



# 32<sup>nd</sup> Annual Conference **EMDS 2018**

Polo Didattico "Giorgio Zanotto"  
Verona, Italy  
27-29 September, 2018

The cross-road between macrophages and dendritic cells: from immunometabolism to single cell fate

## Thursday 27 September

- 9.00**                      **Registration/ Secretariat Desk Opening**
- 10.30-10.45**            **Opening Remarks**  
Vincenzo Bronte, Thomas Decker, Ursula Grohmann
- 10.45-10.45**            **Welcome Addresses**
- 11.00-12.00**            **Keynote Lecture**  
Chairman: Ursula Grohmann  
**Development and Function of Dendritic Cells subsets**  
*Kenneth Murphy*
- 12.00-13.30**            *Lunch break*
- SESSION 1. Myeloid cell subsets**  
Chairmen: Patrizia Scapini, Susanna Mandruzzato, Francesca Fallarino
- 13.30**                    **Engineering myeloid cells for enhancing anti-tumor immunity**  
*Michele De Palma*
- 14.00**                    **Enteric nervous system and myeloid cells crosstalk in homeostasis and inflammation**  
*Gianluca Matteoli*
- 14.30**                    **Neutrophil subset heterogeneity in cancer and the impact of the microenvironment**  
*Zvi Granot*
- SELECTED ORAL COMMUNICATION SESSION 1**
- 15.00 -15.15**            **OC01\_1**  
**Small molecule modulators of prion protein (PrpC) in dendritic cells regulate inflammatory responses in a model of Multiple Sclerosis**  
Giorgia Manni

### SCIENTIFIC ORGANIZERS

Vincenzo Bronte, Verona  
Ursula Grohmann, Perugia

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### ORGANIZING SECRETARIAT

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**15.15 -15.30**

**OC02\_1**

**Neutrophil traps in leukemia: from triggers of disease progression to vehicle for new vaccines**

Sabina Sangaletti

**15.30-16.00**

*Coffee break and poster viewing*

**SESSION 2. Myeloid cells in leukemia and solid cancer**

Chairmen: Aldo Scarpa, Ursula Grohmann

**16.00**

**MDSC trigger Fas-mediated apoptosis of tumor-infiltrating T lymphocytes**

*Benoit Van den Eynde*

**16.30**

**Neutrophils and PMN-MDSC in cancer: siblings or distant cousins?**

*Dimitry Gabrilovich*

**17.00**

**Dissecting Immune Complexity of Metastatic Breast Cancer**

*Karen De Visser*

**SELECTED ORAL COMMUNICATION SESSION 2**

**17.30 - 17.45**

**OC03\_2**

**IL23 secreted by myeloid cells drives castration resistant prostate cancer**

Arianna Calcinotto

**17.45 - 18.00**

**OC04\_2**

**CCR1 and CCR5 control the polarization commitment of early myeloid precursors in tumor host**

Serena Zilio

**18.00-19.00**

**HAPPY HOUR LECTURE**

Chairman: Vincenzo Bronte

***Bringing the message to dendritic cells with mRNA***

*Diken Mustafa*

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## Friday 28 September

**8.00 Registration/ Secretariat Desk Opening**

### **SESSION 3. Infections**

Chairmen: Marco Antonio Cassatella, Peter Murray

**8.30 – 9.00 Virus induced immune escape mechanisms and how the DC empire strikes back**

*Alexander Steinkasserer*

**9.00 – 9.30 Novel models of macrophage deficiency**

*David Hume*

**9.30 – 10.00 Microbiota regulation of infectious immunity**

*Luigina Romani*

**10.00 – 10.30 Resolution of inflammation and persistence of Leishmania parasites in absence of arginase 1**

*Christian Bogdan*

### **SELECTED ORAL COMMUNICATION SESSION 3**

**10.30 – 10.45 OC05\_3  
Glucocorticoids Impair Phagocytosis and Inflammatory Response in a model of human macrophages**

*Marcela A. Hermoso*

**10.45 – 11.00 OC06\_3  
CD16+ Monocytes Are Precursors for Dendritic Cells with RALDH Activity that Promote Pathogenicity during HIV-1 Infection**

*Amèlie Cattin*

**11.00 – 11.15** *Coffee break*

### **SESSION 4. Single cell analysis of myeloid cells**

Chairmen: Michele De Palma, Antonio Sica

**11.15 – 11.45 Myeloid cells in chronic inflammatory diseases at the single cell level**

*Joachim Schultze*

**11.45 – 12.15 The genomic landscapes of macrophages**

*Marta Simonatto*

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- 12.15 – 12.30**      **OC07\_4**  
**Mapping the human immune landscape in the alveolar space of healthy donors and COPD patients**  
Kevin Bassler
- 12.30 – 12.45**      **OC08\_4**  
**Integration of immune stimuli at the single-cell level expands the spectrum of macrophage activation states and identifies targets for functional reprogramming**  
Renato Ostuni
- 12.45 – 13.00**      **OC09\_4**  
**Single-cell characterization of adipose tissue macrophages**  
Andrè Sulen
- 13.00 -14.00**      *Lunch break*
- 14.00 -15.00**      *Poster Session*

## SESSION 5. Myeloid cells in tissues

Chairmen: Francesca Fallarino, Ilaria Marigo, Peter Murray

- 15.00 – 15.30**      **DC and macrophage in skin: a complex barrier**  
*Sandrine Henri*
- 15.30 – 16.00**      **Lymph: Formation, Composition and Immunological Role**  
*Laura Santambrogio*
- 16.00 - 16.30**      **The myeloid side of the brain**  
*Marta Joana Costa Jordao*

## SELECTED ORAL COMMUNICATION SESSION 5

- 16.30 – 16.45**      **OC10\_5**  
**mTOR signaling in macrophages contributes to the maintenance of iron homeostasis**  
Nyamdelger Sukhbaatar

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**16.45 – 17.00**      **OC\_11\_5**  
**Dynamic age-dependent changes in the developmental origin of mononuclear phagocytes in the kidney**  
Natallia Salei

**17.00 -19.00**      **PRESENTATION OF TRAVEL FELLOWSHIP AWARDS, POSTERS AWARDS AND YOUNG RESEARCHER AWARD**  
Chairmen: Vincenzo Bronte, Ursula Grohmann, Thomas Decker, Jonathan Jantsch, Ulriche Schleicher, Maciek Siedlar and Geert Raes  
**Macrophage identity, plasticity and polarization: what we (and I) have learned from genomics**  
Renato Ostuni  
Oral presentation of the Young Researcher Award winner

## Saturday 29 September

**8.00**                      **Registration/ Secretariat Desk Opening**

### **SESSION 6. Immunometabolism**

Chairmen: Vincenzo Bronte, Stefano Ugel, Giada Mondanelli

**8.30 – 9.00**              **Hierarchical myeloid amino acid metabolism in inflammation**  
*Peter Murray*

**9.00 – 9.30**              **Macrophages and iron metabolism**  
*Miguel Soares*

**9.30 – 10.00**          **The intersection of metabolic and immunoregulatory pathways**  
*Francesca Fallarino*

### **SELECTED ORAL COMMUNICATION SESSION 5**

**10.00 – 10.15**        **OC12\_6**  
**IL10 polarization regulates TNF-signaling and mitochondrial function in human macrophages**  
Hung-Jen Chen

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- 10.15 – 10.30**      **OC13\_6**  
**Semaphorin 6D reverse signaling controls macrophage lipid metabolism and anti-inflammatory polarization**  
Sujin Kang
- 10.30-11.00**      *Coffee break*
- 11.00-12.00**      **FAREWELL LECTURE**  
Chairman: Vincenzo Bronte  
**The power of ONE: Immunology in the age of single cell genomics**  
*Ido Amit*
- 12.00**              **PRESENTATION OF ORAL COMMUNICATION AWARD**  
Vincenzo Bronte, Thomas Decker, Ursula Grohmann
- 12.30**              **CONCLUDING REMARKS**  
Vincenzo Bronte, Thomas Decker, Ursula Grohmann

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