**Barcelona BioMed Conference**

**Immunotherapy beyond cancer. A cure for age-related diseases**

**November 18-20, 2019**

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**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  **Short talk 1**  
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 Short talk 2 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 Short talk 3 Immunometabolic stressed T cells act as aging accelerators
Maria Mittlebrunn, Center of Molecular Biology (Madrid, Spain)

11.40 Short talk 4 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 Short talk 5 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  Short Talk 6 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  **Short Talk 7**  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  **Short Talk 8**  (i)reversible cellular senescence and T cell redirection against solid tumors  
Joaquin Arribas, Vall d’Hebron Institute of Oncology (Barcelona, Spain)

11.40  **Short Talk 9**  Cellular senescence as a therapeutic strategy for cancer  
Manuel Collado, Health Research Institute of Santiago de Compostela (Santiago de Compostela, Galicia, Spain)

12.00  **Short Talk 10**  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**