



Barcelona BioMed Conference Immunotherapy beyond cancer. A cure for age-related diseases November 18-20, 2019

Monday, 18 November

- 8.30 Registration
- 9.00 Welcome by Francesc Posas (Institute for Research in Biomedicine, Director) and organizers

Session I: Inflammation in age-associated disorders

- 9.15 Immunometabolic regulation of healthspan Vishwa Deep Dixit, Yale School of Medicine (New Haven, CT, USA)
- 10.00 Mitochondrial control of inflammation Michael Karin, University of California San Diego (La Jolla, CA, USA)
- 10.45 <u>Short talk 1</u> Cell Immunotherapy: more than driving lymphocytes against cancer Manel Juan, Hospital Clinic (Barcelona, Spain)
- 11.05-11.35 Coffee break and poster session
- 11.35 Chronic obstructive pulmonary disease (COPD): new understanding, new opportunities Alvar Agusti, Hospital Clinic (Barcelona, Spain)
- 12.20 Mitochondrial stress and protein misrouting in rheumatoid arthritis Cornelia Weyand, Stanford Health Care (Palo Alto, CA, USA)
- 13:05 Modulating neuroinflammation to treat Parkinson's disease Ted M. Dawson, Johns Hopkins University School of Medicine (Baltimore, MD, USA)
- 13.50-15.15 Lunch (IEC courtyard)

Session 2: Immune checkpoints inhibitors beyond cancer

- 15.15 Sex specific distinctions in pulmonary fibrosis are mediated by estrogen inhibition of STAT3 signaling Wonder P. Drake, Vanderbilt University Medical Center (Nashville, TN, USA)
- 16.00 The prospect of immunotherapy to combat Alzheimer's disease and dementia Michal Schwartz, Weizmann Institute of Science (Rehovot, Israel)
- 16.45-17.15 Coffee break and poster session
- 17.15 **Endocrinopathies associated with immune checkpoint inhibitor therapy** Monica Girotra, Memorial Sloan Kettering Cancer Center (New York, USA)
- 18.00 Normal and neoplastic stem cells Irv Weissman, Stanford School of Medicine (Stanford, CA, USA)
- 18.45 End of session

Tuesday, 19 November

Session III: Systemic regulation of ageing

- 9.00 Systemic regulation of brain aging and function Tony Wyss-Coray, Stanford University School of Medicine (Stanford, California, USA)
- 9.45 Caloric restriction mimetics: anti-ageing elixirs that enhance anticancer immunosurveillance Guido Kroemer, Centre de Recherche des Cordeliers (Paris, France)
- 10.30 <u>Short talk 2</u> Systemic and local factors involved in Hutchinson-Gilford progeria syndrome Vicente Andres, National Center of Cardiovascular Research (Madrid, Spain)
- 10.50-11.20 Coffee break and poster session
- 11.20 <u>Short talk 3</u> Immunometabolic stressed T cells act as aging accelerators Maria Mittlebrunn, Center of Molecular Biology (Madrid, Spain)
- 11.40 <u>Short talk 4</u> Aged epidermal cells reprogram their daily rhythmic functions to adapt to stress in a dual manner Guiomar Solanas, Institute for Research in Biomedicine (Barcelona, Spain)
- 12.00 <u>Short talk 5</u> Oncology meets embryology. LIF in cancer, from the lab to the clinical trial Joan Seoane, Vall d'Hebron Institute of Oncology (Barcelona, Spain)

- 12.20 **Epigenetic and metabolic regulation of aging** Anne Brunet, Stanford University School of Medicine (Stanford, California, USA)
- 13.05-15.00 Lunch (IEC courtyard)

Session IV: Targeting innate immunity in age-associated disorders

- 15.00 Neutrophils driving unconventional T cells mediate resistance against tumors Sébastien Jaillon, Humanitas University (Milan, Italy)
- 15.45 **Targeting STING in senescence with small-molecule antagonists** Andrea Ablasser, EPFL (Lausanne, Switzerland)
- 16.30-17.00 Coffee break and poster session
- 17.00 <u>Short Talk 6</u> Effective cancer immunotherapy by natural mouse conventional type-1 dendritic cells bearing dead tumor antigen Stefanie K. Wculek, Spanish National Center for Cardiovascular Research (Madrid, Spain)
- 17.20 Impact of mucosal TLR5 on healthspan and longevity Kyung A. Cho, Chonnam National University Medical School (Hwasun, Korea)
- 18.05 Antiaging Therapy by Counteracting 'Retrobiome'-Induced DNA Damage and Immunosenescence Andrei Gudkov, Roswell Park Comprehensive Cancer Center (Buffalo, NY, USA)
- 18.50 End of session
- 20.30 **Speakers dinner** (Restaurant els 4 Gats, Montsió, 3)

Wednesday, 20 November

Session V: Therapeutic strategies targeting cellular senescence

- 9.00 **PD-L2 mediates immune evasion of residual tumors and damaged tissues** Manuel Serrano, Institute for Research in Biomedicine /ICREA (Barcelona, Spain)
- 9.45 A one-two punch senescence approach to cancer therapy and aging-related disorders associated to chemotherapy Andrea Alimonti, Institute of Oncology Research (Bellinzona, Switzerland)

10.30 <u>Short Talk 7</u> Introducing a humanized model of pulmonary fibrosis Federico Pietrocola, Institute for Research in Biomedicine (Barcelona, Spain)

10.50-11.20 Coffee break and poster session

- 11.20 <u>Short Talk 8</u> (i)reversible cellular senescence and T cell redirection against solid tumors Joaquin Arribas, Vall d'Hebron Institute of Oncology (Barcelona, Spain)
- 11.40 <u>Short Talk 9</u> Cellular senescence as a therapeutic strategy for cancer Manuel Collado, Health Research Institute of Santiago de Compostela (Santiago de Compostela, Galicia, Spain)
- 12.00 <u>Short Talk 10</u> Exploring the immunomodulatory role of RANK signaling pathway in breast cancer Clara Gómez, Oncobell, Bellvitge Biomedical Research Institute, IDIBELL (Barcelona, Spain)
- 12.20 **Restoring tumor suppression in advanced cancers** Scott W. Lowe, Memorial Sloan Kettering Cancer Center (New York, NY, USA)
- 13.05 Concluding remarks and end of conference