Scientific programme

International Workshop
"Microbes & Cancer: Unravelling the Connection for Innovative Therapies"
Madrid, June 13-14, 2024
Venue: CNB Auditorium

Thursday 13th June 2024

09:00-10:00 Reception and registration.

10:00-10:10 Official Opening- Welcome and introduction
Esteban Veiga, CNB, Madrid, Spain
Luis Ángel Fernández, CNB-CSIC, Madrid, Spain
Ana Cuenda, CNB, Madrid, Spain

10:10-13:10 SESSION I - Microbiome and cancer
Chair: Luis Ángel Fernández, CNB-CSIC, Madrid, Spain

Main talks (30+10 min)

10:10-10:50 Inflammation driven cancer: Host microbe interactions
Fiona Powrie, University of Oxford, Oxford, UK.

10:50-11:30 Stress kinases in the regulation of microbiota and colon cancer
Ana Cuenda, CNB-CSIC, Madrid, Spain.

11:30-12:10 Coffee break and Poster session

12:10-12:50 Microbiota, Melatonin, and miRNAs: Novel biomarkers and predictive models for breast cancer risk and metastasis
María Isabel Queipo-Ortuño, University of Malaga, Malaga, Spain.

Short talks selected from attendees (7+3 min)

12:50-13:00 The L-phenylalanine oxidase IL4I1 induces gut and skin dysbiosis promoting melanoma development
Anna Llebaria Fabrias. Institut Cochin. Paris, France.

13:00-13:10 Microbiota metabolites in multiple myeloma progression and response to treatment
María Linares Gómez. Instituto Investigación 12 Octubre, Madrid, Spain.

13:10-14:40 Lunch and Poster session
14:40-17:20  **SESSION II - Bacterial interactions with cancer and immune cells**  
Chair: Esteban Veiga, CNB, Madrid, Spain

**Main talks (30+10)**

14:40-15:20  **Modelling Cancer-Microbe Interactions with Organoids and Organ Chips**  
Jens Puschhof, Deutsches Krebsforschungszentrum, Heidelberg, Germany.

15:20-16:00  **Long-term activation of anti-tumour innate lymphocytes after BCG-priming**  
Mar Valés-Gómez, CNB-CSIC, Madrid, Spain.

16:00-16:20  **Coffee break**

**Main talk (30+10)**

16:20-17:00  **Sex differences in immune responses to bladder cancer and urinary tract infection.**  
Matthieu Rousseau, Institut Cochin, Paris, France.

**Short talks selected from attendees (7+3)**

17:00-17:10  **Bladder fibroblasts orchestrate the inflammatory response against Bacillus Calmette-Guérin immunotherapy.**  
Víctor Manuel García Martínez. CIEMAT-Hospital 12 de Octubre-CIBERONC, Madrid, Spain.

17:10-17:20  **Integration of bacterial DNA in the genome of infected human cells: A potential source of tumorigenic mutations?**  

17:20-18:30  **Poster session and Networking refreshments**

End of the first day
09:30-12:20  **SESSION III - Engineering bacteria for cancer therapies**  
Chair: Mar Valés, CNB, Madrid, Spain

**Main talks (30+10)**

09:30-10:10  **Engineered MycoChassis to treat non-small cell lung carcinoma**  
Maria Lluch, IBB, UAB, Barcelona, Spain.

10:10-10:50  **Engineering E. coli for the targeted delivery of protein payloads to cancer cells**  
Luis Ángel Fernández, CNB-CSIC, Madrid, Spain.

10:50-11:20  **Coffee break and Poster session**

**Main talks (30+10)**

11:20-12:00  **Conditional control of bacteria cancer therapeutics**  
Jerome Bonnet, CBS CNRS, Montpellier, France.

**Short talks selected from attendees (7+3)**

12:00-12:10  **Enhancing anti-tumor bacterial therapies in vivo with smart polymeric encapsulation reducing systemic immunogenicity of probiotic E. coli**  
Quentin Boussau. Montpellier University, Montpellier, France.

12:10-12:20  **A search for BARs: engineering outer membrane proteins toward the development of Bacterial Antigen Receptors in E. coli**  
Álvaro Ceballos-Munuera. CNB-CSIC. Madrid. Spain.

12:20-13:30  **Lunch and Poster session**

13:30-16:20  **SESSION IV - Bacteria and cancer immunotherapies**  
Chair: Dr. Ana Cuenda, CNB, Madrid, Spain

**Main talks (30+10)**

13:30-14:10  **Metabolic modulation of tumors with engineered bacteria for cancer immunotherapy**  
Roger Geiger, IRB, Bellinzona, Switzerland.

14:10-14:50  **Stimulation of antitumor lung immunity by intravenous administration of the live vaccine BCG**  
Dr. Nacho Aguiló, School of Medicine, University of Zaragoza, Spain.

14:50-15:10  **Coffee break**
15:10-15:50  **Next generation of cancer immunotherapies based on bacteria-instructed lymphocytes.**
Dr. Esteban Veiga, CNB-CSIC, Madrid, Spain.

Short talks selected from attendees (7+3)

15:50-16:00  **MV130 as a new innate memory-based immunotherapy against cancer**
Luna Minute. idiPaz, Madrid, Spain.

16:00-16:10  **MORELIA study: Fecal microbiota transplantation as an immunotherapy efficacy booster in lung cancer patients**
Ana del Amo de Palacios. Hospital Universitario Ramón y Cajal, IRYCIS, Universidad de Alcalá, Madrid, Spain.

16:10-16:40  **Round table and conclusions**
"Challenges in Microbes & Cancer research"

End of the Workshop