

PROGRAM OF THE CFCD 2024 MEETING

"Development, metabolism and function of dendritic cells and macrophages in health and disease "

CFCD Annual meeting

December 7th – 8th 2023, Bordeaux, France

Thursday December 7th, 2023

8:30 Opening of the registration desk

9:00 Welcome address Bénédicte Manoury

SESSION I – DCs and macrophages in anti-tumor immunity

Chaired by Julie Helft & Paula Michea-Veloso

9:15-9:40 Caetano Reis e Sousa (The Francis Crick Institute, London, UK)

Development and function of dendritic cells

9:40-10:05 Stefani Spranger (Massachusetts Institute of Technology, Cambridge, USA)

Not all T cell responses are equal: how dendritic cells shape anti-tumor immunity

10:05-11:05 Selected oral presentations (1st part)

10:05. Emmanouil Aerakis (BSCR Vari, Greece)

Interferon-induced lysosomal membrane permeabilization and death cause cDC1-deserts in tumors

10:20. Maria Koufaki (CR UK, Manchester, UK)

Functionally decoding the enigmatic "mregDCs": guardians or saboteurs of tumour

immunity?

10:35-11:00



Coffee Break

11:00-11:30 <u>Selected oral presentations</u> (2nd part)

11:00 Pauline Santa (Immunoconcept, Bordeaux, France)

Functions of DNASE1L3 in the regulation on anti-tumor immune responses.

11:15 Guillaume Darrasse-Jeze (i3, Pitié Salpêtrière, Paris, France)

FLT3L-dependent dendritic cells control tumor immunity by modulating Treg and NK cell

homeostasis

11:30-11:55 Massimiliano Mazzone (VIB KU Center for Cancer Biology, Leuven, Belgium)

Harnessing tumor metabolism to overcome immunosuppression: A novel way to

enhance the success of cancer immunotherapy

11:55-12:20 Mikaël Pittet (School of Medicine, Geneva, Switzerland)

Microenvironmental coordination in human cancers



12:20-13:05

Lunch talks by Sponsors

vizgen

12:20-12:35 William Amoyal (VIZGEN)

Highly multiplexed, multi-omic tissue mapping at single-cell resolution with the MERSCOPE spatial biology platform

AKOYA
BIOSCIENCES*
THE SPATIAL BIOLOGY COMPANY

> 12:35-12:50 Ali Tebbi (AKOYA Biosciences)

Scaling up deep Spatial Phenotyping with a novel Omics approach

12:50-13:05 Thibaud Metzger (NanoString)

nanoString

Beyond the Slide: Revolutionizing Spatial Profiling with NanoString Technology

13:05-15:00 LUNCH and Poster viewing

SESSION II - Multi-omics approaches of DC and macrophage development

Chaired by Florent Ginhoux & Jérôme Martin

15:00-15:25 Matthew Collin (Translational and Clinical Research Institute, Newcastle, UK)

Macrophages and dendritic cells in human graft versus host disease

15:25-15:50 Shalin Naik (The Walter and Eliza Hall Institute of Medical Research, Australia)

The development of DCs in steady-state and emergency

15:50-16:35 <u>Selected oral presentations</u>

15:50. Thomas Laurent (CR2TI, Nantes, France)

Combinatorial analysis of MNP molecular programs in Crohn disease uncovers inflammatory states associated with anti-TNF resistance

16:05. Nathan Vaudiau (Institut Pasteur, Paris, France)

Distinct migratory dendritic cell subsets cooperate to promote tissue-resident memory

CD8⁺T cells specification in tumor-draining lymph nodes

16:20. Cécile Piot (Francis Crick Institute, London, UK) Heterogeneity and spatiotemporal dynamics of tumour cDC1s

16:35-17:00 Coffee Break

10.33-17.00 Cokkee

Julie Giraud (ImmunoConcEpT, Bordeaux, France)

TREM1+ CD163+ Myeloid Cells are Potent Immunosuppressive Cells and Associate

with Poor Clinical Factors in Human Hepatocellular Carcinoma

17:25-17:50

17:00-17:25

<u>∞</u>

Ido Amit (Weizmann Institute of Science, Rehovot, Israël)

The power of ONE: Immunology in the age of spatial and single cell genomics

Cocktail

18:00



Friday December 8th, 2023

8:30 Opening of the registration desk

SESSION III – Role of metabolism in the function of DCs and macrophages

Chaired by Johan Garaude & Fabien Blanchet

9:00-9:25 Rafael Argüello (Centre d'Immunologie de Marseille-Luminy, Marseille, France)

DC subsets and their metabolic dependencies: You are what you eat? or You eat what

you are?

9:25-9:50 Sophia Maschalidi (VIB Center for Inflammation Research, Ghent, Belgium)

Dendritic cells and Solute Carrier Transporters in apoptotic cell clearance and tissue

repair

9:50-10:35 <u>Selected oral presentations</u>

9:50. Vincent Flacher (*I*²*CT*, *IBMC*, *Strasbourg*, *France*)

Epidermal maintenance of Langerhans cells relies on autophagy-regulated lipid

metabolism

10:05. Stefanie Wculek (IRB, Barcelona, Spain)

Mitochondrial metabolism regulates the immunogenic responsiveness of dendritic cells

10:20 Nathalie Bendriss-Vermare (CRCL, Lyon, France)

Conventional Dendritic cells drive the generation of polyfunctional and antitumor ST2+

NK cells

10:35-11:00



Coffee Break

11:00-11:25 Evanna Mills (Dana Farber Cancer Institute, Boston, USA)

Metabolite signaling in macrophages during health and disease

11:25-11:50 Giulia Pasqual (Università degli Studi di Padova, Padova, Italy)

Dendritic cell-T cell interactions in immunity and tolerance

11:50-12:20 <u>Lunch talks by Sponsors</u>



> 11:50-12:05 Anis Larbi (Beckman Coulter)

Extracellular vesicles (EVs) in the immunobiology of dendritic cells and macrophages

CYTEK PRANSCENS THE CONVENTIONAL

> 12:05-12:20 Olivier Jaen (Cytek)

Analysis of Dendritic Cell subsets by Spectral Flow Cytometry and Imaging

12:20-14:15 LUNCH and Poster viewing

14:15-14:30 CFCD General Assembly



SESSION IV – Tissue-specific functions of DCs and macrophages

Chaired by Helena Paidassi & Vanja Sisirak

14:30-14:55 Ruth Franklin (Harvard Stem Cell Institute, Boston, USA)

Regulation of inflammatory responses by macrophages in the lung

14:55-15:20 Bart Lambrecht (VIB Center for Inflammation Research, Ghent, Belgium)

Biology of DC's and macrophages in the lung.

15:20-16:05 Selected oral presentations

15:20. Sébastien This (GCI, Montreal, Canada & CIRI, Lyon France)

Back dans les bacs: rehabilitating the contribution of cDCs subsets in the maintenance of mucosal tolerance

15:35. Fabiola Osorio (ICBM, Santiago, Chile)

Control of intestinal Th17 homeostasis by the unfolded protein response sensor IRE1 in myeloid cells

15:50. Katrina Podsypanina (INEM, Paris, France)

Toll-like receptor 9 dependent dendritic cells-NK cooperation in anti-tumor immune control

16:05-16:30



Coffee Break

16:30-16:55 Ana-Maria Lennon (Institut Curie, Paris, France)

Dendritic Cell Migration: from basics to application

16:55-17:20 Camille Bigenwald (Institut Gustave Roussy, Villejuif, France)

Senolysis in Histiocytosis

17:20 Award ceremony and concluding remarks

17:40 End of the meeting