

Non - Communicable diseases - Chairs: My Vu Diem & Edoardo Schneider

09.00-10.30 *Opening of the twenty-second ICGEB Symposium (M. Giacca)*

Special Talk - Neel Bhavesh (ICGEB, New Delhi): Towards a code for single-stranded RNA recognition (40'+5')

Sara Cappelli: Unravelling the connection between hnRNP proteins and TDP-43 loss- and gain-of-function disease models (12'+3')

Pierluigi Lesizza: Small RNA drugs for cardiac repair (12'+3')

Katarzyna Rajkowska: Modified U1 snRNAs as a novel therapeutic strategy to correct splicing defect in Familial Dysautonomia (12'+3')

10.30-11.00 **Coffee Break**

Morning session

Infectious Diseases - Chairs: Alessia De Caneva & Carla Vanessa Sarabia Vega

11.00-12.30 **Mohammad Khalid Zakaria:** The Flavivirus-induced unfolded protein response primes the antiviral interferon response (12'+3')

Abida Siddiq: Human Papillomavirus stimulates endosomal tubulation during virus infectious entry (12'+3')

Ambra Sarracino: Post-transcriptional regulation of HIV replication and latency by MATR3 (12'+3')

Gianluca Triolo: Proteomic Analysis of Merkel Cell Polyoma Virions (12'+3')

José Slon Campos: Stable ZIKV and DENV E protein dimers: a virus-free platform to develop vaccines and study complex antibody responses (12'+3')

Om Basukala: Genome editing reveals an essential role for CKII phosphorylation of HPV E7 in cervical cancer cells (12'+3')

12.30 - 14:00 **Lunch**



Infectious Diseases - Chairs: Ziva Marsetic & Tea Kocijan

14.00-15.30 **Special Talk - Dhiraj Kumar (ICGEB, New Delhi):** Expanding the depth of Mycobacterium tuberculosis mediated alteration of host physiology (40'+5')

Jyoti Rana: Role of Capsid anchor in the production of DENV and ZIKV infectious viral particles (12'+3')

Katia Rupel: All you need is light (12'+3')

Odaylin Plasencia Marquez: Emerging bacterial plant diseases in Cuba (12'+3')

15.30- 16.00 **Coffee Break**

Afternoon session

Non - Communicable diseases - Chairs: Samson Musonerimana & Guido Papa

16.00-17.30 **Binu Sasi:** Inhibition of SYK overcomes resistance to BCL-2 inhibitor venetoclax in DLBCL and CLL (12'+3')

Luca Camparini: Engineering GDF11 for cardiovascular aging and diseases (12'+3')

Nikola Holodkov: Glutamic acid metabolism alterations, causes and consequences in ALS (12'+3')

Ivana Petrovic: Promoter-proximal U1 snRNP-dependent pre-mRNA processing defects in human FVII deficiency (12'+3')

Karla-Cervantes Luevano: Role of neutrophils in Wiskott-Aldrich syndrome autoimmunity (12'+3')

Stefania Gobessi: FcmR is a novel negative regulator of the B cell receptor pathway in CLL cells (12'+3')

18.00 **ICGEB Fun Run**



ICGEB Fun Run pack available for collection (from ICGEB Reception desk)



Infectious Diseases - Yvette Kazungu & Susan Mosquito

09.00-10.30 **Special Talk - Pawan Malhotra (ICGEB, New Delhi):** Plasmodium falciparum proteases especially hemoglobinases as novel drug targets for the development of new antimalarial (40'+5')

Tea Carletti: Towards an automated fluorescence neutralization test for virus diagnosis in single cells and real-time (12'+3')

Jayashree Thatte: Regulation of HPV E6 functions by phosphorylation (12'+3')

Sree Gowrinadh Javvadi: Looking for a quorum sensing system in emerging pathogen Pseudomonas syringae pv. actinidiae (12'+3')

10.30-11.00 **Coffee Break**

Morning session

Biotechnology - Chairs: Luca Braga & Nadja Ring

11.00-12.30 **Felix Moronta Barrios:** Synthetic endophytic bacterial communities in rice (12'+3')

Veronica Battaiaola: Heterologous expression of cellulolytic enzymes for the production of second generation biofuels (12'+3')

Wendy Craig: Biosafety regulatory systems overseeing the use of GMOs in the Latin America and the Caribbean region (12'+3')

Giulia Prosdocimo: microRNAs inducing cardiac repair after myocardial infarction in pigs: an update (12'+3')

Laura de Conti: Drug Screen on an ALS cellular model, searching for a new therapeutic approach (12'+3')

Andrés Muro: Promoterless gene targeting without nucleases rescues lethality of a Crigler-Najjar syndrome mouse model (12'+3')

12.30 - 14:00 **Lunch**



Non - Communicable diseases - Chairs: Nikola Holodkov & Nina Strah

14.00-15.30 **Valentina Romano:** Point mutations in TDP 43 NTD compromise its stability, dimerization and functions (12'+3')

Giulia Maria Piperno: Actin dynamics control trafficking and function of innate immune receptors (12'+3')

Marina Bugnon Valdano: Reeping out Tau aggregates for healing brains (12'+3')

Vipin Rawat: Induction of DNA damage and homologous recombination by bilirubin (12'+3')

Consuelo Torrini: Mechanism of action of miRNAs inducing cardiac regeneration (12'+3')

Giulio Ciucci: Engineered Heart Tissues as a model for cardiac regeneration and in vitro parabiosis (12'+3')

15.30- 16.00 **Coffee Break**

Afternoon session

Non - Communicable diseases - Chairs: Erick Noe Mora Cardenas & Sanja Skaro

16.00-17.30 **Giulia Ruozzi:** Novel cardioprotective factors selected from an AAV library in vivo (12'+3')

Greta Spinelli: Studies on TDP 43 aggregate clearance and its effect in vivo (12'+3')

Elisa Goina: Hightroughput approaches for the treatment of splicing mutations in Pompe Disease (12'+3')

Ambra Cappelletto: Can the poor angiogenic capacity of heart explain the low rate of cardiac cancer and metastasis? (12'+3')

Francesca Bortolotti: In vivo functional selection identifies cardiotrophin-1 as a cardiac engraftment factor for mesenchymal stromal cells (12'+3')

Francesca Cesaratto: The degradation pathways of polypeptides associated to ribosomes stalled at the STOP-codon (12'+3')

18.30 **Inauguration of the ICGEB Teaching lab (F2 terrasse) & Symposium Party**

