



Wednesday, October 16, 2024

13:00-13:30 Registration

Research at ICGEB, ICESP and C2PO

Chair: Bryan Strauss, ICESP (Brazil)

13:30-13:45	Center for Translational Research in Oncology, a research hub within a total
	cancer care center
	Roger Chammas, ICESP (Brazil)
13:45-14:00	The role of ICGEB in research, training and technology transfer in
	biotechnology
	Luiz Zerbini, ICGEB (South Africa)
14:00 - 14:45	Receptor Tyrosine kinases: therapeutic targets in cancer development
	Luiz Zerbini, ICGEB (South Africa)

HPV/mRNA vaccine

Chair: Laura Sichero, ICESP (Brazil)

14:45 - 15:30 15:30 - 16:00	mRNA Vaccines for the Treatment of HPV-Induced Tumors Jamile Ramos Silva, Imunotera (Brazil) Human Papillomavirus E7: Novel targets for therapeutic intervention Lawrence Banks, ICGEB (Italy)
16:00 - 16:30	Coffee break (posters)
16:30 - 17:15	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	Prophylaxis of tumors induced by HPV Luisa Villa, ICESP (Brazil)

Thursday, October 17, 2024

CAR T/NK cells for cancer immunotherapy

Chair: Eduardo Magalhães Rego, ICESP (Brazil)

8:30 - 9:15	CAR-T cell initiatives at the Brazilian National Cancer Institute
	Martin Bonamino [#] , INCA (Brazil)
9:15 - 10:00	Manufacturing Challenges in CAR-T/NK Therapies: Ribeirao Preto Experience
	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

Chair: Bryan Strauss, ICESP (Brazil)

11:15 - 12:00	Regulatory aspects of advanced therapies in Brazil
	Renata Parca [#] , ANVISA (Brazil)
12:00 - 12:45	Keynote lecture: Oncolytic viruses for Pediatric Brain Tumors; From the
	Bench to the Bedside
	Marta Alonso [#] , Navarra University Clinic (Spain)
12:45 - 13:45	Lunch (posters)
13:45 - 14:15	Sartorius Presentation
	Chair: Fernanda Antunes, ICESP (Brazil)

14:15 - 15:15 Oral Abstracts: Session

Chair: Tharcisio Citrangulo Tortelli Junior, ICESP (Brazil)

Optical and electrochemical diagnosis using an epigenetic biomarker of breast cancer

Marlone Love Tchouptang Njiyip et al (Camaroon/Brazil)

WT1-5 rotavirus infects and induces death of tumor cells in vitro and in vivo Haceneth Shantall Prieto Rodríguez et al (Colombia)

Development of a platform for gamma-delta T cell expansion and evaluation of cytotoxicity against tumor cells

Mateus da Silva Matias Antunes et al (Brazil)

TCR-depleted anti-GD2 'universal' CAR-T allogeneic product exerts antitumoral activity against glioblastoma cells *in vitro*

Karolina Santos Esteves et al (Brazil)

15:15 – 15:45 **Co-Expression of cJUN Enhances CRISPR Knock-In anti-B7H3 CAR T-cell Function for Small Cell Lung Cancer Treatment**

Hyatt Balke-Want, MaxCyte (Germany) Chair: Fernanda Antunes, ICESP (Brazil)

15:45 - 16:15 Coffee break (posters)

Oncolytic approaches for cancer immunotherapy

Chair: Kirill Afonin, UNCC (USA)

16:15 - 17:00	Switching the balance between immune tolerance and surveillance to
	enhance antitumor response
	Marcio C Bajgelman, LNBio (Brazil)
17:00 – 17:45	The difficult path to the clinic of a tumor stroma-targeted, TME-responsive,
	oncolytic virus
	Osvaldo Podhajcer#, Instituto Leloir (Argentina)
17:45 - 18:30	Oncolysis in response to gene transfer

Friday, October 18, 2024

Non-coding RNA in cancer theranostics

Bryan Strauss, ICESP (Brazil)

Chair: Luciana Andrade, ICESP (Brazil)

8:30 - 9:15	Molecular pathway of radioiodine as a theranostic in thyroid cancer
	Edna Teruko Kimura, ICB-USP (Brazil)
9:15 - 10:00	microRNAs associated with metastasis
	Patricia Pintor dos Reis, UNESP (Brazil)
10:00 - 10:45	Keynote lecture: Living in the World of RNA Medicine
	Muthiah Manoharan, Alnylam Pharmaceuticals, Cambridge, MA (USA)
10:45 - 11:15	Coffee break (posters)

Dynamic platforms for cancer therapy and diagnosis: I

Chair: Renata Saito, ICESP (Brazil)

11:15 - 12:00 12:00 - 12:45	Introduction to RNA nano design tools Kirill Afonin, UNCC (USA) 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 – 14:00	Promega Presentation Chair: Fernanda Antunes, ICESP (Brazil)

14:00- 15:00 Oral Abstracts: Session II

Chair: Alexis Murillo Carrasco, ICESP (Brazil)

Cell membrane-functionalized nanoparticles containing imatinib for chronic myeloid leukemia therapy

Flávia Langellotti Silva et al (Brazil)

Enhancing Raman spectroscopy for improved characterization of extracellular vesicles in cancer biology

Marco Lazaro de Sousa Batista et al (Brazil)

Tailoring Amphiphilic Nanocarriers from Low Molecular Weight Chitosan for Effective Gene Therapy

Gabriel José De Carli et al (Brazil)

Down-modulation of MHC-I in tumor cells by bacterial RNA: a possible therapeutic strategy

Agustina Serafino et al (Argentina)

15:00 – 15:30 Sartorius Presentation

Chair: Fernanda Antunes, ICESP (Brazil)

15:30 - 16:00 Coffee break (posters)

Dynamic platforms for cancer therapy and diagnosis: II

Chair: Andreia Otake, ICESP (Brazil)

16:00 – 16:45 Immunostimulatory Nucleic Acid Nanoparticles (NANPs) for Biomedical Applications

Afonin Kirill, UNCC (USA)

16:45 – 17:30 Targeting mechanisms of cancer treatment resistance with miRNAs and nanostructures RNAs

Roger Chammas, ICESP (Brazil)

17:30 – 18:15 Keynote lecture: NanoComputing Agents: Hacking Cellular Behavior

Nikolay Dokholyan, Penn State College of Medicine (USA)

Saturday, October 19, 2024

Hitting the target using nanobiosystems

Chair: Roger Chammas, ICESP (Brazil)

8:30 – 9:15 Introduction to and use of extracellular vesicles

Luciana Andrade, ICESP (Brazil)

9:15 - 10:00 Anticoagulant RNA-DNA biomolecular platform for the management

of cancer-associated thrombosis

Renata de Freitas Saito, ICESP (Brazil)

10:00 – 10:30	Cytiva Presentation Chair: Fernanda Antunes, ICESP (Brazil)
10:30 - 11:00	Coffee break (posters)
11:00 - 11:45	The Nanomedicine Revolution: Advances in Diagnosis and Therapy
	Valtencir Zucolotto, USP IFSC (Brazil)
11:45 - 12:30	Keynote lecture: Bioengineering extracellular vesicles as therapeutic vehicles Xandra Breakefield [#] , Harvard/Mass Gen (USA)
12:30 - 12:45	Closing Ceremony and Awards Presentation
12:45 - 14:00	Closing event reception
14:00 - 18:00	Laboratory workshops

^{*}Note: All lecture titles are provisionary and will be updated as plans are finalized.

TBD, to be determined.

Coffee breaks are included with registration. Drinks/snacks will be provided.

Lunches are included with registration. Meals, including vegan and gluten free options, will be provided.

^{*}Note: This presentation will be made remotely.