate lymphocytes  
**F. Meylan**, E. Hawley, L. Barron, P. Penumetcha, J. Barlow, A. Richard, T. Wynn, A. Mckenzie, I. Gery, **Richard M. Siegel**  
Bethesda, USA

**IL5.01.04** - Oxazolone and ethanol induce colitis in NOD-scid IL2Rγc-null mice engrafted with human peripheral blood mononuclear cells  
**Roswitha Gropp**, T. Nolte, M. Zadeh-Khorasani, F. Rueff, A. Wollenberg, V. Gülberg, E. Wolf, M. Siebeck  
Munich, Germany

**IL5.01.05** - Chronic infection with Toxoplasma gondii aggravates experimental sublethal sepsis induced by CLP and predisposes to septic shock  
Ribeirão Preto, Brazil

**IL5.01.06** - Foxo3 transcription factor controls susceptibility to central nervous system inflammation  
**Caroline Stienne**, N. Carrié, A. Dejean  
Toulouse, France

**IL5.01.07** - Factor Xa and thrombin stimulate an inflammatory and fibrotic response by retinal pigment epithelial cells: a role in vitreoretinal disorders?  
Rotterdam, Netherlands

**IL5.01.08** - Aberrant expression of IL-22RA1 on hematopoietic cells as immunologically signature of primary Sjogren’s syndrome and Sjogren-associated non-Hodgkin lymphomas  
**Roswitha Gropp**, T. Nolte, M. Zadeh-Khorasani, F. Rueff, A. Wollenberg, V. Gülberg, E. Wolf, M. Siebeck  
Munich, Germany

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Giuliana Guggino, F. Ciccia, A. Rizzo, S. Raimondo, A. Giardina, G. Giardina, G. Sireci, R. Alessandro, F. Dieli, G. Triolo
Palermo, Italy

W5.02 - Chronic inflammation and fibrosis

Chairs: Gianpietro Semenzato (ITA) - Thomas A. Wynn USA

IL5.02.01 - Regulation of wound healing and fibrosis by macrophages
Bethesda, United States

WS.02.01 - Th-2 cytokine producing Tregs are present in the skin of patients with systemic sclerosis
Raewyn Broady, J. Huang, K. MacDonald, J. Dunne, M.K. Levings
Vancouver, Canada

WS.02.02 - IL-33 precursor and bleomycin synergize in inducing lymphocyte accumulation and fibrosis in the lungs
Irina G. Luzina, V. Lockatell, P. Kopach, N.W. Todd, S.P. Atamas
Baltimore, USA

WS.02.03 - A short-term model of COPD identifies a role for mast cell tryptase
Newcastle, Australia

WS.02.04 - Suppressive role of neuroimmune semaphorin 4A in allergen-induced and VEGF-regulated lung inflammatory responses
Baltimore, USA

WS.02.05 - The condition of host CD4+CD25+ regulatory T cells determines the phenotype of autoimmune-like chronic GVHD
Yuki Akieda, T. Nakamura, E. Wakamatsu, Y. Obata, S. Ogawa, S. Watanabe, R. Abe
Chiba, Japan

WS.02.06 - Endogenous and immune cell derived BDNF supports regeneration in human skeletal muscle
Emanuela Colombo, F. Bedogni, I. Lorenzetti, N. Landsberger, S.C. Previtali, C. Farina
Milan, Italy

W5.03 - Genetics of autoimmunity

Chairs: Rosa Sorrentino (ITA) - Manfred Herold (AUT)

IL5.03.01 - HLA-B27 micropolymorphisms correlate with differences in function and susceptibility to Ankylosing Spondylitis
Roma, Italy

WS.03.01 - Effect of multiple genetic risk factors associated with rheumatoid arthritis on immune cell phenotypes
Lucia Chovanova, M. Vlcek, K. Krskova, F. Spoutil, J. Rovensky, R. Brownie, R. Zamoyska, R. Imrich Bratislava, Slovakia

WS.03.02 - Variants in the IRF5-TNPO3 locus are associated with the development of lupus and its clinical presentation and shared with other autoimmune disorders
Cincinnati, USA

WS.03.03 - The lupus-associated variant of the ITGAM allele (rs1143679) impairs phagocytosis, but not migration nor TLR7/8 induced cytokine release
Genetic variants in PXK are associated with the development of lupus and critically regulate BCR internalization

Enhanced apoptosis by disruption of the STAT3-ITB-ζ signalling pathway in epithelial cells induces Sjögren’s syndrome-like autoimmune disease

Vav1 cooperate with Themis to modulate regulatory T cell suppressive functions

Environmental factors in autoimmunity and allergy

Ectopic lymphoid structures support Epstein-Barr virus persistence and autoreactive plasma cell infection in Sjögren’s syndrome salivary glands

A single non-synonymous polymorphism of TLR2 is sufficient to recapitulate the variability of experimental multiple sclerosis

High salt diet exacerbates autoimmune disease by induction of pathogenic Th17 cells

Aryl hydrocarbon receptor modulates psoriatic skin inflammation

IL-33-mediated innate response and adaptive immune cells contribute to maximum responses of protease allergen-induced allergic airway inflammation

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W5.06 - Regulatory T cells in autoimmunity and allergy

Chairs: Thomas Hünig (DEU) - Dario Vignali (USA)

IL5.06.01 - The CD28 superagonist TGN1412: After the storm

*Thomas Hünig*

Würzburg, Germany

IL5.06.02 - Molecular Control of Treg Stability and Function

*Dario Vignali*

Memphis, United States

W5.06.01 - TRAF6 is essential for maintenance of regulatory T cells and suppression of Th2 type inflammation


Tokyo, Japan

W5.06.02 - Breakdown of immune tolerance by quantitative and qualitative alterations of ZAP-70


Osaka, Japan

W5.06.03 - KLRG1 expression in ICOS⁺Foxp³⁺ Treg cells delineates a functionally fatigued Treg subset during T1D progression in NOD mice

*Mara Kornете*, C. Piccirillo

Montreal, Canada

W5.06.04 - B cell derived IFN-γ contributes to the negative regulation of T regulatory cell differentiation in arthritis

*Susan A. Olalekan*, Y. Cao, T. Glant, A. Finnegan

Chicago, USA

W5.06.05 - The in vivo impact of CD25 blockade on human regulatory T cells and evidence for compensatory maintenance by IL2Rγc and IL7R signalling

*D. Huss*, D. Mehta, A. Sharma, L. Amaravadi, J. Elkins, *Jason D. Fontenot*

Cambridge, USA

W5.06.06 - Restoration of normoglycemia in diabetic NOD mice by oral L. lactis secreting human pro-insulin plus IL-10 combined with short-term low-dose anti-CD3 is dependent on FOXP3⁺ Tregs

*Tatiana Takiishi*, T. van Belle, S. Robert, H. Korf, P. Rottiers, C. Gysemans, C. Mathieu

Leuven, Belgium

W5.07 - Animal models of autoimmunity

Chairs: Clelia Maria Riera (ARG) - Costantino Pitzalis (GBR)

IL5.07.01 - Experimental model of autoimmune prostatitis

*Clelia M. Riera*, M. Maccioni, R. Motrich, V. Rivero

Cordoba, Argentina

W5.07.01 - Effector memory exhausted tissue resident CD8 T cells accumulate during chronic experimental autoimmune uveitis

*Joanne Boldison*, D. Copland, A.D. Dick, L.B. Nicholson

Bristol, United Kingdom

W5.07.02 - Small intestine inflammation in roquin-mutant and roquin-deficient mice


Houston, USA

W5.07.03 - Tolerance induction by hair-specific keratins in murine alopecia areata

*Ulrike Erb*, P. Freyschmidt-Paul, M. Zoeller

Heidelberg, Germany
W5.07.04 - Inducible tertiary lymphoid structures, autoimmunity, and exocrine dysfunction in a novel model of sialoadenitis in wild-type mice
Davide Lucchesi, M. Bombardieri, S. Nayar, G. Proctor, F. Barone, C.D. Buckley, C. Pitzalis
London, United Kingdom

W5.07.05 - Phenotype conversion from rheumatoid arthritis to systemic lupus erythematosus by introduction of Yaa mutation into FcγRIIB-deficient C57BL/6 mice
Tokyo, Japan

W5.07.06 - SPARC deficiency promotes lupus like autoimmunity by defective clearance of dead PMN
Caterina Vitali, S. Sangaletti, C. Tripodo, C. Bassani, M. Parenta, M.P. Colombo
Milan, Italy

W5.08 - Atherosclerosis and cardiovascular diseases
Chairs: Goran Hansson (SWE) - Michelle Letarte (CAN)

IL5.08.01 - T cells regulate lipid metabolism and vascular stability. Role in atherosclerosis
Goran K. Hansson
Stockholm, Sweden

IL5.08.02 - Anti-VEGF therapy normalizes pulmonary vasculature in Endoglin and Alk1 heterozygous mice
Michelle Letarte et al, Toronto, Canada

W5.08.01 - Circulating CD40+ and CD80+B cell subsets are opposingly associated with risk of stroke
Fredrikson
Malmö, Sweden

W5.08.02 - Genetically controlled myocardial expression of CXCL9 may be responsible for the selective migration of Th1 T cells and magnitude of myocarditis in Chagas disease cardiomyopathy
Edecio Cunha-Neto, L. Nogueira, R.H. Santos, B.M. Ianni, A. Frade, L. Benvenuti, E. Donadi, B. Saba, A. Fragata, J. Kaili
Sao Paulo, Brazil

W5.08.03 - TGF-β signalling in T cells promotes stabilization of atherosclerotic plaques through an IL-17 dependent pathway
Stockholm, Sweden

W5.08.04 - A novel role for Rip2 in T cell regulation; Rip2 deficiency leads to increased Th17 skewing
Kenichi Shimada, S. Chen, T. Crother, W. Zhang, M. Arditi
Los Angeles, USA

W5.08.05 - TIPE2 prevents atherosclerosis by negatively regulating macrophage responses to oxLDL
Y. Lou, Suxia Liu, G. Zhang, Y. Chen, Y. Zhang
Jínan, China

W5.08.06 - Co-stimulatory signalling through lymphocyte CD40 limits adipose tissue inflammation and protects from de novo and pre-established metabolic disease in mice
Dennis Wolf, F. Jehle, N. Bukosza, P. Aichele, N. Varo, C. Bode, P. Libby, K. Peter, A. Zirlik
Freiburg, Germany

W5.09 - Neuroimmunology
Chairs: Luca Battistini (ITA) - Fraucke Zipp (DEU)

IL5.09.01 - EBV specific CD8+ T cells in Multiple Sclerosis
Luca Battistini
Rome, Italy

W5.09.01 - Regulatory T cells together with resolving macrophages orchestrated by Th1 cells are non-redundant pivotal players in CNS repair
*Catarina Raposo*, M. Schwartz
Rehovot, Israel

W5.09.02 - Triggers of anti-CNS autoimmunity in mouse model of multiple sclerosis
*Pushpalatha Palle*, T. Buch
Munich, Germany

W5.09.03 - IL-33/ST2 axis mediates resistance to EAE by promoting regulatory B and tolerogenic dendritic cells
Kragujevac, Serbia

W5.09.04 - N-methyl-D-aspartate receptor (NMDAR) antibodies in post Herpes Simplex virus encephalitis neurological relapse
Oxford, United Kingdom

W5.09.05 - Neuroimmunological changes in the Cstb⁻/⁻ mouse: a model for progressive myoclonus epilepsy
*Olesya Okuneva*, Z. Li, I. Körber, L. Tian, T. Joensuu, A. Lehesjoki, O. Kopra
Helsinki, Finland

W5.09.06 - Elucidation of pathogenic mechanism of myasthenia gravis with MuSK antibodies using a novel murine model
*M. Shuuichi*, S. Kubo, M. Kishi, T. Konishi, *Kazuhiro Shigemoto*
Tokyo, Japan

**W5.10 - Multiple sclerosis**

**Chairs:** Roland Liblau (FRA) - Marco Salvetti (ITA)

IL5.10.01 - CNS tissue damage by T cells
*Roland Liblau*
Toulouse, France

IL5.10.02 - Immunological knowledge integration in MS
*Marco Salvetti*
Rome, Italy

W5.10.01 - Identification, isolation and characterization of brain-infiltrating, in situ clonally expanded T cell clones in multiple sclerosis
Zürich, Switzerland

W5.10.02 - T cells specific for both a myelin and a neuronal antigen are frequent in C57BL6 mice and contribute to CNS inflammation during EAE
Toulouse, France

W5.10.03 - Cell-intrinsic estrogen receptor [activation in CD4⁺ T cells control Th1/Th17 differentiation in trans and protect from CNS autoimmunity
*Sophie Laffont*, L. Garnier, N. Rouquié, J. Guéry
Toulouse, France

W5.10.04 - A role for TNF signalling in cortical grey matter pathology in multiple sclerosis
*Roberta Magliozzi*, P. Durrenberger, O. Howell, F. Roncaroli, E. Aricò, F. Aloisi, R. Reynolds
London, United Kingdom
W5.10.05 - Characterization of the impact of CD25 blockade on the NK and T cell populations of relapsing-remitting multiple sclerosis patients
David J. Huss, D.S. Mehta, L. Amaravadi, J.S. Elkins, J.D. Fontenot
Cambridge, USA

W5.10.06 - Confirmation of human endogenous retrovirus HERV-Fc1 role in multiple sclerosis risk
Madrid, Spain

W5.12 - Rheumatoid arthritis and other inflammatory joint diseases
Chairs: Olivier Boyer (FRA) - Claudio Lunardi (ITA)

IL5.12.01 - Necrotizing autoimmune myopathy: emergence of a new autoimmune disease
Olivier Boyer, L. Drouot, F. Jouen, Y. Allenbach, J. Charuel, L. Musset, I. Marie, O. Benveniste, & French Myositis Network
Rouen, France

IL5.12.02 - Role of soluble CD30/CD30L and of CD30/CD30L+ T cells in the modulation of inflammatory response in rheumatoid synovitis
A. Barbieri, E. Tinazzi, A. Rigo, R. Gerli, G. Patuzzo, R. Beri, A. Puccetti, Claudio Lunardi
Verona, Italy

W5.12.01 - DERAA directed T cells: a link between HLA-II association and rheumatoid arthritis
Leiden, Netherlands

W5.12.02 - Impaired TNFα production by dendritic cells from rheumatoid arthritis patients upon contact with Porphyromonas gingivalis
Kim C.M. Santegoets, M.H. Wenink, W.B. van den Berg, T.R.D.J. Radstake
Utrecht, Netherlands

W5.12.03 - Antibodies from rheumatoid arthritis patients target citrullinated histone 4 contained in neutrophils extracellular traps
F. Pratesi, I. Dioni, M. Alcaro, I. Paolini, F. Panza, I. Puxeddu, P. Rovero, Paola Migliorini
Pisa, Italy

W5.12.04 - DNAse IgG activity in patients with early arthritis
Marharyta Volkava, A. Kundzer, I. Generalov
Vitebsk, Belarus

W5.12.05 - Endogenous SLPI controls B cell survival factor expression in TLR3-stimulated rheumatoid synovial fibroblasts
Ngar W. Kam, F. Brentano, D. Kyburz, S. Gay, A. Filer, C. Buckley, C. Pitzalis, M. Bombardieri
London, United Kingdom

W5.12.06 - In vivo RNAi mediated silencing of HNRNP-A2 decreases chronic inflammation by inhibiting proliferative and secretory capacity of monocytic cells
Sonja Herman, J. Presumey, M. Koenders, W. van den Berg, F. Apparailley, G. Steiner
Vienna, Austria

W5.14 - Psoriasis and skin diseases
Chairs: Giampiero Girolomoni (ITA) - Andrea Cavani (ITA)

W5.14.01 - Innate immune activation promotes autoimmune response in generalized pustular psoriasis.
Munich, Germany.

W5.14.02 - PD-1 and other new molecules in the psoriatic infiltrate: an immunohistochemical and
confocal laser microscopic study

Daniele Fanoni, B. Vergani, S. Recalcati, S. Tavecchio, A.V. Marzano, A. Villa, E. Berti
Milan, Italy

W5.14.03 - Inhibition of keratinocyte differentiation by the synergistic effect of pro-inflammatory cytokines mimics psoriasis

H. Rabeony, I. Paris, J. Garnier, C. Barrault, N. Pedretti, K. Guilloteau, V. Huguiier, F. Bernard, J. Lecron,
Franck Morel
Poitiers, France

W5.14.04 - In vivo induction of cutaneous inflammation results in the accumulation extracellular trap forming neutrophils expressing ROR\(\gamma\) and IL-17, while IL-17\(^{+}\)ROR\(\gamma\)\(+\) T cells remain absent

R.R.M.C. Keijzers, P.E.J. van Erp, P.C.M. van de Kerkhof, I. Joosten, Hans J.P.M. Koenen
Nijmegen, Netherlands

W5.14.05 - Skin inflammation in Act1-deficient mice is T cell intrinsic and due to exaggerated Th17 derived IL-22

Ling Wu, C. Wang, V.K. Kuchroo, W. Ouyang, X. Li
Cleveland, USA

W5.14.06 - Autoreactive T cells in chronic idiopathic urticaria target the high-affinity IgE receptor \(\alpha_\varepsilon\) subunit (Fc\(\varepsilon\)RI\(\alpha\))

Priscilla Auyeung, D. Mittag, P. Hodgkin, L. Harrison
Melbourne, Australia

W5.16 - Liver immunology

Chairs: Pietro Invernizzi (ITA) - Eli Pikarsky (ISR)

IL5.16.01 - Progress in the genetics and epigenetics of primary biliary cirrhosis

Pietro Invernizzi, M. Correnti, C. Mascheroni, A. Lleo, F. Bernuzzi, I. Bianchi
Rozzano (MI), Italy

IL5.16.02 - Constitutive IKK Activation Promotes Hepatocellular Carcinoma via Formation of inflammatory Micro-niches

Eli Pikarsky, S. Finkin, D. Yuan, I. Stein, K. Taniguchi, K. Rajewsky, M. Karin, Y. Ben-Neriah, M. Heikenwalder
Jerusalem, Israel

W5.16.01 - IL-17A produced by \(\gamma\)\(\gamma\) cells promotes tumor growth in hepatocellular carcinoma

S. Ma, Q. Cheng, Y. Cai, Y. Wu, X. Yu, Haiyan Liu
Suzhou, China

W5.16.02 - A second generation therapeutic cellular vaccine for hepatitis C virus

Adelaide, Australia

W5.16.03 - Gender predominance is mediated via testosterone in a mouse model of autoimmune cholangitis

Dorothee Schwinge, A. Carambia, A. Quaas, C. Wegscheid, G. Tieg, A.W. Lohse, J. Herkel, C. Schramm
Hamburg, Germany

W5.16.04 - CD49a\(^{+}\)DX5\(^{-}\) NK cells are liver-resident and confer adaptive immunity in skin-contact inflammation

Zhigang Tian, H. Peng, X. Jiang, Y. Chen, D. Sojka, H. Wei, R. Sun, W. Yokoyama
Hefei, China

W5.16.05 - Phenotypic evaluation of CD28 negative T cells in primary sclerosing cholangitis

Birmingham, United Kingdom

W5.16.06 - Tumor-infiltrating IL-10 producing T cells are potent suppressors of the local anti-tumor immunity in patients with liver cancer

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Rotterdam, Netherlands

**W5.17 - Autoinflammatory diseases**

**Chairs:** Prakash Nagarkatti (USA) - Anna Rubartelli (ITA)

**IL5.17.01 - Epigenetic regulation following AhR activation leads to suppression of inflammatory and autoimmune diseases**
*Prakash Nagarkatti, M. Rouse, N. Singh, M. Nagarkatti*
South Carolina, United States

**IL5.17.02 - Autoinflammatory diseases**
*Anna Rubartelli*
Genova, Italy

**W5.17.01 - The molecular link between PSTPIP1 and S100A8/S100A9 in autoinflammatory diseases**
*Selina Fassl, D. Holzinger, J. Austermann, T. Vogl, J. Roth*
Muenster, Germany

**W5.17.02 - Increased Nlrp3-dependent IL-1beta secretion in patients with familial mediterranean fever: correlation with Mefv genotype**
*Alessia Omenetti, S. Carta, L. Delfino, A. Martini, M. Gattorno, A. Rubartelli*
Genoa, Italy

**W5.17.03 - Defective IFN-γ-induced indoleamine 2,3-dioxygenase production in patients with macrophage activation syndrome**
Leuven, Belgium.

**W5.17.04 - Study MHC-II presentation of multiple sclerosis associated autoantigen using antibodies with T cell receptor specificity.**
*Efrat Altman, Y. Reiter*
Haifa, Israel

**W5.17.05 - Identification of commensal flora associated antigen, as a pathogenic factor of autoimmune pancreatitis**
*Yoshihiro Abe, N. Yanagisawa, I. Haruta, K. Shiratori, J. Yagi*
Tokyo, Japan

**W5.17.06 - Soluble CD91/LRP1 is elevated in the sera of a subset of children with different inflammatory diseases**
*Marianna M. Newkirk, R. Balhous, A. Cimino, Z. Li, S. Magalhaes, A. Bar-Or, A. Rosenberg*
Montreal, Canada

**W5.18 - Inflammatory bowel diseases**

**Chairs:** Silvio Danese (ITA) - Fabio Cominelli (USA)

**W5.18.01 - Depletion of regulatory T cells improves anti-tumour immunity in colitis-associated colon cancer**
*E. Pastille, K. Schumann, D. Fleissner, W. Hansen, T. Sparwasser, J. Buer, Astrid M. Westendorf*
Essen, Germany

**W5.18.02 - RIP3 promotes injury-induced cytokine expression and tissue repair**
*Kenta Moriwaki, F.K. Chan*
Worcester, USA

**W5.18.03 - Induction of IL-33 is dependent on the gut microflora and is essential for EOS activation/migration and Th2 immune responses in the pathogenesis of experimental IBD**
*Carlo De Salvo, X. Wang, S. Chowdhry, D. Corridoni, F. Cominelli, J.J. Lee, W. Xin, T.T. Pizarro*
Cleveland, USA

W5.18.04 - Targeting IL-23/Th17 axis to suppress intestinal inflammation in murine spontaneous colitis induced by an epithelial defect
Ran Wang, S. Hasnain, H. Tong, I. Das, A. Chen, T. Florin, R. Eri, M. McGuckin
Brisbane, Australia

W5.18.05 - The p50 NF-κB subunit is a key orchestrator of cancer-related intestinal inflammation
Chiara Porta, L. Carraro, M.G. Totaro, M. Rimoldi, F. Pasqualini, M. Nebuloni, A. Sica
Novara, Italy

W5.18.06 - Novel HLA-DR transgenic mice that spontaneously develop colitis with serious defects in lymphoid organs
Atsushi Irie, J. Yatsuda, Y. Michibata, T. Kubo, T. Imamura, N. Takeda, I. Shibuya, S. Sogo, Y. Nishimura
Kumamoto, Japan

W5.19 - Reproductive immunology
Chairs: Sandra Blois (DEU) - Gerard Chaouat (FRA)

IL5.19.01 - Galectins in pregnancy: the bitter side of sweet
Sandra M. Blois
Berlin, Germany

IL5.19.02 - Fetal loss induced by depletion of innate 33D1+ dendritic cell subset in mice
Tokyo, Japan

IL5.19.03 - HLA-G expressing DC-10 and CD4+ T cells accumulate in human decidua in the first trimester of pregnancy
Milan, Italy

W5.19.04 - Placental cells promote a tolerant fetal environment by inducing homeostatic macrophages and regulatory T cells
Judit Svensson Arvelund, R.B. Mehta, E. Mirrassakhian, S. Freland, G. Berg, M.C. Jenmalm, J. Emerudh
Linköping, Sweden

W5.19.05 - Demonstration of the deleterious impact of foeto-maternal MHC identity on the success of pregnancy in a macaque model
A. Aarnink, E.T. Mee, N. Savy, N.J. Rose, Antoine Blancher
Toulouse, France

W5.19.06 - The atypical chemokine receptor D6 is expressed by trophoblasts and plays roles in placental formation and chemokine scavenging
Fiona M. Menzies, P.J. Teoh, C. Waddell, S.M. Nelson, R.J.B. Nibbs
Paisley, United Kingdom

W5.19.07 - Genital Chlamydia trachomatis infection induced microRNA profiles may contribute to associated inflammation and reproductive sequelae
San Antonio, USA

W5.20 - Tumor immunity and immunosurveillance
Chairs: Ron Apte (ISR) - Shubhda Chiplunkar (IND)

IL5.20.01 - IL-1β is a major inflammatory cytokine that mediates the angiogenic switch in tumor invasiveness
Ron N. Apte, Y. Carmi, S. Dotan, I. Kaplanov, Z. Shavshkevit, C.A. Dinarello, E. Voronov
Beer Sheva, Israel

IL5.20.02 - Notch regulates anti tumor functions of gamma delta T cells in oral cancer
Shubhada Chiplunkar, D. Gogoi, D. Chaukar, A. D'Cruz
Kharghar, Navi Mumbai, India
W5.20.01 - CD70 reverse signalling on NK cells enhances anti-tumoral immune response

Mohamad Al Sayed, C. Riether, C. Schürch, A. Ochsenbein
Bern, Switzerland
W5.20.02 - BRAF inhibitor impacts on melanoma cell immunogenicity

Emmanuelle Fourmentraux-Neves, M. Messaoudene, C. Nicolaizeau, M. Avril, K. Belkhiria, A. Savina, A. Caignard
Paris, France
W5.20.03 - Predictive clinical significance of tumor infiltrating neutrophils in patients with colorectal cancer
Maria Rosaria R. Galdiero, F. Grizzi, G. Di Caro, L. Laghi, C. Garlanda, A. Mantovani, S. Jaillon
Milan, Italy
W5.20.04 - MicroRNA-9 regulates maturation and function of myeloid-derived suppressor cells by modulating Runx1
Jie Tian, Y. Zhang, X. Tian, K. Rui, X. Tang, S. Wang
Zhenjiang, China
W5.20.05 - Neutrophil-1 guides regulatory T cells into tumor tissues resulting in impaired anti-tumor immunity
Wiebke Hansen, M. Hutzler, I. Helfrich, J. Buer
Essen, Germany
W5.20.06 - A novel self-lipid antigen targets human T cells against CD1c+ leukemias
Milan, Italy
W5.20.07 - Complement dependent immunosurveillance in Her-2/neu autochthonous carcinomas arising in BALB-neuT transgenic mice
Silvio Bandini, C. Curcio, M. Macagno, M. Iezzi, F. Cavallo
Torino, Italy
W5.20.08 - Active STAT5 imprints a T-Bet-dependent Tc-1 program in CD8 T cells inducing efficient regression of autochthonous melanoma
M. Grange, G. Verdeil, A. Schmitt-Verhulst, Nathalie Auphan-Anezin
Marseille, France
W5.20.09 - T cells from DNAM-1 deficient mice display polarity defects that impair anti-tumour immunity
Jane Oliaro, K. Ramstabomb, S. Russell, M. Smyth
Melbourne, Australia
W5.20.10 - Density of tertiary lymphoid structures predicts T cell infiltration with coordinated Th1 polarization and cytotoxic effector functions in human lung cancer
Paris, France
W5.20.11 - Galectin-3 is involved in the immunosuppressive activity of prostate cancer stem cells
Chiara Svetlana Brambillasca, E. Jachetti, M. Grioni, S. Mazzoleni, M. Freschi, R. Galli, M. Bellone
Milan, Italy
W5.20.12 - The BCR regulates Burkitt lymphoma survival and proliferation through the modulation of GSK3 activity
Gabriele Varano, S. Raffel, F. Zanardi, K. Rajewsky, S. Casola
Milan, Italy
W5.20.13 - Inhibiting the development of immunosuppressive Gr-1+ dendritic cells in tumors by
blocking TLR2 enhances immunotherapy

Michael Tang
Toronto, Canada

W5.20.14 - Evaluating parameters that influence T cell responses to tumor antigens: A role for B7-H4
Ramtin Rahbar, A. Lin, M. Ghazarian, T. Mak, P. Ohashi
Toronto, Canada

W5.21 - Myelo- and lympho-proliferative disorders

Chairs: Vito Pistoia (ITA) - Angelo Vacca (ITA)

IL5.21.01 - Cytokines and B cell lymphoproliferative disorders
Vito Pistoia, I. Airoldi
Genova, Italy

W5.21.01 - Variation in B cell receptor signalling between stereotypic and heterogeneous chronic lymphocytic leukemia
Alice F. Muggen, L.P. Kil, S. Yuvaraj, J.J.M. van Dongen, R.W. Hendriks, A.W. Langerak
Rotterdam, Netherlands

W5.21.02 - The bone-targeting of IL-27 is mediated by the poly-glutamic acid motif of its p28 subunit
Aurélie Jeanne Torno, L. Beaupré, G. Elson, S. Crabé, J. Gauchat
Montreal, Canada

W5.21.03 - MIP-1/CCL3-mediated maintenance of leukemia initiating cells in the initiation process of chronic myeloid leukemia
Naofumi Mukaida, T. Baba
Kanazawa, Japan

W5.21.04 - Detection of de novo IGHV mutations by ultra-deep sequencing from in vitro activated B cell chronic lymphocytic leukemia cells: Evidence for activation-induced deaminase function
Manhasset, USA

W5.21.05 - Early growth response gene 2 and 3 are essential for the regulation of tumour suppressor genes, Ikaros, Aiolos and FOXO3
Punamdip K. Bhullar, T. Miao, A.L.J. Symonds, E. Ghaffari, S. Li, P. Wang
Uxbridge, United Kingdom

W5.21.06 - CD27 signalling promotes the proliferation of human acute myeloid leukemia cells
Carsten Riether, C. Schürch, A.F. Ochsenbein
Bern, Switzerland

W5.22 - Primary immunodeficiencies

Chairs: Raffaele Badolato (ITA) - Capucine Picard (FRA)

W5.22.01 - Mucosal immune dysregulation in Omenn syndrome
Barbara Cassani, V. Maina, V. Marrella, F. Grassi, J.R. Mora, A. Villa
Milan, Italy

W5.22.02 - A new form of global leucopenia associated with mutation in the moesin gene
Chantal Lagresle-Peyrou, F. Ouchani, S. Luce, J. Stephan, C. Hivroz, G. De Saint Basile, A. Fischer, N. Jabado, M. Cavazzana-Calvo, I. André-Schmutz
Paris, France

W5.22.03 - Critical role of DOCK8 in dendritic cell trafficking during T cell immune responses
Akira Shiraishi, Y. Tanaka, Y. Fukui
Fukuoka, Japan

W5.22.04 - Investigating T cell subsets in DOCK8 immunodeficiency
Katrina L. Randall, H.D. Law, C.C. Goodnow
Woden, Australia

W5.22.05 - Resolving the heterogeneity of common variable immune deficiency by exome sequencing and deep phenotyping
Canberra, Australia

W5.22.06 - Altered B and T lymphocyte homeostasis in the bone marrow and the periphery correlates with clinical findings in common variable immunodeficiency
Vassilios Lougaris, M. Baronio, M. Vitali, S. Masneri, K. Cattivelli, G. Tampella, D. Moratto, A. Soresina, R. Badolato, A. Plebani
Brescia, Italy

W6.01 - Immunomodulation by nutrients and vitamins
Chairs: Margherita Cantorna (USA) - Antonio Ferrante (AUS)

IL6.01.01 - Stopping T cells in their tracks, vitamin D suppresses naïve CD8 T cell proliferation
Margherita T. Cantorna, J. Chen, D. Bruce
University Park, United States

IL6.01.02 - Vitamin D regulates complement receptor immunoglobulin (CRIg) expression in human macrophages
Antonio Ferrante
Adelaide, Australia

W6.01.01 - Immunomodulatory role of vitamin D in allergic airway inflammation and airway hyperresponsiveness in bronchial asthma
Devendra K. Agrawal, T. Agrawal, G.K. Gupta
Omaha, USA

W6.01.02 - Effects of w3 fatty acid in experimental model of mucositis induced by 5-FU
Belo Horizonte, Brazil

W6.01.03 - The Agaricus blazed-based mushroom extract, Andosan™, has immuno-suppressive and anti-inflammatory effects when used as supplement to multiple myeloma patients receiving high-dose chemotherapy and autologous bone marrow transplantation
Geir Hetland, J. Tangen, A. Tierens, G. Kvalheim, L. Osnes, G. Tjønnfjord
Oslo, Norway

W6.01.04 - Hepatocyte nuclear factor 4 alpha regulates immune cell activation and autoimmunity
Marco Di Dario, E. Colombo, C. Farina
Milan, Italy

W6.01.05 - Mast cell protease expression is reduced in vitro and in vivo in response to cinnamon treatment
Yvonne Hagenlocher, I. Bergheim, S.C. Bischoff, A. Lorentz
Stuttgart, Germany

W6.01.06 - Immunomodulatory effects and anti-tumor activities of conjugated linolenic acids on the murine macrophage-like leukemia cells
KN Leung, W. Liu
Hong Kong, China

W6.02 - Metabolism and immunity interfaces
Chairs: Emilio Jirillo (ITA) - Giuseppe Matarese (ITA)

IL6.02.01 - Polyphenols from red grape and modulation of the immune Response
Emilio Jirillo, Y. Kumazawa, V. Pugliese, S. Fontana, G. Marzulli, T. Magrone
Bari, Italy
IL6.02.02 - Intracellular metabolic pathways control immune tolerance
Giuseppe Matarese
Baronissi, Salerno, Italy

W6.02.01 - Insulin impairs regulatory T cell function: implications for obesity
Jonathan M. Han, S.J. Patterson, J.A. Ehses, M.K. Levings
Vancouver, Canada

W6.02.02 - Investigating the anti-inflammatory effects of high density lipoprotein in macrophages
Dominic De Nardo, L. Labzín, H. Kono, R. Seki, S. Schmidt, M. Kneilling, D. Lütjohann, S. Wright, J. Schultze, E. Latz
Bonn, Germany

W6.02.03 - Obesity-associated autoantibody production requires AIM to retain IgM immune complex on follicular dendritic cells
Satoko Arai, S. Honda, A. Shibuya, Q. Li, T. Miyazaki
Tokyo, Japan

W6.02.04 - Novel factors regulating chemerin synthesis and function in fat tissue
Mateusz Kwitniewski, M. Banaś, N. Harasymowicz, J. Marczyńska, K. Kwiecień, B.A. Zabel, J. Cichy
Krakow, Poland

W6.02.05 - Amino acid sensing by mTORC1 is the vital prerequisite for alternative activation of macrophages
Tetsuya Kimura, S. Nada, M. Okada, A. Kumanogoh
Suita, Japan

W6.02.06 - Gene profile of myeloid-derived suppressive cells from the bone marrow of lysosomal acid lipase knock-out mice
Cong Yan, X. Ding, N. Dasgupta, L. Wu, H. Du
Indianapolis, USA

W6.03 - Pathogenesis and immunointervention in diabetes
Chairs: Piero Marchetti (ITA) - Leonard Harrison (AUS)

IL6.03.01 - Soluble CD52 released by activated T cells interacts with Siglec-10 to suppress T cell activation and prevent autoimmune disease
E. Bandala-Sanchez, Y. Zhang, S. Reinwald, J.A. Dromey, B. Lee, J. Qian, R.M. Boehmer, Leonard C. Harrison
Parkville, Australia

W6.03.01 - Detection of Chromogranin A-reactive CD4+ T cells in type 1 diabetes in the nonobese diabetic (NOD) mouse
Niyun Jin, F. Crawford, J. White, M. Philippa, J. Kappler
Denver, USA

W6.03.02 - IL-21 is a critical regulator of chronic/persistent but not acute/accelerated auto-immune and allo-immune responses
Mithun Khattar, P. Schroder, C. Baum, R. Deng, W. Chen, S. Stepkowski
Toledo, USA

W6.03.03 - Postnatal events in intestinal gene expression and splenic cell composition is altered in NOD mice
Dina S.M. Damlund, S. Metzdorff, M.B. Kristensen, A.K. Hansen, K. Buschard, H. Frøkiaer
Frederiksberg, Denmark

W6.03.04 - Antigen-specific protection against highly aggressive cytotoxic T cells in diabetes by intradermal injection of heme-oxygenase-1 inducer
Thomas Simon, J. Pogu, S. Pogu, J. Bach, S. Remy, E. Piaggio, I. Anegon, P. Blancou
Nantes, France

W6.03.05 - Inhibiting Th17 cells and reducing insulitis in diabetic NOD mice by GW9508, a GPR40 and
W6.04 - Treatment of rheumatoid arthritis and other inflammatory joint diseases

Chairs: Marco Matucci Cerinic (ITA) - Johannes Roth (DEU)

W6.04.01 - Human cathelicidin-derived peptide IG-19 regulates cytokine IL-32-induced inflammation in human blood mononuclear cells, and provides protection in a murine model of arthritis

Ka-Yee (Grace) Choi, L.N.Y. Chow, M. Bossert, T. Klonisch, J. Uzonna, N. Mookherjee

Winnipeg, Canada

W6.04.02 - The pro-inflammatory activities of IL-6 are mediated by the soluble Interleukin-6 receptor via trans-signalling

Stefan Rose-John

Kiel, Germany

W6.04.03 - Survivin as a target for therapeutic RNA interference in experimental arthritis


Gothenburg, Sweden

W6.04.04 - Critical role of all-trans retinoic acid in stabilizing human nTregs under inflammatory conditions

Songguo Zheng, Z. Liu

Shanghai, China

W6.04.05 - Blockade of CCR6 and CCL20 interaction ameliorates arthritis and contact hypersensitivity reaction in mice

Kenzo Muramoto, A. Bender, T. Horizoe, M. Nishimura, T. Imai

Chuo-ku, Japan

W6.04.06 - The effect of CXCL10 blockade in C protein-induced myositis


Seoul, Republic of Korea

W6.05 - Prevention and intervention in allergy

Chairs: Sergio Bonini (ITA) - Revaz Sepiashvili (RUS)

IL6.05.01 - Allergy in the CIS-countries

Revaz Sepiashvili, T. Slavyanskaya

Moscow, Russian Federation

W6.05.02 - Antibodies specific for the junction of CH4 domain and C-domainX in membrane-bound IgE are potentially useful for down-regulating mIgE-B lymphocytes


Taipei, Taiwan

W6.05.03 - Mast cell-derived prostaglandin D2 suppresses intestinal mastocytosis in food allergy.

Tatsuro Nakamura, S. Matsumoto, K. Arltake, M. Hori, H. Ozaki, Y. Urade, T. Murata

Tokyo, Japan

W6.05.04 - Robust long-term tolerance in IgE-mediated allergy through transfer of allergen-expressing bone marrow cells

Vienna, Austria

W6.05.05 - Sublingual immunotherapy induces regulatory T cells in cervical lymph node of murine allergic rhinitis model
Izumo, Japan

W6.05.06 - Effective suppression of grass-pollen induced asthma manifestations by subcutaneous and sublingual immunotherapy in a mouse model
Laura Hesse, M. Nawijn, R. Gras, H. Oude Elberink, J. Brimnes, A. van Oosterhout
Groningen, Netherlands

W6.06 - Cancer immunotherapy and antitumor vaccines
Chairs: Shimon Slavin (ISR) – Giorgio Parmiani (ITA)

IL6.06.01 - Cell therapy of cancer with alloreactive intentionally mismatched IL-2 activated donor lymphocytes targeting anti-cancer killer NK & T cells using monoclonal and bispecific antibodies
Shimon Slavin, C. Brodie
Tel Aviv, Israel

W6.06.01 - Examination of cancer testis antibodies and Th1/Th2 cytokines as prognosis markers in glioma patients treated with Delta-24-RGD oncolytic adenovirus
Juan Fueyo, F. Lang, C. Gomez-Manzano, A. Yung, R. Sawaya, C. Conrad
Houston, USA

W6.06.02 - Synergistic 4-1BB and CD28 costimulation enables CD19-targeted T cells to eliminate aggressive leukemia, in an IRF7-dependent manner
Maud Condomines, Z. Zhao, C. Kloss, M. Sadelain
New York, USA

W6.06.03 - Development of a tumor stem cell specific T-cell engaging antibody for the treatment of glioblastoma multiforme
Freiburg, Germany

W6.06.04 - Regeneration of human melanoma antigen-specific T cells from iPSCs derived from mature CD8+ T cells
Yokohama, Japan

W6.06.05 - Isolation of antigen-specific TCR genes and analysis of disease-associated TCR repertoires by TCR gene capture
Carsten Linnemann, B. Heemskerk, P. Kvistborg, R.J.C. Kluin, D.A. Bolotin, R.M. Kerkhoven, M. Nieuwland, D.M. Chudakov, G.M. Bendel, T.N.M. Schumacher
Amsterdam, Netherlands

W6.06.06 - Glycoengineered defucosylated anti-CD20 antibodies activate neutrophils-mediated phagocytosis more efficiently than rituximab
Josée Golay, F. Da Roit, L. Bologna, C. Ferrara, J.H. Leusen, A. Rambaldi, C. Klein, M. Introna
Bergamo, Italy

W6.06.07 - FOXO3 regulates tumor-associated dendritic cell tolerogenicity by binding and sequestering NF-κB
Stephanie K. Watkins, A.A. Hurwitz
Maywood, USA

W6.06.08 - Host immunity contributes to the anti-melanoma activity of BRAF inhibitors
Melbourne, Australia

W6.06.09 - Exploiting the good and blocking the bad: new strategies to convert the tumor into an in
situ personalized vaccine
C. Vanpouille-Box, K.A. Pilones, M.L. Dustin, M.H. Barcellos-Hoff, S.C. Formenti, Sandra Demaria
New York, USA

W6.06.10 - A new class of INKT cell agonist to harness tumor immunity
Bethesda, USA

W6.06.11 - Naive-derived memory stem T cells: a novel promising platform for cancer immune-gene therapy
Nicoletta Cieri, B. Camisa, F. Cocchiarella, M. Forcato, G. Oliveira, E. Provasi, A. Bondanza, F. Mavilio, A. Mondino, C. Bonini
Milan, Italy

W6.06.12 - Conditioning tumor microenvironments for effective entry and function of effector T cells
Pittsburgh, USA

W6.06.13 - A bi-institutional pilot study of peptide-based vaccines in combination with poly ICLC in patients with WHO grade 2 low-grade glioma
Pittsburgh, USA

W6.06.14 - Entire requirement of endogenous type I interferon for the efficacious cancer treatment with viral vector-encoded IL-12
Pamplona, Spain

W6.07 - Cell-based therapy
Chairs: Giovanna Lombardi (GBR) - Hideki Ueno (USA)

IL6.07.01 - Cell therapy to induce tolerance: which cell type should we use?
Giovanna Lombardi, R. Lechler
London, United Kingdom

W6.07.01 - Human CD8+ regulatory T cells inhibit GVHD and preserve general immunity in humanized mice
Hong Kong, Hong Kong

W6.07.02 - Therapeutic efficacy of human mesenchymal stromal cells in a humanised mouse model of acute GVHD
Karen English, L. Tobin, M. Healy, B.P. Mahon
Co Kildare, Ireland

W6.07.03 - Induction of donor-specific tolerance in organ transplantation using in vitro-generated immunosuppressive myeloid blood cells
Christian Kleist, F. Sandra-Petrescu, L. Jiga, L. Dittmar, E. Mohr, J. Greil, G. Opelz, P. Terness
Heidelberg, Germany

W6.07.04 - Gene therapy mediated by lentiviral vector transduced CD34+ cells for the treatment of Wiskott-Aldrich syndrome
Samantha Scaramuzza, F. Ferrua, M.C. Castiello, S. Giannelli, L. Biasco, F. Ciceri, M.G. Roncarolo, A. Villa, L. Naldini, A. Aiuti
Milan, Italy

W6.07.05 - Multifunctional CD26hi Th17 cells eradicate large human tumors
Michelle H. Nelson, L. Huff, S. Kundimi, M. Goodyear, S.R. Bailey, C.M. Paulos
Charleston, USA
W6.07.06 - Identification of an alternative specificity for engineered T cells expressing an enhanced affinity MAGE-A3 TCR
Abingdon, United Kingdom

W6.08 - Stem cells in immunity
Chairs: Luca Gattinoni (USA) - Francesco Frassoni (ITA)

IL6.08.01 - Harnessing stem-cell like memory T cells for adoptive cell transfer therapy of cancer
Luca Gattinoni
Bethesda, United States

W6.08.01 - Potential roles for adipose-derived mesenchymal stem cells in the regulation of the mucosal immune system in aging
Birmingham, USA

W6.08.02 - Clinical effects of intraperitoneal mesenchymal stem cells and mesenchmal stem cells-derived neural progenitor cells in a chronic experimental model of multiple sclerosis
Fateme Nasri, T. Kalantari, M.S. Mohtasebi, F. Taki, E. Kamali Sarvestani
Shiraz, Islamic Republic of Iran

W6.08.03 - IFN-γ impairs the self-renewal of hematopoietic stem cells during viral infection
A.M. de Bruin, B. Hooibrink, Martijn A. Nolte
Amsterdam, Netherlands

W6.08.04 - Mouse compact bone derived mesenchymal stem cells supress airway inflammation in both chronic and acute murine asthma model
I. Ogulur, G. Gurhan, A. Aksoy, G. Duruksu, D. Filinte, I. Barlan, E. Karaöz, Tunç Akköç
Istanbul, Turkey

W6.08.05 - Allogenicity of human cardiac stem/progenitor cells orchestrated by programmed death ligand 1 (PD-L1)
L. Lauden, W. Boukouaci, L.R. Borlado, I.P. López, P. Sepúlveda, R. Tamouza, D. Charron, Reem Al-Daccak
Paris, France

W6.08.06 - The acquisition of immunomodulating properties by mouse mesenchymal stem cells in presence of IFN-γ is associated with a reduced expression of Nanog and alteration of their differentiation potential
Tiziana Vigo, C. Procaccini, G. Matarrese, S. Baranzini, N. Kerlero de Rosbo, A. Uccelli
Genoa, Italy

W6.09 - Vaccine adjuvants
Chairs: Paola Parronchi (ITA) - Ali Harandi (SWE)

IL6.09.01 - Vaccine adjuvants for mucosal immunity: recent progress and future challenges
Ali Harandi
Gothenburg, Sweden

IL6.09.02 - Perspectives in vaccine adjuvants
Paola Parronchi, L. Fili, E. Cardilicchia
Firenze, Italy

W6.09.01 - Novel adjuvants for DNA vaccines
Adelaide, Australia
W6.09.02 - Using immunopotentiating capacity of flagellin for sublingual immunotherapy  
Montevideo, Uruguay

W6.09.03 - A Dectin-1-assisted APC-targeting TLR9-agonist as an adjuvant  
Kouji Kobiyama, K.J. Ishii  
Ibaraki, Japan

W6.09.04 - Adjuvants are the future of vaccine formulation. The case of Finlay adjuvants  
Oliver Pérez, M. Lastre, B. Romeu, O. Cabrera, M. Cuello, E. González, A. Batista-Duharte, A. Labrada, W. Ramírez, R. Nicado  
Havana, Cuba

W6.09.05 - Antigen trafficking within lymphoid organs and humoral immune response: The effect of MF59 adjuvant  
Siena, Italy

W6.09.06 - SBA-15 nanostructured silica adjuvant enhances immune responsiveness and modulates sensitivity to bacterial toxins  
Karina Scaramuzzi, G.D. Tanaka, M. Tino De Franco, A.G. Trezena, O.A. Sant’Anna  
Sao Paulo, Brazil

W6.10 - Mucosal vaccines

Chairs: Mi-Na Kweon (KOR) - Charani Ranasinghe (AUS)

IL6.10.01 - Acute epithelial death plays a role in intrinsic defense against enteric bacteria  
Mi-Na Kweon;  
Seoul, Republic of Korea

IL6.10.02 - Novel HIV-1 IL-13Rα2 adjuvanted vaccines: High avidity mucosal and systemic CD8 T cells with greater protective immunity  
Charani Ranasinghe, S. Trivedi, D.K. Wijesundara, R.J. Jackson  
Canberra, Australia

W6.10.01 - Microbe-dependent proliferating IgA-producing plasma cells mediate early-phase robust intestinal IgA responses in mice  
Jun Kunisawa, E. Hashimoto, I. Ishikawa, Y. Suzuki, R. Sumiya, S. Shikata, H. Kiyono  
Tokyo, Japan

W6.10.02 - Development a novel mucosal vaccine targeted to GP2 on Peyer’s patch M cells  
Hideaki Shima, T. Watanabe, O. Ohara, H. Ohno  
Yokohama, Japan

W6.10.03 - Molecular uniformed rice-based oral cholera toxin B subunit vaccine without plant-associated sugar modification induces toxin-specific neutralizing immunity in mice and macaques  
Yoshikazu Yuki, M. Mojima, S. Kurokawa, T. Hiroiwa, Y. Takahashi, Y. Katakai, M. Kuroda, N. Takeyama, K. Kashima, H. Kiyono  
Tokyo, Japan

W6.10.04 - Advantage of a new intra-cheek immunization route for therapeutic vaccines of human papillomavirus-associated head and neck cancers  
Rodney Macedo, G. Lescaille, V. Mateo, C. Baillou, B. Bellier, F.M. Lemoine  
Paris, France

W6.10.05 - Cross-strain protective immunity elicited by a live attenuated nasal spray influenza vaccine after prime-boost immunization  
J. Li, M.T. Arévalo, Y. Chen, Mingtao Zeng  
El Paso, USA
W6.10.06 - Safety evaluation of Neuraminidase as a targeting substance of allergen-loaded microparticles for oral food allergy treatment
Vienna, Austria

W6.12 - Organ transplantation
Chairs: Birgit Sawitzki (DEU) - Chiara Romagnani (ITA)

W6.12.01 - Monitoring indirect allore cognition in renal transplant recipients
Eytan Breman, P.P. van Miert, M.H. Heemskerk, D. Roelen, F.H. Claas, C. van Kooten
Leiden, Netherlands

W6.12.02 - In vitro and in vivo characterization of IL-9 producing alloreactive T cells
Katarina Stanko, J. Schumann, U. Schliesser, C. Appelt, K. Vogt, B. Sawitzki
Berlin, Germany

W6.12.03 - Experimental chronic lung allograft damage
S. Atanasova, A. Evers, D. Jonigk, K. Petri, A. Zakrzewicz, M. Obert, J. Schmitz, M. Hirschburger, W. Padberg, Veronika Grau
Giessen, Germany

W6.12.04 - Soluble FGL2 induces tubular epithelial cells apoptosis in renal allograft rejection
Zitong Zhao, C. Yang, L. Wang, L. Li, T. Zhao, L. Hu, R. Rong, M. Xu, T. Zhu
Shanghai, China

W6.12.05 - Association of splenic CD11c+ B-cell population with long-term graft tolerance in mouse cardiac transplantation model
Kunming, China

W6.12.06 - Tolerance induction to immunogenic grafts via antigen-specific Tregs without the need for chronic immunosuppression
Matthias Hardtke-Wolenski, N. Sellrecht, N. Mpofu, R. Taubert, F. Noyan, M.P. Manns, E. Jaeckel
Hannover, Germany

W6.13 - Bone marrow transplantation and graft versus host disease
Chairs: Franco Locatelli (ITA) - Mauricette Michallet (FRA)

W6.13.01 - PI3K-independent signal contributes to ICOS-mediated T-cell costimulation in acute GVHD in mice
Jun Li, X. Yu
Changsha, China

W6.13.02 - CD11b+ NK cells are the main effector NK cell subpopulation that impairs GVHD
K. Meinhardt, I. Kroeger, R. Bauer, D. Dudziak, M. Rehli, A. Mackensen, Evelyn Ullrich
Frankfurt, Germany

W6.13.03 - In vitro-generated myeloid-derived suppressor cells inhibit GVHD while preserving the graft-versus-tumor effect
Joanna J. Messmann, M.B. Lutz, F. Leithäuser, K.M. Debatin, G. Strauss
Ulm, Germany

W6.13.04 - Fetal membrane cells for treatment of steroid-refractory acute GVHD
Stockholm, Sweden

W6.13.05 - CMV reactivation and kinetics of NK cell reconstitution in 439 patients after allogeneic hematopoietic stem cell transplantation
Paris, France

W6.13.06 - CD8⁺ T-cells expressing the homing receptors CCR7 and CD62L mediate the pathogenesis of GVHD
A. Kreutzman, Itxaco Portero, M. Royg, V. Gómez Garcia Soria, A. Ramirez, C. Muñoz Calleja
Madrid, Spain

W6.14 - Immunosuppressive and tolerogenic treatments
Chairs: Carlo Agostini (ITA) - Angus W. Thomson (USA)
W6.14.01 - Immunological outcomes during 1 year of treatment with the anti-IL-12/23 p40 monoclonal antibody ustekinumab for psoriasis
Lyon, France
Magali Cremel, N. Guerin, W. Berlier, F. Horand, Y. Godfrin
Lyon, France
W6.14.03 - Therapeutic role of the novel negative checkpoint regulator VISTA in murine autoimmune disease models
Sabrina Ceeraz, I. Le Mercier, P. Sergent, A. Schned, C. Burns, R. Noelle
Lebanon, USA
W6.14.04 - IL-7 receptor blockade by monoclonal antibody to IL-7Rɑ induces islet allograft tolerance and long-term skin allograft survival through inhibition of T cell reconstitution
Hoa L. Mai, F. Boeffard, J. Lepourry, R. Danger, B. Martinet, B. Vanhove, S. Brouard, J.P. Soullilou
Nantes, France
W6.14.05 - Control of autoimmunity by Treg-inducing liver sinusoidal endothelial cells
Hamburg, Germany
W6.14.06 - Induction of immunosuppression by mesenchymal stem cells
Yufang Shi
Shanghai, China

W6.15 - Immunopharmacology
Chairs: Giselle Penton Rol (CUB) - Diana Boraschi (ITA)
IL6.15.01 - Modelling human inflammation in vitro with human blood monocytes
Diana Boraschi, P. Giungato, Y. Li, P. Italiani
Pisa, Italy
IL6.15.02 - Molecular mechanisms associated to a new combined therapy for multiple sclerosis
Havana, Cuba
W6.15.01 - L-GILZ forms a complex with p53 and mdm2 and suppresses tumor growth through p53 activation
Emira M. Ayroldi, M. Petrillo, A. Bastianelli, S. Ronchetti, C. Marchetti, G. Nocentini, L. Cannarile, C. Riccardi
Perugia, Italy
W6.15.02 - Bringing together the potential of immune cells and the power of new drugs to target cancers by nanoparticles
Cinzia Garofalo, L. Izzo, R. Strong, V. Groh, R. Sottilio, R. Tallerico, G. Pappalardo, E. Carbone
Catanzaro, Italy
W6.15.03 - Sub-visible particles in protein therapeutics - are they responsible for the induction of
unwanted immune responses?

**Christian Lubich**, M. Malisauskas, T. Prenninger, C. Lenk, E. Hopfner, F. Scheiflinger, B.M. Reipert
Vienna, Austria

W6.15.04 - Assessing immune toxicity of engineered nanoparticles: modulation of inflammation in a novel in vitro model based on human primary monocytes

**Yang Li**, P. Italiani, E. Caslas, V.F. Puntes, D. Boraschi
Pisa, Italy

W6.15.05 - Protein kinase C\(\gamma\) regulates inducible nitric oxide synthase expression through IRF1

Tampere, Finland

W6.15.06 - Molecular mechanisms associated to a new combined therapy for multiple sclerosis

Havana, Cuba

W6.16 - Biomarkers and clinical profiling of human immune responses

Chairs: Armando Gabrielli (ITA) – Carlo Selmi (ITA)

W6.16.01 - An autoantibody profile for SLE diagnosis using the ImmunArray iCHIP\textsuperscript{TM}

Rehovot, Israel

W6.16.02 - Identification of potential biomarkers and therapeutic targets for multiple sclerosis by M2 proteomics

**Itay Raphael**, W.E. Haskins, T.G. Forsthuber
San Antonio, USA

W6.16.03 - The alarmins S100A8 and S100A9 as promising targets for non-invasive molecular imaging of phagocyte activation during inflammation

**Tom Völler**, M. Eisenblätter, J. Roth, T. Vogl
Münster, Germany

W6.16.04 - Fractalkine ligand-receptor axis dictates prognostic outcome in human colorectal cancer

Milan, Italy

W6.16.05 - Tumor-specific adaptive immune responses to primary and metastatic ovarian tumors

C. L. Desmarais, R. Emerson, A. Sherwood, C. Sanders, M. Tewari, J. Guenthoer, C. Carlson, C. Drescher, Harlan Robins
Seattle, USA

W6.16.06 - Unique TCR signature of a novel cross-reactive CMV-specific T cell receptor: Potential clinical implications

Melbourne, Australia

W7.01 - Imaging of the immune system

Chairs: Matteo Iannacone (ITA) - Jens Stein (CHE)

IL7.01.01 - In vivo imaging of intrahepatic effector CD8 T cell dynamics

**Matteo Iannacone**
Milan, Italy

IL7.01.02 - Intracellular control of central versus effector memory T cell migration and activation

**Jens V. Stein**
Bern, Switzerland

W7.01.01 - Lateral distribution of the T cell receptor and membrane lipid detected by high resolution
secondary ion mass spectrometry
Feng Wang, M.M. Lozano, B.F. Lillemoier, S.G. Boxer, M.M. Davis
Stanford, USA

W7.01.02 - Role of colonic lymphoid patch dendritic cells in patrolling the colonic lumen, transporting antigen, and imprinting homing of T cells to the colon
Jay A. Berzofsky, A. Dzutsev, A. Hogg, L. Koo, H. Yu, R. Goldszmid, J. Kabat, Y. Sui, O. Schwartz, G. Trinchieri
Bethesda, USA

W7.01.03 - Comprehensive confocal imaging and 3D computer analysis of blood and lymphatic vascular channels across entire lymph nodes
Auckland, New Zealand

W7.01.04 - Skin patrol by tissue-resident CD8+ T cells
Silvia Ariotti, J.B. Beltman, G. Chodaczek, M. Hoekstra, A.E. van Beek, R. Gomez-Eerland, L. Ritsma, J. van Rheeinen, A. Maree, T. Zal
Amsterdam, Netherlands

W7.01.05 - Single cell analysis of molecular networks involved in T cell activation and signalling.
Ruth Brignall, J. Bagnall, L. Schmidt, D. Spiller, D.A. Jackson, M. Travis, M.R.H. White, P. Paszek Manchester, United Kingdom

W7.01.06 - Dynamic expression of co-stimulatory and co-inhibitory receptors regulates termination of T cell-DC interaction during CD8 T cell activation
Boston, USA

W7.02 - Systems and theoretical immunology
Chairs: Kendall A. Smith (USA) – Antonio Coutinho (PRT)

W7.02.01 - Methodological applications of host-pathogen data profiles conserved in evolution
Albuquerque, USA

W7.02.02 - Higher expression of genes related to B cell activation in female spleen cells
R. Godínez-Aguilar, E. Aguirre-von-Webesser, V. Bermúdez, E. Lamoyi, J. Berumen, José Moreno
Cuernavaca, Mexico

W7.02.03 - Functional proteomic interrogation of immune cell crosstalk and the effects of cytokine-targeted inhibitors using Single Cell Network Profiling
D. Hotson, A. Conroy, A. Cesano, Rachael Hawtin
San Francisco, USA

W7.02.04 - Comparison of functional immune signalling profiles in peripheral blood mononuclear cells from rheumatoid arthritis patients versus healthy donors using Single Cell Network Profiling
San Francisco, USA

W7.02.05 - The role of microRNAs in regulatory T cell function
Adelaide, Australia

W7.02.06 - A bioinformatics pipeline to uncover regulatory modules and their condition-specific regulators in human monocyte-to-macrophages differentiation and polarization
Emilia M.C. Mazza, P. Italiani, S. Valsoni, I. Cifola, D. Boraschi, C. Battaglia, S. Bicciato
Modena, Italy

W7.03 - Structural biology in immunology
Chairs: Mette M. Rosenkilde (DEN) - Stephanie Gras (AUS)

IL7.03.01 - Structural basis of viral escape in Influenza
Clayton, Australia

W7.03.01 - Crystal structure of adenovirus E3-19K protein bound to HLA-A2 reveals mechanism for immunomodulation
**L. Li**, Y. Muzahim, **Marlene Bouvier**
Chicago, USA

W7.03.02 - Structural insight into HLA DQ8 restricted TCR selection in celiac disease
Clayton, Australia

W7.03.03 - Divergent T cell recognition of a lengthy epitope bound to MHC-I molecule
**Yu-Chih Liu**
Clayton, Australia

W7.03.04 - The constant region affects antigen binding of antibodies to DNA by altering secondary structure
**Y. Xia**, A. Janda, E. Eryilmaz, A. Casadevall, **Chaim Putterman**
Bronx, USA

W7.03.05 - Structural insight on the recognition of surface-bound opsonins by the integrin αI-domain of complement receptor 3
**Goran Bajic**, L. Yatime, T. Vorup-Jensen, G.R. Andersen
Aarhus, Denmark

W7.03.06 - Evidence for a direct functional interaction between HLA-DM and human immunoglobulin
Stanford, United States

W7.05 - Evolution of the immune system and comparative immunology
Chairs: Michael JH Ratcliffe (CAN) - Loriano Ballarin (ITA)

IL7.05.01 - Antigen Mediated Positive and Negative Selection of Developing Chicken B Cells
**Michael J.H. Ratcliffe**, D. Davani
Toronto, Canada

IL7.05.02 - Phenoloxidases and cytotoxicity in ascidians: an overview
**Loriano Ballarin**, N. Franchi, F. Schiavon, S.C.E. Tosatto
Padova, Italy

W7.05.01 - Generation of B lymphocytes and immunoglobulin diversity in Bos taurus
**J. Liljavirta**, A. Ekman, **Mikael Niku**, T. Pessa-Morikawa, A. Ivannainen
Helsinki, Finland

W7.05.02 - Atlantic cod displays an unusual TLR repertoire: A Gadidae-specific feature?
**Monica H. Solbakken**, M. Malmstroem, O. Toerresen, K.S. Jakobsen, S. Jenoft
Oslo, Norway

W7.05.03 - Evolution of antigen recognition by Vγ9Vδ2 T cells
**Mohindar Murugesh Karunakaran**, L. Starick, L. Walter, T. Goebel, T. Herrmann
Wuerzburg, Germany

W7.05.04 - Drosophila Helical factor (Hf) and helical cytokine evolution: From in silico approaches to functional evidence
**Davide Malagoli**
Modena, Italy

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W7.05.05 - Phenoloxidases and cytotoxicity in ascidians: An overview
Ballarin Loriano, N. Franchi, F. Schiavon, S.C.E. Tosatto
Padua, Italy

W7.05.06 - The secondary structure of the pre-mRNA encoding the antarctic fish Igµ chain drives its atypical splicing pattern
Stefano Giacomelli, S. Varriale, U. Oreste, M. Coscia
Naples, Italy

W7.07 - Veterinary immunology
Chairs: Massimo Amadori (ITA) - Wayne Hein (AUS)

IL7.07.01 - In vitro evaluation of the anti-inflammatory control actions of interferon-alpha in swine
E. Razzuoli, R. Villa, Massimo Amadori
Brescia, Italy

W7.07.01 - A novel multi-stage subunit vaccine against paratuberculosis induces significant immunity and reduces bacterial burden in tissues
Aneesh Thakur, C. Aagaard, U. Riber, K. Skovgaard, P. Andersen, G. Jungersen
Copenhagen, Denmark

W7.07.02 - Bovine viral diarrhea virus actively replicate in bovine monocyte-derived dendritic cells and use them as viral reservoirs
Alejandra V. Capozzo, O.L. Franco-Mahecha, W. Czepluch, D.A. Malacari, N. Cardoso, P.R. Grigera
Buenos Aires, Argentina

W7.07.03 - Novel peptide-MHC tetramers to characterize the specificity of the CD8+ T cell response against Theileria parva
Nicholas Svitek, R. Saya, L. Steinaa, E. Awino, A.M. Hansen, M. Nielsen, S. Buus, V. Nene
Nairobi, Kenya

W7.07.04 - Dendritic cell tracking in pigs
Elisa Crisci, L. Fraile, R. Novellas, Y. Espada, R. Cabezon, J. Martinez, D. Benitez, M. Montoya
Bellaterra, Spain

W7.07.05 - Development an ELISA method to diagnose infected poultries
T. Emami, Rasool Madani, F. Golchinifar
Alborz, Islamic Republic of Iran

W7.07.06 - A role of myeloid precursor cells (MDSCs), p-STAT 3 and lymphocyte Treg in development of immunosuppression in dogs with skin and mammary cancer
Joanna M. Mucha, T. Motyl, K. Majchrzak, M. Król
Warsaw, Poland
4.4 The poster sessions

The Congress collected abstracts from delegates through a web-based platform managed by Vienna Medical Academy. A total of 5109 abstracts have been collected (abstract texts are provided in the enclosed material).

During the submission, authors were requested to indicate three appropriate workshop tracks. When the abstract collection was completed, the Workshops and abstracts Committee evaluated the abstracts and those approved were sent to the two chairs of the corresponding workshop, selected among the three indicated by the author. Workshop chairpersons scored the abstracts and selected the most scientifically relevant for oral presentation (6 for most workshops, 13 for workshops which received a higher number of abstracts and were thus provided an extended timeslot in the program). A total of 5 daily poster sessions have been organized, with an average of 800 abstracts on display each day. All abstracts were provided a designed panel in the poster area where the poster was on show for the entire day. Abstracts were assigned the poster session of the day when the corresponding workshop was scheduled. The presenting author was requested to attend the poster during the poster session (1.20 to 3.00 pm).

The list of authors presenting abstracts selected for oral presentation was used by the Award and Travel Grants Committee for selection of travel grants awardees.
4.5 Courses

To provide students with the appropriate didactic background to participate to the Congress, two courses have been organized, one on basic and one on clinical immunology, by Abul Abbas and Reinhold Schmidt, respectively. Courses have been particularly appreciated by students and the organization has repeatedly increased the number of participants.

Basic immunology course

August 22nd, 9.00-17.00
Chair: Abul Abbas (USA)

Abul Abbas (USA) - Introduction to the immune system
Andrew Lichtman (USA) - Innate immunity
Abul Abbas (USA) - Antigen presentation, T cell activation and costimulation
Abul Abbas (USA) - T cell subsets, cytokines
Andrew Lichtman (USA) - CD8, NK and NK T cells
Andrew Lichtman (USA) - Cells and antibodies
Abul Abbas (USA) - T cell regulation and tolerance
Abul Abbas (USA) - Autoimmunity and immunological diseases

Participants: 370 students (fully booked)

Clinical immunology course

From August 22nd to 27th, 8.00-8.45
Chair: Reinhold E. Schmidt (GER)

Cezmi A. Akdis (CHE) - Allergies
Bodo Grimbacher (DEU) - Primary immunodeficiencies
Roland Martin (CHE) - Inflammatory diseases of the CNS
Herve Fridman (FRA) - Immune surveillance of tumors
Kathryn Wood (GBR) - Transplant tolerance

Participants: 200 students (fully booked)
4.6 Awards

Else Kröner-Fresenius Award Lecture and Ceremony

The Else Kröner-Fresenius Immunology Award recognizes seminal discoveries in medical immunology and facilitates future research of the award winner. The award commemorates the 25th anniversary of the death of Else Kröner, who established the Else Kröner-Fresenius-Foundation in 1983, dedicating it to the support of medical research and humanitarian projects.
The award is endowed with 4 Mio Euro.
An international jury of expert Immunologists, headed by the IUJS president Prof. Stefan Kaufmann, has selected Ruslan Medzhitov from HHMI and Yale University, as the winner of the 2013 award.

Medzhitov’s work contributed greatly to understand the interaction between the innate immune system, providing an immediate defense against infections, with the adaptive immune system, which develops highly specific responses to infectious agents. He demonstrated that innate immune recognition is essential for stimulation of adaptive immunity, and elucidated the importance of recognition of symbiotic bacteria for maintenance of physiological homeostasis. In the 1997, Medzhitov together with Charles Janeway made the groundbreaking discovery that a human toll-like receptor (TLR), a component of the innate system, provides the adaptive system with the necessary information to create custom-made B and T cells that target specific bacterial or viral invaders, through recognition of basic molecular patterns shared by microbial pathogens.
The Else Kröner Fresenius Award equally considers achievements of the past and visions for the future. Medzhitov, indeed, intends to identify means to stimulate the most appropriate immune response for a given infection. This will have direct consequences for the rational design of tailor-made vaccines against infectious, inflammatory, and malignant diseases, and it will lead to novel anti-inflammatory medicines.
Novartis Award Lectures and Ceremony

The Novartis Prizes for Basic and Clinical Immunology are awarded for outstanding achievements in the understanding of immunological processes in health and disease and major discoveries resulting in novel treatments for immunological diseases such as autoimmune and inflammatory diseases, transplantation, infectious diseases, immunotherapy of cancer and allergic and dermatological diseases.

The Prizes for Basic and Clinical Immunology are each endowed with SFr 100,000.

The International Jury was chaired by Hidde Ploegh and included Charles Dinarello, Tadamitsu Kishimoto, Bernard Malissen, Diane Mathis, Anne O’Garra, Jan de Vries.

The Novartis Prize for Basic Immunology 2013 was shared by Tim R. Mosmann, Ph.D., Director, David H Smith Center for Vaccine Biology and Immunology, University of Rochester Medical Center and Robert L. Coffman, Ph.D., Vice President and Chief Scientific Officer at Dynavax.

While working together at DNAX Research Institute in Palo Alto, Tim R. Mosmann, and David H Smith identified the functions of the two paradigmatic T helper subsets: the Th1 cells with a central role in cellular immune response against viral and intracellular pathogens and Th2 cells, critical for allergic reactions. They have also demonstrated that abnormal function of Th1 and Th2 subsets can be observed in several human diseases, including autoimmunity and cancer.

The Novartis Prize for Clinical Immunology 2013 was awarded to James Allison, Ph.D., Chair of The University of Texas MD Anderson Cancer Center, Department of Immunology, for research that is thwarting cancer's ability to evade attack by the immune system. In the 1990s, James Allison showed in mice that CTLA4 is a cell surface molecule expressed by T cells that interferes with T cell activation. After the development of an anti-CTL4 antibody with potent inhibitory activity of tumor growth in mice, his discovery have provided the basis for the successful treatment for advanced-stage melanoma in humans by the anti-CTLA4 antibody Ipilimumab.
Awards sponsored by scientific journals

The Award and Travel Grants Committee has persistently contacted the Editors of highly impacted immunological and multidisciplinary journals to inquire about their interest in sponsoring one or more prize(s) to the best abstract submitted by a young immunologist selected for oral presentations. Most of them have enthusiastically embraced the proposal by the ICI2013 Committee. With the exception of The Journal of Immunology Young Investigator Awards, all awardees have been then selected by the ICI2013 Committee and, in turn approved by the Journal Editors, among all the abstracts selected for oral presentations by the chairmen of each Workshop. The Awards Ceremony has been held on August 24th, 2013.

The Journal of Immunology Young Investigator Award
The American Association of Immunologists provided 4 awards to early-career investigators who were selected for oral presentation in a workshop on the basis of an exceptional abstract and have recently published in The Journal of Immunology. Awardees were reimbursed up to $2,000US for registration and travel expenses.

Awardees:
- Wiebke Hansen (USA)
- Mithun Khattar (USA)
- Tam Quach (USA)
- Yui-Hsi Wang (USA)

Prizes have been awarded by AAI representatives Mary Litzinger, Kaylene Kenyon, and Jenny Woods.

The Nature Immunology Award
Nature Immunology awarded $ 500 for the best poster in the Innate immunity session.

Awardee:
- Hiroyuki Oshiumi (JPN), presenting author of abstract W1.10.02: Hepatitis C virus degrades Riplet ubiquitin ligase to escape host innate immune response.

Prize has been awarded by Dr. Laurie Dempsey (Senior Editor of Nature Immunology).

The Nature Reviews in Immunology Award
Nature Reviews in Immunology awarded $ 500 for the best poster in the Adaptive immunity session.

Awardee:
- Tam Quach (USA), presenting author of abstract W3.07.02: Characterization of
umbilical cord blood CD34⁺CD43⁺CD19⁺CD38lo/int cells suggests a common progenitor for human B1 and B2 cells.

Prize has been awarded by Dr. Lucy Bird (Chief Editor of Nature Reviews in Immunology).

The Nature Award
Nature provided one free subscription for the best poster in the Immune receptor and signaling session and one free subscription for the best poster in the Immune-mediated disease pathogenesis session.

Awardees:
- Charlton Kim (AUS), presenting author of abstract W2.03.06: Unique epigenetic signatures are associated with the induction, silencing and re-expression of CD8 during T cell development and activation.

Prizes have been awarded by Dr. Ursula Weiss (Senior Editor of Nature).

The Science Award
Science provided free subscription for the best poster in the Translational immunology and immune intervention session.

Awardee:
- Fateme Nasri (IRN), presenting author of abstract W6.08.02: Clinical effects of intraperitoneal mesenchymal stem cells and mesenchmal stem cells-derived neural progenitor cells in a chronic experimental model of multiple sclerosis.

Prize has been awarded by Dr. Luciano Adorini (ICI2013 President).

The Immunity Award
Immunity / Cell Press provided one free subscription for the best poster in the Host-pathogen interactions session.

Awardee:
- Evgeny N. Tsiganov (RUS), presenting author of abstract W4.05.02: Accumulation of Gr-1(dim) myeloid-derived suppressor cells during experimental TB infection in mice.

Prize has been awarded by Dr. Peter Lee (Editor of Immunity).

The Trends in Immunology Award
Trends in Immunology / Cell Press provided one free subscription for the best poster in the Innate Immunity session.

Awardee:
- Katarina Maher (SLO), presenting author of abstract W1.15.01: Cytosolic cathepsin inhibitor Stefin B (cystatin B) regulates NLRP3 inflammasome activation.

Prize has been awarded by Dr. Peter Lee (Editor of Immunity).
5 Delegates

5.1 Delegates by categories

Overall ICI 2013 gathered 5268 participants, of which 53% full delegates and 31% students. A total of 233 exhibitors, 34 press delegates, and 96 accompanying persons were also registered.

About 70% of delegates registered taking advantage of the Early Registration rate, which was kept by the EB particularly low to promote participation to the Congress and to provide a better early-on estimate of the potential attendance. About 25% of participants registered with the Late Registration rate, while on-site registrations covered only 5% of the delegates. Although a convenient rate was reserved to FAIS members to specifically encourage participation of scientists from African countries, the number of FAIS delegates was negligible.

<table>
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<tr>
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5.2 Geographical distribution of delegates

The geographical distribution of delegates showed the expected predominance of European delegates. A relatively high number of delegates from Asia and South America also registered. Conversely, the Congress registered a relatively low number of delegates from North America. Despite intense and dedicated advertisement of the Congress and the allocation of resources to promote participation, the number of delegates from Africa remained low.

To compare number of delegates from different countries attending ICI 2013 and ICI 2010, we first considered the effect of the hosting Society. As expected, though Japan was the most represented National society at ICI 2013 after Italy, we registered over 2000 less Japanese immunologists attending ICI 2013 as compared to ICI 2010. This discrepancy was only partially counterbalanced by a higher representation of Italian Immunologists at ICI 2013 (from 35 to 598), consistent with the lower number of members of the Italian society (about 500) compared to the Japanese society (about 2500). Interestingly, ICI 2013 also registered a significant number of non-European countries, including Brazil and China.
Removing Japan and Italy from the overall calculation (right panel), ICI 2013 registered not only an expected higher number of delegates from Europe (1742 vs. 1171) but also a significant increase of participants from South America (504 vs. 115). A slightly lower number of delegates from Asia and a significant reduction of delegates from North America were also recorded.

ICI 2013 was also characterized by a significantly higher number of nationalities represented at the meeting (97 vs. 76; reported in brackets).
Data on individual Nations are reported in the following table:

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</table>
5.3 Gender distribution of delegates

The EB of ICI 2013 dedicated particular attention to the organization of a gender-balanced Congress. Female participants represented 53% of participants attending the meeting in any role and 51% of scientific delegates. An even higher female representation was recorded among students.

When compared to previous ICI meetings for which data are available, ICI 2013 emerged as the most gender-balanced ICI meeting ever organized.
5.4 The ICI 2013 Faculty

The ICI 2013 comprised 210 speakers and 226 chairs, for a total of 426 Faculty members from 40 different Nations. Though comparable in total numbers to the ICI 2010 Faculty, when corrected for the over-representation of Japanese at ICI 2010 and Italians at ICI 2013, the ICI 2013 Faculty showed a better distribution among Nations, with a significantly higher number of representatives from South America and Africa. When the Italian representatives are removed from calculation, also the representation of European societies resulted more equally distributed. Representation from North America and Asia was similar. Of note, the Italian overrepresentation was mostly concentrated in the role of workshop chairs, where a significant number of last-minute drop-outs were registered.

Faculty members from individual Nations are reported in the following table:

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<tr>
<th>SOUTH AMERICA</th>
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Female representatives accounted for about 30% of the ICI 2013 Faculty, a percentage slightly higher than previous ICI meetings for which this information is available. Of note, the EB of ICI 2013 proposed a Faculty where female representatives accounted for 40% of the total; however, a significant number of invited female representatives (chairs in particular) declined the invitation and have been substituted with male representatives.
5.5 Travel grants

The ICI 2013 Bursaries to Young Immunologists

Travel grants funded by ICI 2013 have been assigned to worthy young immunologists. The ICI 2013 travel grant offered awardees registration fee and hospitality at the ICI 2013 Campus in the university hostel Camplus Turro Milano for the entire congress period. Out of over 1800 applications, the ICI 2013 Award and Travel Grant Committee evaluated applications from non-OECD countries (780) for The IUIS-Gates Foundation travel grants call and reserved the remaining 1020 applications from OECD countries for the ICI 2013 travel grants. The ICI 2013 Award Committee only evaluated applications submitted for oral presentation, and assigned prizes taking also the into account the number of applications from each country, with the exception of applications coming from Italy.


The IUIS-Gates Foundation travel grants for young immunologists from developing countries

The IUIS and The Bill and Melissa Gates Foundation have allocated 36 travel grants to immunologists from developing countries (non-OECD countries) and offered them registration fee, hospitality at the ICI 2013 Campus in the university hostel Campus Turro Milano for the entire congress period, and a per diem allowance up to 300 USD.

The EFIS travel grants

The European Federation of Immunological Societies awarded travel grants to attend ICI 2013 - at the value of 600 Euros each - to 150 young post-docs and PhD-students under 35 years of age and belonging to EFIS-affiliated National Societies. To be eligible for a grant, an applicant had to be the first author of an abstract accepted by ICI 2013; applicants had also to provide their CV and proof of membership in good standing in an EFIS-affiliated society. Successful applicants had been notified of their award by June 3, 2013 and received their grants by bank transfer following ICI 2013. Only one grant had been allocated per person, and the grant cannot be transferred. An EFIS travel grant cannot be held simultaneously with a grant for ICI 2013 awarded by another organization. Application deadline was April 15th, 2013.

1. Ghazaryan Hovsep (ARM) 2. Gualdoni Guido (AUT) 3. Quast Isaac (AUT)
4. Thell Kathrin (AUT) 5. Popow Irene (AUT) 6. Meshcheryakova Anastasia (AUT)
7. Supper Verena (AUT) 8. Avau Anneleen (BEL) 9. Venken Koen (BEL)
31. Reubsaat Lieke (DEN) 32. Shi Jing (Dutch) 33. Santegoets Kim (DEN)
34. Tete Sarah (DEN) 35. Suurväli Jaanust (EST) 36. Ghilas Sonia (FRA)
37. Baeyens Audrey (FRA) 38. Calmette Joseph (FRA) 39. Dansokho Cira (FRA)
40. Goc Jeremy (FRA) 41. Messaoudene Meriem (FRA) 42. Nuttens Charles (FRA)
43. Mrizak Dhafer (FRA) 44. Deligne Claire (FRA) 45. Lucca Liliana (FRA)
46. Chakarov Svetslov (FRA) 47. Khairallah Camille (FRA) 48. Stienne Caroline (FRA)
49. Bignon Alexandre (FRA) 50. Todorova Biliana (FRA) 51. Gupta Nimesh (FRA)
52. Ollion Vincent (FRA) 53. Pedros Christophe (FRA) 54. Borhis Gwonline (FRA)
55. Martin Romain (FRA) 56. Taleb Kahina (FRA) 57. Hardet Romain (FRA)
58. Lissina Anna (FRA) 59. Macedo Gustavo (FRA) 60. Duterre Charles-Antoine (FRA)
61. Rodney Jose (FRA) 62. Espinasse Marie-Alix (FRA) 63. Glauzy Salomé (FRA)
64. Burtion Aude (FRA) 65. Quentin Julie (FRA) 66. Khoryati Liliane (FRA)
67. Delpoux Amaud (FRA) 68. Plantamura Emilie (FRA) 69. Jönsson Friederike (GER)
70. Sepiaishvili Yan (Georgia) 71. Lu I-Na (GER) 72. Mahmood Zafar (GER)
73. Schumann Julia (GER) 74. Stanko Katarina (GER) 75. Fassl Selma (GER)
76. Vogel Simone Zazie (GER) 77. Kaufmann Ulrike (GER) 78. Reschke Claudia (GER)
82. Stojanovic Ivana (SER) 83. Nikolic Ivana (SER) 84. Bulatovic Mirna (SER)
85. Popov Aleksandra (SER) 86. Vujicic Milica (SER) 87. Rajkovic Ivan (SER)
88. Hsu Li-Chung (TAI) 89. Lekomtseva Yevgeniya (UKR) 90. Mduluza Takafira (ZIM)
91. Kone Younoussou (MLI) 92. Panda Saswati (SIN) 93. Nemes Elisa (SUD)
94. Nyakundi Ruth (KEN) 95. Yacoub-Youssef Houda (MAR) 96. Mohan Mradul (IND)
97. Muñoz-Wolf Natalia (URU) 98. Mduluza Takafira (ZIM) 99. Tian Jie (CHN)
100. Kabilova Tatyana (RUS) 101. Kammoun Rebai Wafa (TUN) 102. Kone Younoussou (MLI)
103. Lenac Rovniš Tihana (CRO) 104. Marharyta Volkava (BLR) 105. Matangkasombut Ponpan (THL)
109. Marharyta Volkava (BLR) 110. Matangkasombut Ponpan (THL)
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The ICI-AAI travel grants for Immunologists from developing countries

The American Association of Immunologists provided 20 travel grants to immunologists from developing countries (USAID Developing and Advanced Developing Countries). Awardees have been reimbursed for registration and travel expenses; the amount of the reimbursement was Euros 1.115,00. This call collected a total of 70 applications, evaluated and scored by the ICI 2013 Award and Travel Grant Committee.

1. Atoum Manar (JOR)
2. Best Ivan (PER)
3. Bhattacharyya Arindam (IND)
4. Blinova Elena (RUS)
5. Capozzo Alejandro (ARG)
6. Clavijo Salomon Maria (BRA)
7. Dergan Dylon Sebastián (ARG)
8. Dias de Melo Guilherme (BRA)
9. Dubey Sweta (IND)
10. Dzoro Sheron (BOT)
11. Gustiananda Marsia (INA)
12. Kanga Uma (IND)
13. Maneerat Yaowapa (THA)
14. Mihaylova Nikolina (BUL)
15. Mongini Claudia (ARG)
16. Ode Odogbo Moses (NGR)
17. Ramesh Kumar (IND)
18. Retshabile Gaone (BOT)
19. Wada-Kura Moses (NGR)
20. Yap Fei-Ling (MAS)

National Societies travel grants

Travel grants have been provided by the following National Societies:

1. Società Italiana di Immunologia Immunologia Clinica e Allergologia
2. Austrian Society for Allergology and Immunology
3. Australasian Society for Immunology
4. Brasilian Society of Immunology
5. British Society for Immunology
6. Canadian Society of Immunology
7. German Society for Immunology
8. Japanese Society for Immunology
9. Société Française d'Immunologie
10. Swiss Society for Allergology and Immunology
11. Turkish Society of Immunology
6 Satellite meetings

Seven pre and post Conference focused satellite meetings have been offered at top Italian destinations or at same ICI 2013 location.

Satellite meetings allowed devoting more time than was available during ICI2013 to specific topics of interest to a more specialized audience.

Scientific programs of satellite meeting are provided in the enclosed material.

Satellite meetings were dedicated to:

**SM1. 5th International Conference on B cells and Autoimmunity**  
Como Lake; August 19-21, 2013

**SM2. 10th International Veterinary Immunology Symposium**  
Milan; August 28 - September 1 2013

**SM3. Aging and the Immune System**  
Milan (in MICO); August 20-22, 2013

**SM4. 23rd AINI Congress - Italian Association of Neuroimmunology**  
Milan (in MICO); August 20-22, 2013

**SM5. Mast Cells in Innate and Acquired Immunity**  
Udine; August 28-30, 2013

**SM6. Fungi in the Setting of Inflammation, Allergy and Autoimmune Diseases: Translating Basic Science into Clinical Practices**  
Perugia; August 29-30, 2013

**SM7. Endotoxin, TLR4 signaling, and Beyond**  
Villa Forno, Cinisello Balsamo (Milan); August 21, 2013
Recently, studies of B cell physiology have continued to provide new and surprising insights into major autoimmunity questions, with novel potential immuno-intervention strategies. This satellite meeting was intended to bring together basic scientists and clinicians with research interests in a range of autoimmune diseases. The major goal of this meeting was to view and discuss recent advances in different facets of B cell biology and to put them in the prospect of understanding autoimmunity and of designing effective immuno-intervention strategies. Novel subpopulations, regulatory B cells were analyzed and discussed deeply and the most relevant results will be presented in a special issues of Molecular Immunology.

**Scientific organizers**
- Rita Carsetti, Italy
- Betty Diamond, USA
- Moncef Zouali, France

Estimated number of participants: 70
6.2 10th International Veterinary Immunology Symposium

Milan, August 28 - September 1, 2013.

The meeting was organized on behalf of the Veterinary Immunology Committee (VIC) of IUIS and hosted by Università degli Studi, Milan. The symposium was an international forum for the presentation and discussion of advances in veterinary immunology, with emphasis on both basic and applied research, and repercussions on disease control in farm animals and pets. Large animal models in bio-medical research will be discussed as well. Emphasis was placed in creating a suitable environment for a fruitful interaction among researchers of many different Countries and diverse experience to create an effective collaboration among scientists from different immunology fields.

Local Organizing Committee:

- Massimo Amadori: Chair, Istituto Zooprofilattico Sperimentale, Brescia
- Marina Bagni: Italian Ministry of Health, Rome
- Luigi Bonizzi, Paola Dall’Ara, Giorgio Poli, Federica Riva, Alfonso Zeconni: Milan Veterinary School
- Canio Buonavoglia: Bari Veterinary School
- Mariangela Caroprese: Faculty of Agricultural Sciences, Foggia
- Cecilia Garlanda: SIICA, Italian Member Society of IUIS
- Nicola Lacetera: Faculty of Agricultural Sciences, Viterbo
- Livia Moscati: Istituto Zooprofilattico Sperimentale, Perugia
- Paolo Pasquali: Istituto Superiore di Sanità, Rome
- Mauro Pistello: Department of Experimental Pathology, Pisa
- Sergio Rosati: Turin Veterinary School

Estimated number of participants: 100
6.3SM3. Aging and the Immune System - Registration will open on April 15, 2013
Milan, August 20-21, 2013.

The major goal of the meeting was to view and discuss recent advances in research on the immunology of aging, addressing the most important research areas such as innate, adaptive and clinical immunology. The Meeting provided basis for constructive discussions on recent achievements in the field and for close interactions between colleagues and trainees which will lead to future collaborations.

The Satellite Meeting covered various currently important topics on the aging immune system, from accelerated aging in HIV to aging and vaccine responses, aged (centenarian) populations, microbiome changes with age and the opportunity to have immune-interventions in diseases.

Scientific organizers:
- Bonnie B Blomberg, USA
- Daniela Frasca, USA
- Rebecca Fuldner, USA

Estimated number of participants: 150
6.4. Mast Cells in Innate and Acquired Immunity

*Udine, August 29-30, 2013.*

The meeting was hosted by the European Mast Cell and Basophil Network (EMBRN) and the European Cooperation in Science and Technology (COST) Action. The meeting developed as an international forum for the presentation and discussion of advances in understanding of mast cell and basophils, on their roles in disease and on the potential as targets for new therapies, and has been held in an environment facilitating interactions between researchers in this increasingly important field.

**Scientific organizers:**
- Carlo Pucillo, Italy
- Marco De Carli, Italy
- Juan Rivera, USA
- Marcus Maurer, Germany
- Fracesca Levi Schaffer, Israel
- Stephan Bischoff, Germany
- Franco Falcone, UK
- Ulrich Blank, France

Estimated number of participants: 220
6.5. Fungi in the Setting of Inflammation, Allergy and Autoimmune Diseases: Translating Basic Science into Clinical Practices

Perugia, August 29-30, 2013.

The meeting was organized with the Support of the Specific Targeted Research Projects “ALLFUN” (FP7-HEALTH-2009-260338), within the HEALTH-2010.2.4.5-2: Infections and dysbiosis as the triggers of the development of inflammatory processes in allergies and autoimmune diseases. It was an international forum for the presentation and discussion of advances in understanding of the cellular and molecular mechanisms by which ubiquitous airborne or commensal fungi contribute to immune homeostasis and its dysregulation leading to inflammatory diseases. The Meeting brought together a consortium of leaders in the fields of fungal pathology and immunopathology, functional genomics, immunomics, allergomics and bioinformatics for comprehensive analysis of genetic and molecular mechanisms by which the innate adaptive immune systems are regulated and dysregulated in fungal colonization and diseases from basic science to patients with fungal diseases.

Scientific organizers:
- Luigina Romani, Italy
- Agostinho Carvalho, Italy
- Jean-Paul Latgé, France
- Reto Crameri, Switzerland
- Levitz Stuart, USA

Estimated number of participants: 60
Neuroimmunology is a rapidly expanding field with tremendous and daily advances from basic immunology to clinical practice and the satellite meeting was a great opportunity to meet among established scientists, but also undergraduate and post-graduated students. The meetings provided a scientific body able to guarantee that researchers worldwide are kept abreast of new developments, offering a unique chance to approach and deepen the most relevant and outstanding topics in basic and clinical immunology, fostering effective cross-fertilization.

**Scientific organizers**
- Francesca Aloisi, Italy
- Christian Münz, Switzerland

Estimated number of participants: 100
6.7 Endotoxin, TLR4 signaling, and beyond

Milan, August 21, 2013.

The symposium focused on the mechanisms of microbial ligand biogenesis and presentation to Toll-Like Receptors, receptor activation and signal transduction, and the translation of these new insights to novel immune-pharmacologic interventions. Scientists from around the world discussed the molecular aspects related to innate immunity and inflammation.

Scientific organizers:
• Francesco Peri, Italy
• Francesca Granucci, Italy
• Jerry Weiss, USA

Estimated number of participants: 60
7 Social events

7.1 The Opening Ceremony
The Congress officially opened with a ceremony based on two lectures, from the Nobel laureate Jules Hoffmann and the global head of vaccines research for Novartis Rino Rappuoli, focusing on the expectations for vaccines for the 21st century society. The ceremony alternated science with music from the piano player maestro Sandro De Palma and the voices of the sopranos Graciela Dorbessan and Maria Chiara Pavone. A taste of the best tradition of Neapolitan and Italian music compositions of the XVIII and XIX centuries, respectively represented by Cimarosa and Scarlatti sonatas and Puccini and Donizetti famous opera melodies, was presented. Finally the young and talented violinist Francesca Dego performed three capriccios by Paganini.

As a gift to all the congress participants, maestro De Palma made available the recordings of the piano sonatas, to be downloaded from the ICI 2013 web site (sound tracks are provided in the enclosed material).

Luciano Adorini, President 15th ICI - Opening speech
Stefan H.E. Kaufmann, IUIS President - Welcome address
Vincenzo Barnaba, President SIICA - Welcome address
Cristina Tajani, Milan City Councillor for Cultural Affairs - Welcome address
Sandro De Palma, piano
Domenico Cimarosa
  - Cinque Sonate per fortepiano
Domenico Scarlatti
  - Sonata K. 380 in mi maggiore - Andante comodo
  - Sonata K.427 in sol maggiore - Più presto possibile
  - Pastorale (Allegretto) e Capriccio (Vivace)

Lecture by Jules Hoffmann
Innate immunity: from flies to humans
Introduced by Stefan H.E. Kaufmann
Maria Chiara Pavone and Graciela Dorbessan, sopranos
Sandro De Palma, piano
Giacomo Puccini
- Mi chiamano Mimi (from La Bohème) Graciela Dorbessan
Gioachino Rossini
- L’invito (from Soirées musicales) Maria Chiara Pavone
Giacomo Puccini
- Vissi d’arte (from Tosca) Graciela Dorbessan
Gaetano Donizetti
- Lu tradimento (Neapolitan song) Maria Chiara Pavone
Gaetano Donizetti
- I bevitori (Duet for two sopranos and piano) Graciela Dorbessan and Maria Chiara Pavone

Lecture by Rino Rappuoli
Designing vaccines for the 21st century society
Introduced by Vincenzo Barnaba

Francesca Dego, violin
Niccolò Paganini
- Cantabile per violino e pianoforte (Sandro De Palma, piano)
- Capriccio n. 20 (Allegretto)
- Capriccio n. 21 (Amoroso, presto)
- Capriccio n. 24 (Tema con variazioni, quasi presto)

Welcome reception
7.2 The President and Faculty Dinner

The Faculty dinner took place in the main court of the University of Milan, a magnificent courtyard bordered by two-storyed archades in Renaissance style. The seated dinner for 550 guests was preceded by a chamber music concert in the baroque church across the court entrance. The concert featured a cello quartet by Benedetto Marcello and excerpts from Verdi’s Luisa Miller for string quartet. The dinner was accompanied by classic music for harp and strings.
7.3 The Official Party

On Monday, August 26th the Official Party of ICI 2013 has taken place at the “Chiostri dell’Umanitaria”, a former Franciscan Convent dating back to 1400, located in the center of Milan.

Such a location has enchanted all approximately 1400 participants, with its four Renaissance cloisters and the former dining hall, the so called Hall of Frescoes with paintings by Leonardo’s school. An Official Party buffet dinner has been held in the beautiful central cloister.

During dinner, people have been warmly entertained by sophisticated jazz music played by the “Roberto Zanetti trio”, featuring Federica Calzetti (from Verona). After 11.30, the DJ started to air disco music within the framework of the Convent, thus inviting both young and mature scientists to riotously dance. As demonstration of the success of the event, last people leaving the location did so only after 2 am, but only because they were “forced” by the organizers.
7.4 The Closing Ceremony

The Closing Ceremony took place at 19:30 on the last day of the meeting in the Gold Room of the Milan Congress Center. It was well attended, with about 2000 participants, and featured closing addresses by Luciano Adorini, President of ICI 2013 and Vincenzo Barnaba, President of SIICA. These were followed by a presentation, given by Jose’ Villadangos, of the 16th ICI that will take place in Melbourne in 2016 and by a final address delivered by Jorge Kalil, current President of IUIS.
8 Logistics

8.1 Accommodation
Recipients of travel grants from ICI 2014 (50 students), IUIS-Gates Foundation (36 students) and SIICA (14 students) have been offered double or single room accommodation with breakfast included at the Collegio Campus Living Turro, giving the students the opportunity to fully enjoy the international experience on the Congress by meeting young scientists of different nationalities. The Campus is close to the metro station, which made it easy for the students to reach ICI2013.

8.2 Transportation
The Congress center was well connected with the three national and international airports serving Milan (Linate, Malpensa, Orio al Serio).
Once in town, the Congress center was easily accessible using the metro:

- **Metro Red Line 1:** “Amendola” station (700 m).
- **Metro Green Line 2:** change at “Cadorna” for “Lotto” station (800 m).
- **Metro Yellow Line 3:** change at “Duomo” for “Amendola” station on Line 1 (700 m).
- **Downtown railway:** “Domodossola” station (600 m).

As the Congress venue was well connected with the metro, delegates were provided the opportunity to purchase ticket covering the use of public transportation for the entire conference for the discounted price of 14 Euro. A total of 1280 tickets have been sold.
9 Financial aspects

9.1 Industrial sponsors

ICI 2013 collected contributions from approximately 60 industrial sponsors, all of which were present in the exhibitors’ area with a booth and in several cases also sponsored other Congress activities:

<table>
<thead>
<tr>
<th>Sponsor Name</th>
<th>Sponsor Name</th>
<th>Sponsor Name</th>
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</thead>
<tbody>
<tr>
<td>ACRAF Angelini</td>
<td>Abcam</td>
<td>Adaptive Biotechnologies</td>
</tr>
<tr>
<td>ICI 2013</td>
<td>Array</td>
<td>Beckman Coulter</td>
</tr>
<tr>
<td>Beckman Coulter</td>
<td>BioLegend</td>
<td>Bio-Rad AbD Serotec</td>
</tr>
<tr>
<td>Becton Dickinson Biosciences</td>
<td>Biotest AG</td>
<td>Campoverde</td>
</tr>
<tr>
<td>Bio-Rad Laboratories</td>
<td>Cedarlane Corporation</td>
<td>CellGenix</td>
</tr>
<tr>
<td>Cayla Invivogen</td>
<td>CTL Europe</td>
<td>Charles River Laboratories Italia</td>
</tr>
<tr>
<td>Cell Signaling Technology</td>
<td>Dompè</td>
<td>eBioscience</td>
</tr>
<tr>
<td>EEM International Congress Services</td>
<td>ExBio Antibodies</td>
<td>Genentech</td>
</tr>
<tr>
<td>Hycult Biotech</td>
<td>I care</td>
<td>Immudex</td>
</tr>
<tr>
<td>Intercept</td>
<td>InvivoGen</td>
<td>Jackson ImmunoResearch Europe</td>
</tr>
<tr>
<td>Janssen Cilag</td>
<td>Komabiotech</td>
<td>JPT Peptide Technologies</td>
</tr>
<tr>
<td>Kyowa Hakko Kirin</td>
<td>Labtech</td>
<td>Merck Chemicals</td>
</tr>
<tr>
<td>Merk Millipore</td>
<td>Meso Scale Discovery</td>
<td>Mitenyi Biotec</td>
</tr>
<tr>
<td>Novus Biologicals</td>
<td>Octapharma AG</td>
<td>Ozyme</td>
</tr>
<tr>
<td>Partec</td>
<td>PBL InterferonSource</td>
<td>Peprotech</td>
</tr>
<tr>
<td>Perbio Science</td>
<td>Prisys Biotechnologies</td>
<td>ProlImmune</td>
</tr>
<tr>
<td>ProteinTech Group</td>
<td>Quantis Scientific</td>
<td>R&amp;D Systems</td>
</tr>
<tr>
<td>Randox Laboratories</td>
<td>Roche</td>
<td>Roche Glycart</td>
</tr>
<tr>
<td>Sino Biological</td>
<td>Sony Corporation</td>
<td>StemCell Technologies</td>
</tr>
<tr>
<td>Suzhou SJ Biomaterials</td>
<td>Thermo Scientific</td>
<td>Swedish Orphan Bio-Vitrum</td>
</tr>
</tbody>
</table>

Beyond industrial sponsors, significant contributions came from other commercial partners, including editors and Foundations:

<table>
<thead>
<tr>
<th>Sponsor Name</th>
<th>Sponsor Name</th>
<th>Sponsor Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frontiers in Immunology</td>
<td>Acteria Foundation</td>
<td>Else Kroner Fresenius</td>
</tr>
<tr>
<td>Federazione Italiana Scienze Mediche</td>
<td>IMI</td>
<td>Melissa and Bill Gates Foundation</td>
</tr>
<tr>
<td>Università degli Studi di Milano</td>
<td>Wiley Press</td>
<td>John Wiley &amp; Sons</td>
</tr>
<tr>
<td>American Association of Immunology</td>
<td>Istituto Superiore di Sanità</td>
<td></td>
</tr>
</tbody>
</table>

National Societies contributed to the Congress income by acquiring a booth in the ICI 2013 Immunology Village. However, it should be noted that booths to National Societies and other non-for-profit organizations were sold at direct cost:

Austrian Society For Allergology and Immunology
American Association of Immunology
British Society for Immunology
European Federation of Immunological Societies
German Society for Immunology
Singaporean Society for Immunology
Societe Francaise d’Immunologie
Turkish Society for Immunology
Società Italiana di Immunologia Immunologia Clinica e Allergologia
9.2 Registrations

The Congress registered a total of 5268 participants, with different categories represented as previously indicated and here summarized:

<table>
<thead>
<tr>
<th>Category</th>
<th>EARLY</th>
<th>LATE</th>
<th>ON-SITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delegates</td>
<td>1837</td>
<td>682</td>
<td>166</td>
</tr>
<tr>
<td>Faculty</td>
<td>439</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students</td>
<td>1069</td>
<td>412</td>
<td>67</td>
</tr>
<tr>
<td>FAIS members</td>
<td>15</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>Guests</td>
<td>99</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel grant recipients</td>
<td>101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Press</td>
<td>34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhibitors</td>
<td>233</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accompanying persons</td>
<td>96</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Congress also registered students for the two immunology courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic immunology course</td>
<td>371</td>
</tr>
<tr>
<td>Clinical immunology course</td>
<td>198</td>
</tr>
</tbody>
</table>
9.3 Income and expenditures

<table>
<thead>
<tr>
<th>INCOME</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registrations</td>
<td>1,481,027</td>
</tr>
<tr>
<td>Industrial sponsors</td>
<td>808,246</td>
</tr>
<tr>
<td>Sponsored travel grants</td>
<td>42,886</td>
</tr>
<tr>
<td>Courses</td>
<td>47,181</td>
</tr>
<tr>
<td>Official party tickets</td>
<td>63,357</td>
</tr>
<tr>
<td>Public transportation tickets</td>
<td>18,508</td>
</tr>
<tr>
<td><strong>TOTAL (VAT excluded)</strong></td>
<td>2,461,207</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENDITURES</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN_01 Congress venue</td>
<td>423,164</td>
</tr>
<tr>
<td>EN_02 Setting up</td>
<td>127,505</td>
</tr>
<tr>
<td>EN_03 Technical equipments</td>
<td>208,486</td>
</tr>
<tr>
<td>EN_04 Printed matters</td>
<td>54,065</td>
</tr>
<tr>
<td>EN_06 Catering</td>
<td>31,867</td>
</tr>
<tr>
<td>EN_07 Guest accommodations</td>
<td>10,348</td>
</tr>
<tr>
<td>EN_08 Guest travels</td>
<td>912</td>
</tr>
<tr>
<td>EN_09 Guest fees</td>
<td>233,201</td>
</tr>
<tr>
<td>EN_11 Social events</td>
<td>213,073</td>
</tr>
<tr>
<td>EN_12 Congress kit</td>
<td>2,900</td>
</tr>
<tr>
<td>EN_13 Reception technical equipment</td>
<td>14,796</td>
</tr>
<tr>
<td>EN_15 Hostesses and stewards</td>
<td>68,715</td>
</tr>
<tr>
<td>EN_17 Web-site</td>
<td>16,945</td>
</tr>
<tr>
<td>EN_18 Mailing-delivery-stationery-phone</td>
<td>6,480</td>
</tr>
<tr>
<td>EN_19 Promotion</td>
<td>82,347</td>
</tr>
<tr>
<td>EN_20 Inspections</td>
<td>31,155</td>
</tr>
<tr>
<td>EN_21 On-line registration management</td>
<td>62,663</td>
</tr>
<tr>
<td>EN_22 Miscellaneous</td>
<td>147,775</td>
</tr>
<tr>
<td>EN_23 Scientific secretariat</td>
<td>20,000</td>
</tr>
<tr>
<td>EN_24 Pre and post-congress activities</td>
<td>150,000</td>
</tr>
<tr>
<td>EN_25 Agency fee</td>
<td>196,896</td>
</tr>
<tr>
<td><strong>TOTAL (VAT excluded)</strong></td>
<td>2,103,299</td>
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</table>

<table>
<thead>
<tr>
<th>BALANCE</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Net difference</td>
<td>357,908</td>
</tr>
<tr>
<td>Reward SIICA (up to $365,000):</td>
<td>264,665</td>
</tr>
<tr>
<td>Delta SIICA over $365,000 (70%):</td>
<td>65,270</td>
</tr>
<tr>
<td>Delta IUIS over $365,000 (30%):</td>
<td>27,972</td>
</tr>
</tbody>
</table>

OVERALL SIICA REWARD: 329,935 Euro

OVERALL IUIS REWARD ($60 fee per fully-paying delegate plus 30% delta on net balance over $365,000): 144,971 Euro ($199,930)

Euro/USD official exchange rate of December 31st 2013: 1,3791. (http://www.bancaditalia.it/banca_centrale/cambi/rif/2013/12/cambi_rif_3112.htm)
10 Media reports and impressions

10.1 Media reports on the Congress

The Congress took place in an unfavorable period to disseminate its contents to the media, which, especially during Summer, prefer lighter subjects. In August, newspapers and magazines tend to have fewer pages, science and medicine inserts are often suspended, and major television and radio broadcasts on scientific subjects have already been recorded weeks before. Nevertheless, the Congress got considerable resonance: it was picked by the local edition of the National television news (RAI TG3 Lombardia) and by the most important Italian daily newspapers (Corriere della Sera and La Repubblica), which wrote about it repeatedly in their websites and in some of their inserts and attachments.

During and after the conference, the Communication Office established in the Congress venue produced several press releases, which have been relaunched on the Internet by many websites, both general and specialized in science, health and medicine (see links attached). Among these, Medical News Today and Medilexicon deserve to be mentioned: Medical News Today is the largest independent medical and health news site on the web, has over 5,000,000 monthly unique users and 10,000,000 monthly page views, and is ranked number one for medical news on Google, Bing and Yahoo!. Medical News Today is followed by Blue Chip pharmaceutical and health organizations, advertising agencies, PR companies and vertical ad networks to deliver contextually targeted disease/condition and general health campaigns.

The Communication Office organized a press conference in the Congress venue, with the involvement of some of the most prominent scientists at ICI 2013 and the delegate of Milan municipality to scientific research Dr. Tajani. The press conference was attended by 25 journalists, has been webstreamed, and was also made available on YouTube.

Press Conference part I (with Romagnani, Doherty and Zinkernagel)
http://www.youtube.com/watch?v=psWBotloGtQ

Press Conference part II (with Rappuoli and Doherty)
http://www.youtube.com/watch?v=GSTd973oADc&feature=youtu.be
To advertise the Congress, the Communication Office also distributed via YouTube an interview to the Congress President two weeks before the Congress. The ICI 2013 President also released an interview at the end of the Congress highlighting the most significant achievements of the Congress:

**The best of immunology coming soon in Milan**
Luciano Adorini
http://www.youtube.com/watch?v=UulH53vu7b4

**What are your final remarks on ICI2013?**
Luciano Adorini
http://www.youtube.com/watch?v=nln1P6CI_sw

Finally, the Opening Ceremony has also been webstreamed and was made available on YouTube:

**Opening Ceremony**
http://www.youtube.com/watch?v=iOpuPQ_3fi4
Throughout all the Congress the website www.scienzainrete.it followed the scientific sessions with live streaming of all the plenary lectures:

1. **Mitochondrial transport by microtubule acetylation is essential to NLRP3-inflammasome activation**  
   Shizuo Akira  
   [http://www.youtube.com/watch?v=OIS0uUv9cc4&feature=youtu.be](http://www.youtube.com/watch?v=OIS0uUv9cc4&feature=youtu.be)

2. **Inflammation and tissue homeostatis**  
   Ruslan Medzhitov  
   [http://youtu.be/tuKru8qGjyk](http://youtu.be/tuKru8qGjyk)

3. **On immunity in, biomarkers for, and vaccines against tuberculosis**  
   Stefan H. E. Kaufmann  
   [http://www.youtube.com/watch?v=5eLEMIFcmAM](http://www.youtube.com/watch?v=5eLEMIFcmAM)

4. **Interactions between the cellular and humoralarm of innate immunity**  
   Alberto Mantovani  
   [http://www.youtube.com/watch?v=rtWP4rtJlm0](http://www.youtube.com/watch?v=rtWP4rtJlm0)

5. **Control of immune response by regulation T cell**  
   Shimon Sakaguchi  
   [http://www.youtube.com/watch?v=O3_vGY5DxSE](http://www.youtube.com/watch?v=O3_vGY5DxSE)

6. **Dissecting the antibody response to pathogens and self antigens**  
   Antonio Lanzavecchia  
   [http://www.youtube.com/watch?v=pxMCSilfxdo](http://www.youtube.com/watch?v=pxMCSilfxdo)

7. **AIRE control of immunological tolerance: new twist**  
   Diane Mathis  
   [http://www.youtube.com/watch?v=kIGWzCrcHVs](http://www.youtube.com/watch?v=kIGWzCrcHVs)

8. **The inflammasome in health and disease**  
   Richard A. Flavell  
   [http://www.youtube.com/watch?v=zC41bwBqpOs](http://www.youtube.com/watch?v=zC41bwBqpOs)

9. **Cancer immunoediting: basic mechanism and therapeutic implications**  
   Robert D. Schreiber  
   [http://www.youtube.com/watch?v=IPXUoR1iTVA](http://www.youtube.com/watch?v=IPXUoR1iTVA)

10. **Human effector CD4$^+$ T cells**  
    Sergio Romagnani  
    [http://www.youtube.com/watch?v=a9jewQ8oJzc](http://www.youtube.com/watch?v=a9jewQ8oJzc)
Throughout all the Congress the website www.scienzainrete.it also recorded video interviews with some of the main speakers, which have now been posted on YouTube:

1. **The best of Immunology in Milan**  
   Luciano Adorini  
   http://www.youtube.com/watch?v=UulH53vu7b4

2. **Why is tolerance so important?**  
   Abul Abbas  
   http://www.youtube.com/watch?v=Zg4MvDaMqsq

3. **What is the purpose of immune monitoring?**  
   Mark Davis  
   http://www.youtube.com/watch?v=b2LvphK1sZc

4. **Will immunology cure all diseases?**  
   Peter C. Doherty and Rolf M. Zinkernagel  
   http://www.youtube.com/watch?v=i3bZ_EL2BFw

5. **What the impact and future perspectives of anti TNF therapy?**  
   Marc Feldmann  
   http://www.youtube.com/watch?v=lNpEs5NMGjL

6. **Can we prevent cancer by a vaccine?**  
   Olivera Finn  
   http://www.youtube.com/watch?v=-_uQ1r74d_I

7. **What's the relevance of curiosity driven research?**  
   Jules Hoffmann  
   http://www.youtube.com/watch?v=GlnIE32Y4ms

8. **Which are the perspectives for a vaccine against HIV?**  
   Jorge Kalil  
   http://www.youtube.com/watch?v=i5nXZtGCq3c

9. **Do we really need a new vaccine against tuberculosis?**  
   Stefan Kaufmann  
   http://www.youtube.com/watch?v=2IZC3Ha2T2I

10. **What is known about the causes of autoimmune diseases?**  
    Diane Mathis  
    http://www.youtube.com/watch?v=cnucBbgHqPs

11. **L'Italia guida l'immunologia mondiale**  
    Alberto Mantovani  
    http://www.youtube.com/watch?v=zvlfaF3pnzI

12. **Can immunology replace the use of animals in labs?**  
    Sergio Romagnani  
    http://www.youtube.com/watch?v=bVNOaO0ols8
10.2 Comments from delegates and sponsors

Several components of the Organizing Committee have received comments on the Conference, and we have been extremely pleased by their unanimously positive tone. All comments received by email are provided in the attached document. We would only report here one of the most pleasant comments received:

“Rarely have I seen such an excellent program at large meeting of this size. The scientific match, the choice of the speakers and the complementarity of the topics were outstanding. The venue and the logistics were remarkably efficient and your continuous presence was reassuring”

Jules Hoffmann

Equally important we believe, the exhibitors were also satisfied by the Conference organization, with a positive feedback extending beyond ICI 2013:

“The conference was a great success for us and we appreciate all of your help during the planning stages. Please keep me abreast on communications regarding the next ICI!”

Adaptive Biotech

For further information please see the enclosed document “Comments on ICI 2013”.
11 Afterwords and thanks

A congress like the ICI 2013 is a complex machine, which requires a lot of energy to be organized and function properly. On behalf of SIICA, I would like to thank the many friends and colleagues in the different committees that have contributed to the congress organization. I will not be able to go through all the names here, but there are a few that I would like to thank personally. In particular, Sergio Romagnani, Honorary President of the meeting, with whom I have prepared and presented the two bids to IUIS, Massimo Locati, Secretary General of ICI 2013 and Secretary of SIICA, who has helped me tremendously in the organization and with whom I have discussed every detail of the meeting to ensure a smooth operation, and Vincenzo Barnaba, President of the Italian Society for Immunology, SIICA, that has been able to foster the commitment of the entire Society towards the successful conclusion of this meeting. I would also like to give special thanks to Alberto Mantovani and Lorenzo Moretta, co-chairs of the Scientific Program Committee, who have assembled a really great scientific program.

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Luciano Adorini
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