

ADVISE

Antiviral DiscoVery Initiatives:
Educating Next-Gen Scientists

Workshop: Interdisciplinary Insights in Antiviral Research & Mini Symposium on Drug Development (3rd edition)

May 13th - 14th, 2025

Sala conferenze del blocco I, Cittadella Universitaria Monserrato (CA), Sardinia, Italy

AGENDA – MAY 13TH

- 9:00 am: **Participant registration**
- 9:15 am: **Introduction to the ADVISE meeting and update on the International Consortium**
Prof. Enzo Tramontano (University of Cagliari), Prof. Liang-Tzung Lin (Taipei Medical University)
- 9:30 am: **Plant-derived antiviral compounds: new tools to study coronavirus infectious cycle?**
Prof. Karin Seron (University of Lille)
- 10:00 am: **Design and development of SARS-CoV-2 3CLpro inhibitors**
Prof. Vincenzo Summa (University of Naples Federico II)
- 10:30 am: **Identification of a capsid binder that inhibits EV71 infection**
Dr. Ching-Hsuan Liu (Taipei Medical University)
- 11:00 am: **Coffee Break**
- 11:30 am: **Identification of non-nucleoside SARS-CoV-2 RdRp inhibitors blocking viral replication through high-throughput docking screening**, Dr. Paolo Malune (University of Cagliari)
- 12:00 am: **Novel Nsp13 inhibitors as potential therapeutics for human coronaviruses**,
Dr. Erica Sanna (University of Cagliari)
- 12:30 am: **Oncolytic viro-immunotherapy using measles vector for therapeutic targeting of breast adenocarcinoma**, Prof. Liang-Tzung Lin (Taipei Medical University)
- 1:00 pm: **Lunch**
- 2:30 pm: **Multi-Omics profiling to unveil cellular alterations induced by West Nile Virus infection**
Dr. Sante Scognamiglio (University of Cagliari)
- 3:00 pm: **From repositioning to drug development: design and synthesis of novel captopril inspired broad spectrum metal beta lactamase inhibitors**, Prof. Margherita Brindisi (University of Naples Federico II)
- 3:30 pm: **In vitro and in vivo anti-inflammatory effects of coumarins isolated from Magydaris pastinacea**
Prof. Filippo Cottiglia (University of Cagliari)
- 4:00 pm: **Computer-aided design of novel potential hSTING agonists**, Antonella Torre (University of Cagliari)
- 4:20 pm: **Toward the next generation of hSTING agonists: synthesis and optimization**
Alberto Deplano (University of Cagliari)
- 4:40 pm: **From bench to immunity: synthesizing potential hSTING agonists for enhanced antiviral response**
Angela Pagliaro (University of Cagliari)
- 5:00 pm: **Closing remarks**

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AGENDA – MAY 14TH

- 9:30 am: **Safe and efficient sigma1 ligand: a potential drug candidate for Multiple Sclerosis**
Prof. Patricia Melnyk (University of Lille)
- 10:00 am: **Discovering novel DYRK1A inhibitors and its impact on Alzheimer's disease**
Prof. Wei-Chun Huang Fu (Taipei Medical University)
- 10:30 am: **Investigating the potential application of the amniotic membrane and amniotic epithelial cells in ophthalmology: a focus on retinal regeneration**, Prof. Fabio Marongiu (University of Cagliari)
- 11:00 am: **Coffee Break**
- 11:30 am: **Immunosuppressive signaling in prostate cancer and development of next-generation immunotherapy**
Prof. Yen-Nien Liu (Taipei Medical University)
- 12:00 am: **Study of HERV expression in RNAseq data: a potential source of innovative biomarkers and therapeutic targets**, Dr. Nicole Grandi (University of Cagliari)
- 12:30 am: **Harnessing phospholipid vesicles for the targeted delivery of natural molecules in human disease therapy**
Chen Yu Ju (Taipei Medical University/University of Cagliari)
- 1.00 pm: **Lunch**
- 2.30 pm: **Resensitizing HER2 to trastuzumab in pancreatic cancer: identification and biological activity of the first MUC4 peptide ligand**, Dr. Nicolas Lebegue (University of Lille)
- 3.00 pm: **Algal pigment-loaded lyotropic liquid crystalline nanoparticles: a novel approach for anticancer therapy**
Prof. Sergio Murgia (University of Cagliari)
- 3.30 pm: **Evaluation of STING agonists as potential broad spectrum RNA viruses' inhibitors**
Stefano Giunta (University of Cagliari)
- 3.50 pm: **Screening of synthetic molecules as potential STING agonists for the identification of antiviral agents active against HSV-1**, Federica Mastrolembo Barnà (University of Messina)
- 4.10 pm: **A New frontier in antibiotic resistance: harnessing PPI-FIT technology to identify NDM-1 non conventional degraders**, Emilia Cassese (University of Naples Federico II)
- 4:30 pm **Identification of specific HERV loci differentially expressed in Multiple Sclerosis patients as potential biomarkers and therapeutic targets**, Claudia Cabiddu (University of Cagliari)
- 4:50 pm: **Conclusive remarks and future perspectives**
Prof. Elias Maccioni (University of Cagliari), Prof. Liang-Tzung Lin (Taipei Medical University)