



International Symposium  
Innate Immune Memory  
Naples, Italy

5<sup>th</sup> International  
Symposium  
on Trained Immunity

29<sup>th</sup> - 31<sup>st</sup> May 2023

## International Symposium Innate Immune Memory May 29<sup>th</sup>-31<sup>st</sup> 2023, Naples, Italy

Congress Venue at Parthenope Conference Centre  
Università di Napoli Federico II, via Pathenope n. 36, Napoli, Italy

<https://www.innateimmunememory.org/index.php>

### Monday May 29<sup>th</sup>

10.00h **Welcome – University Authorities & The Organizers:** Giuseppe Matarese, Mihai Netea, Triantafyllos Chavakis, Siroon Bekkering, George Hajishengallis, Zoltan Fehervari

#### **Mechanisms in regulating trained immunity**

*Chairs: Jorge Dominguez Andres (Nijmegen-Netherlands) & Shih-chin Cheng (Xiamen-China)*

10.15h Luis Barreiro – Systems immunology of innate immune responses  
10.45h Boris Novakovic – Mechanisms of trained immunity in endothelial cells  
11.15h Triantafyllos Chavakis – Mechanisms of trained immunity in neutrophils  
11.45h Judith Austermann – Core histone degradation drives immune tolerance in human monocytes (from submitted abstracts)

12.00h **Light Buffet Lunch and Poster Session**

*Chairs: Jessica dos Santos (Nijmegen-Netherlands) & Claudio Procaccini (Napoli-Italy)*

14.00h **Keynote:** Galit Alter – Systems serology and trained immunity  
14.30h Aki Minoda – MUKIN (Germ-free) Mouse Ageing Atlas: Determining microbiota-dependent ageing signatures  
15.00h Sarah J. Sun – BCG Vaccination impacts the epigenetic landscape of progenitor cells in human bone marrow (from submitted abstracts)  
15.15h Rachel Low – A paradoxical role of the MEK1/2-ERK-RSK signalling axis in the priming of macrophages (from submitted abstracts)

15.30h **Coffee Break**

## Scientific Program

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- 16.00h Timothy Osborne – Intersection of trained immunity and metabolism in macrophages through SETDB2 (from submitted abstracts)
- 16.15h Huan Jin – NAMPT/NAD<sup>+</sup> metabolic axis in macrophage promotes trained immunity-mediated antitumor activity (from submitted abstracts)
- 16.30h Keynote: Bali Pulendran – Systems innate vaccinology

### 17.00-17-15h **Cytosens Sponsored Talk**

Simona Maida – 7 Laser & 186 Detectors: ID7000 Spectral Cell Analyzer, Best in-Class High-Parameter Flow Cytometry

### 19.00h **Get Together Welcome Reception**

## Tuesday May 30<sup>th</sup>

### **Molecular and cellular mechanisms in health and diseases**

*Chairs: Yenan Bryceson (Huddinge-Sweden) & Rob Arts (Nijmegen-Netherlands)*

- 9.00h Michael Sieweke – Central trained immunity in progenitor cells
- 9.30h Musa Mhlanga – Epigenetics of trained immunity in myeloid cells
- 10.00h George Hajishengalis – The role of trained immunity in chronic diseases
- 10.30h Silvia Pires – TL1A promotes ILC3-dependent neutrophil activation and colitis associated cancer (from submitted abstracts)
- 10.45h Anne-Sophie Beignon – Orchestration of myelopoiesis, early innate myeloid responses, and long-term innate immune imprinting after vaccination (from submitted abstracts)
- 11.00h **Coffee Break**
- 11.30h Chiara Romagnani – Epigenetics of NK cell memory
- 12.00h Antoine Roquilly – Post-sepsis immunological effects on cancer
- 12.30h James Shih-chin Cheng – Malaria pigment hemozoin induces persistent myelopoiesis-bias and boosts host immunity (from submitted abstracts)
- 12.45h Viviane Bechtold – AS01B-adjuvanted vaccine promotes functional and epigenetic modifications in monocytes (from submitted abstracts)
- 13.00h **Light Buffet Lunch and Poster Session**

### **Trained immunity in vertebrates**

*Chairs: Anaisa Valido Ferreira (Nijmegen-Netherlands) & Sarah Sun (Chicago-USA)*

## Scientific Program

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- 14.30h Katherine King – Central trained immunity in mycobacterial infection  
15.00h Steven Josefowicz – Epigenetic memory in innate immune cells post-COVID-19  
15.30h Zhou Xing – Innate immune memory of resident macrophages  
16.00h **Coffee Break**  
16.30h Margarida C. Gomes – Training innate immunity in zebrafish using *Shigella* (from submitted abstracts)  
16.45h Dane Parker – *Staphylococcus aureus* induces broadly protective innate memory in airway epithelial cells (from submitted abstracts)

### **Editors corner**

- 17.00h Zoltan Fehervari (*Nature*) & Jamie Wilson (*Nature Immunology*) – Navigating the difficult sea of top journal publications  
18.00h **Open Discussion and Poster Session**  
20.00h **Invited Speakers Dinner**

### **Wednesday May 31<sup>st</sup>**

#### **Trained immunity and diseases**

*Chairs: Vinod Kumar (Nijmegen-Netherlands) & Eva Kaufmann (Kingston-Canada)*

- 9.00h Peter Kurre – Leukemia and trained immunity  
9.30h Siroon Bekkering – Trained immunity in cardiometabolic diseases  
10.00h Liwu Li – Programming of innate immune memory: from exhaustion to rejuvenation  
10.30h **Coffee Break**  
11.00h Barbara Mariotti – Identification of a trained phenotype in circulating neutrophils from COPD patients (from submitted abstracts)  
11.15h Jéssica C. dos Santos – HIV-1 elite controllers and their 1<sup>st</sup> degree family members show enhanced monocyte responsiveness through trained immunity (from submitted abstracts)  
11.30h Sinu P. John – Innate Immune Training Enhances the Reactivation of Latently Infected HIV-1 from Monocytic Cell Lines (from submitted abstracts)

## Scientific Program

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### **Trained immunity and treatment**

*Chairs: Athanasios Ziogas (Nijmegen-Netherlands) & Giuseppe Matarese (Napoli-Italy)*

- 11.45h Giuseppe Matarese – Caloric restriction effects on innate immunity  
12.15h Maziar Divangahi – Trained immunity on protection against tuberculosis  
12.45h Keynote: Vishwa Deep Dixit – Immunity and aging  
  
13.15h **Words of Good Bye**

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