

THE RESEARCH GATE
CONFERENCES



II INTERNATIONAL CONFERENCE ON

CANCER RESEARCH & NUCLEIC ACIDS 2022

"EMERGING NANOTECHNOLOGIES AND NANOMEDICINES IN CANCER THERAPY"

NOVEMBER 3-5, 2022; MIAMI, FL, USA

VENUE: HOLIDAY INN MIAMI BEACH-OCEANFRONT, AN IHG HOTEL

ORGANIZING COMMITTEE:



Dr. Myron R. Szewczuk
Professor of Immunology
Queen's University, Canada



Dr. Jean-Yves Masson
Professor, Laval University
Research Center, Canada



Dr. Samer Hussein
Asst. Professor, Laval University
Research Center, Canada

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1910 Pacific Ave., 5080, Dallas, TX, USA 75201

Call/WhatsApp : +1 (407) 881-1718

cancerscience@theresearchgate.com

CRNA2022@theresearchgate.com

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CANCER RESEARCH & NUCLEIC ACIDS 2022

NOVEMBER 3-5, 2022; HOLIDAY INN MIAMI BEACH-OCEANFRONT, AN IHG HOTEL, MIAMI, FL, USA.

KEY DISCUSSIONS & INSIGHTS

SESSION 1: ENGINEERING NANOPARTICLES

- Nanoparticles for Bio-Medical Applications a) Overcoming Tissue Barriers: drug delivery; stimuli-responsive; cancer; biological barriers b) Diagnostics, Imaging, and Therapeutics c) Biostability and Cytotoxicity: nanocarbons; nanometals; quantum dots; etc.
- Nanoparticles for Sensing a) Molecular Recognition b) Machine-Learning Identification of Sensing.
- Advances in Nanofabrication and Nanomanufacturing a) Multifunctional Carbon- and Gold-Based Nanocomposites b) Nanomaterials Derived from Metals and Quantum Dots c) Green Chemistry for Nanoparticle Synthesis.
- New Frontiers in Functional Nanomaterials.
- Advanced Mechanical Modeling of Nanomaterials and Nanostructures.
- Health-related Risk Analysis and Assessment of Nanomaterials.

SESSION 2: POLYMERS, LIPOSOMES, MICELLES AND PLGA

- Cancer nanobiotechnology.
- Theranostic Polymeric Nanostructures.
- Lung Cancer: Chemotherapy Based on Pulmonary Nano-Delivery.
- Mannosylated Liposomes for Drug-Resistant Colon Cancer Therapy.
- Drug-Loaded Liposomes and Polymeric Micelles.
- PLGA Nanoparticles for Intracellular Delivery and Controlled Drug Release.
- Pickering Drug Emulsions.

SESSION 3: YOUNG RESEARCH FORUM: TRAINEE ORAL PRESENTATIONS

SESSION 4: CANCER GENE EDITING AND NUCLEIC ACID

- Advances in Peptide Nucleic Acid for Cancer Bio-Nanotechnology.
- Therapeutic Gene Editing: Delivery and Regulatory Targeting.
- Engineering Exosomes as Cancer Nanoplatfoms for Drug Delivery.

SESSION 5: ADVANCES IN NANOFABRICATION AND NANOMANUFACTURING

- Multifunctional Carbon- and Gold-Based Nanocomposites.
- Nanomaterials Derived from Metals and Quantum Dots.
- Green Chemistry for Nanoparticle Synthesis.
- Tailoring Surface Chemistry for Biomedical Applications.
- Glyco-nanomaterials and Their Applications.

SESSION 6: WORKSHOP ON CAREER DEVELOPMENT, GRANTSMANSHIP AND SCHOLARSHIP



For speaker opportunity or to present an E-Poster
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