

09.00-09.10 *Opening of the twenty-third ICGEB Symposium (M. Giacca)*

09.10-09.40 **Special Talk - Asif Mohammed:** Understanding Organelle Dynamics in Malaria Parasite to Identify Novel Drug Targets (20'+10') - F. Benvenuti

Omic approaches - Chairs: E. Schneider & T. Kocijan

09.40-10.30 **Cristina Bez:** Pathobiome studies of an emerging rice disease (12'+3')
Luca Braga: Dissecting the role of cardiomyocyte cytoskeleton through drug and siRNA HT screenings (12'+3')
Ambra Cappelletto: In vivo selection of factors contrasting cell invasion (12'+3')

10.30-11.00 **Coffee Break**

Morning session

Genome integrity and genome editing - Chairs: S. Cappelli & L. Camparini

11.00-12.30 **André Rosado:** An introduction to the ICGEB eLearning portfolio (12'+3')
Om Basukala: : The role of the HPV E7 CKII phospho acceptor site in malignant progression (12'+3')
Alessia De Caneva: Genome editing for liver metabolic diseases (12'+3')
Giulia Romano: Retrotransposons activation in the pathogenesis of ALS (12'+3')
Edoardo Schneider: Small RNAs for gene editing (12'+3')
Jayashree Thatte: DNA damage response regulation of Human Papillomavirus E6 oncoproteins (12'+3')

12.30 - 14.00 **Lunch**



Cell Biology - Chairs: N. Holodkov & G. Spinelli

14.00-15.30 **Francesca Paron:** Importance of C-terminal residues phosphorylation in the control of TDP-43 nucleo-cytoplasmic balance (12'+3')
Jyoti Rana: DENV and ZIKV Envelope depletion through selective targeting to Endoplasmic Reticulum-Associated Degradation pathway (12'+3')
Sara Cappelli: Analysing the interaction between hnRNP modifiers of TDP-43 Functionality within cells (12'+3')
Sanja Skaro: Structural and functional determinants of TDP-43 aggregation (12'+3')
Andrea Colliva: Cells and forces controlling angiogenesis in the adult heart (12'+3')
Hashim Ali: TRIM35 is a novel restriction factor for cardiomyocyte proliferation (12'+3')

15.30- 16.00 **Coffee Break**

Afternoon session

Biotechnology development in diagnostic and therapy - Chairs: O. Basukala & A. Cappelletto

16.00-17.30 **Erick Noe Mora Cardenas:** Serology of Flaviviruses by a novel NS1-based ELISA (12+3')
Manendra Pachauri: Nanoparticles for the in vivo delivery of pro-regenerative miRNAs to the infarcted heart (12+3')
Felix Moronta: Building bridges between the plant microbiome and food security (12+3')
Natasa Skoko: Biotechnology reDevelopment Unit (12+3')
Ambra Sarracino: Post-transcriptional regulation of HIV-1 gene expression during replication and reactivation from latency by MATR3 (12+3')

18.00 **ICGEB Fun Run**



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



09.00-09.30 **Special Talk - MK Reddy:** Engineering herbicide resistance in crop plants for effective weed management in agriculture (20'+10') - V. Venturi

Disease mechanism and cancer - S. Mosquito & G. Papa

09.30-10.30 **Nicoletta Caronni:** Loss of TIM4 on DC1 determines immune escape of lung tumors (12'+3')

Binu Sasi: SHP1 deficiency activates the B cell receptor pathway in GCB diffuse large B cell lymphoma and mediates resistance to BCL2 inhibitors (12'+3')

Suzana Aulic: A patient-centered approach for optimization of long-term TKI-based treatment of chronic myeloid leukemia (12'+3')

Vanessa Vega: Acquisition of a phospho-acceptor site in HPV E6 correlates with increased PDZ interaction potential (12'+3')

10.30-11.00 **Coffee Break**

Morning session

Drugs and Biotherapeutics - Chairs: A. De Caneva & I. Secco

11.00-12.30 **Giulia De Sabbata:** AAV-mediated liver gene therapy for ornithine transcarbamylase deficiency (12'+3')

Susan Mosquito: Studies on two promising bacterial plant probiotics (12'+3')

Irving Donadon: Therapeutic activity of Exon-specific U1 in spinal muscular atrophy (12'+3')

Luca Camparini: Role of prodomains in synthesis and bioactivity of GDF11 and GDF8 (12'+3')

Michael Rehman: Haloperidol: anti-psychotic to anti-fibrotic (12'+3')

Giulia Bortolussi: Pre-clinical studies for a gene therapy clinical trial in Crigler-Najjar syndrome patients using rAAV vector (12'+3')

12.30 - 14.00 **Lunch**



Cellular and animal disease models - Chairs: E. Mora Cárdenas & S. Skaro

14.00-15.30 **Tea Kocijan:** Genetic lineage tracing identifies different mechanisms of vessel formation in the heart and skeletal muscle (12'+3')

Nina Strah: Role of muscular tissues in the onset of ALS (12'+3')

Ilaria Secco: CycleTrack, a genetic method to visualise cardiomyocyte renewal in vivo (12'+3')

Miriam Pacetti: Factors controlling Mouse TDP-43 levels (12'+3')

Oscar R. Burrone: Zika Virus Morphogenesis (12'+3')

Nikola Holodkov: Neurotransmitter metabolic defects in the pathogenesis of ALS (12'+3')

15.30- 16.00 **Coffee Break**

Afternoon session

Viruses and Innate sensing - Chairs: M. Pacetti & C. V. Sarabia Vega

16.00-17.30 **Guido Papa:** Going viral with Reverse genetics: A lesson from Rotavirus (12'+3')

Yvette Kazungu: Viral induction of the unfolded protein response and its relationship with innate antiviral signaling (12'+3')

Tea Carletti: Priming of RIG-I dependent innate antiviral signaling by the IRE1 arm of the unfolded protein response (12'+3')

Giulia Piperno: WASp-mediated endosomal actin nucleation controls endo-lysosomal fusion and immunogenicity of DNA-immune complexes (12'+3')

Dimitar Efremov: PTPN22 is a dual regulator of B cell receptor and Toll-like receptor signaling in B1 B cells (12'+3')

Mauro Giacca: My research highlights of 30 years in ICGEB

19.30 **Symposium Party**

