



NUCLEIC ACIDS AND NANOBIOSYSTEMS IN CANCER THERANOSTICS



INSTITUTO DO
CÂNCER
DO ESTADO DE
SÃO PAULO
OCTAVIO FREIAS DE OLIVEIRA



October 16 - 19, 2024

São Paulo - Brazil

Preliminary program

Wednesday, October 16, 2024

- 13:00-13:30 Registration
13:30-14:00 Welcome and opening remarks

HPV/mRNA vaccine

- 14:00 - 14:45 Plenary lecture
Title TBD*
Luiz Zerbini, ICGEB (South Africa)
- 14:45 - 15:30 Plenary lecture
mRNA Vaccines for the Treatment of HPV-Induced Tumors
Jamile Ramos Silva, Immunotera (Brazil)
- 15:30 - 16:00 Plenary lecture
Title TBD
Lawrence Banks, ICGEB (Italy)
- 16:00 - 16:30 Coffee break
- 16:30 - 17:15 Plenary lecture
Therapeutic cell-based vaccines against tumors induced by HPV: experimental and clinical efficacy evidences
Luis Carlos Souza Ferreira, ICB-USP (Brazil)
- 17:15 - 18:00 Keynote lecture
Title TBD
Luisa Villa, ICESP (Brazil)

Thursday, October 17, 2024

CAR T/NK cells for cancer immunotherapy

- 8:30 - 9:15 Plenary lecture
Title TBD
Martin Bonamino, INCA (Brazil)
- 9:15 - 10:00 Plenary lecture
Title TBD
Virginia Picanço e Castro, FMRP (Brazil)
- 10:00 - 10:45 Keynote lecture
Genome editing of T lymphocytes for cancer immunotherapy
Chiara Bonini, HSR (Italy)
- 10:45 - 11:15 Coffee break (posters)

Bringing novel approaches into the fold

- 11:15 - 12:00 Plenary lecture
Regulatory aspects of advanced therapies in Brazil
Renata Parca, ANVISA (Brazil)
- 12:00 - 12:45 Plenary lecture
Switching the balance between immune tolerance and surveillance to enhance antitumor response.
Marcio C Bajgelman, LNBio (Brazil)
- 12:45 - 13:45 Lunch (posters)
- 13:45 - 15:15 Oral Abstracts: Session I
- 15:15 - 15:45 Sponsor Presentation
- 15:45 - 16:15 Coffee break (posters)

Oncolytic approaches for cancer immunotherapy

- 16:15 - 17:00 Plenary lecture
Oncolysis in response to gene transfer
Bryan Strauss, ICESP (Brazil)
- 17:00 - 17:45 Plenary lecture
Title TBD
Oswaldo Podhajcer, Instituto Leloir (Argentina)
- 17:45 - 18:30 Keynote lecture
Title TBD
Marta Alonso, Navarra University Clinic (Spain)

Friday, October 18, 2024

Non-coding RNA in cancer theranostics

- 8:30 - 9:15 Plenary lecture
Title TBD
Edna Teruko Kimura, ICB-USP (Brazil)
- 9:15 - 10:00 Plenary lecture
microRNAs associated with metastasis
Patricia Pintor dos Reis, UNESP (Brazil)

- 10:00 - 10:45 Keynote lecture
Title TBD
Muthiah Manoharan, Alnylam Pharmaceuticals, Cambridge, MA (USA)
- 10:45 - 11:15 Coffee break (posters)

Dynamic platforms for cancer therapy and diagnosis: I

- 11:15 - 12:00 Plenary lecture
Introduction to RNA nano design tools
Kirill Afonin, UNCC (USA)
- 12:00 - 12:45 Plenary lecture
Immunological Properties of Nanocarriers and Nanoparticle-formulated Products: Lessons Learned from Two Decades of Preclinical Characterization at the Nanotechnology Characterization Lab
Marina Dobrovolskaia, NIH (USA)
- 12:45 - 13:45 Lunch (posters)
- 13:45 - 15:15 Oral Abstracts: Session II
- 15:15 - 15:45 Sponsor Presentation
- 15:45 - 16:15 Coffee break (posters)

Dynamic platforms for cancer therapy and diagnosis: II

- 16:15 - 17:00 Plenary lecture
Immunostimulatory Nucleic Acid Nanoparticles (NANPs) for Biomedical Applications
Afonin Kirill, UNCC (USA)
- 17:00 - 17:45 Plenary lecture
The Nanomedicine Revolution: Advances in Diagnosis and Therapy
Valtencir Zucolotto, USP IFSC (Brazil)
- 17:45 - 18:30 Keynote lecture
Title TBD
Nikolay Dokholyan, Penn State College of Medicine (USA)

Saturday, October 19, 2024

Hitting the target using nanobiosystems

- 9:00 - 9:45 Plenary lecture
Introduction to and use of extracellular vesicles
Luciana Andrade, ICESP (Brazil)
- 9:45 - 10:30 Plenary lecture
Title TBD
Maria Vitória Lopes Badra Bentley, FCFRP (Brazil)
- 10:30 - 11:00 Coffee break
- 11:00 - 11:45 Plenary lecture
Targeting mechanisms of cancer treatment resistance with miRNAs and nanostructures RNAs
Roger Chammas, ICESP (Brazil)

11:45 - 12:30 Keynote lecture
Bioengineering extracellular vesicles as therapeutic vehicles
Xandra Breakefield, Harvard/Mass Gen (USA)

12:30 - 14:00 Celebration (social event, 23rd floor, TBD)

14:00 - 18:00 Laboratory mini-courses (TBD)

*Note: All lecture titles are provisional and will be updated as plans are finalized.
TBD, to be determined.