

VIRTUAL CONFERENCE

CANCER RESEARCH & NUCLEIC ACIDS 2021

March 11-12, 2021

THE RESEARCH GATE CONFERENCES



8h15 - 13h30 EST (11th)
9h - 15h EST (12th)



Organizing Committee



Dr. Myron R. Szewczuk
Chair & Moderator



Dr. Jean-Yves Masson
Chair & Moderator



Dr. Samer Hussein
Chair & Moderator

The Research Gate Conferences
E: cancerscience@theresearchgate.com
P: +1 (407) 881 1718;
1910 Pacific Ave., 5080, Dallas, Texas, USA

<https://theresearchgate.com/conferences/cancer-research-nucleic-acids-2021/>



CANCER RESEARCH & NUCLEIC ACIDS 2021

MARCH 11-12, 2021 8h15-15h EST (11th) & 9h-15h EST (12th)

Theme: Next Generation Multimodality of Nanomedicine Therapy: From smart targets, models and gene alterations

The Research Gate welcomes all to the [INTERNATIONAL CONFERENCE ON CANCER RESEARCH & NUCLEIC ACIDS 2021](#) which will be held virtually on [March 11-12, 2021](#). Cancer is a complex disease, and this virtual conference will bring together diverse researchers studying cancer biology, the mechanisms that protect the human genome, and therapeutic targets to combat this devastating disease. In normal cells, a variety of DNA repair pathways are used to protect the genome against different types of DNA damage. Defects in DNA damage repair and checkpoint control are among the underlying mechanisms driving tumorigenesis since they allow for the accumulation of genetic mutations. This creates vulnerabilities in cancer cells that can be targeted by DNA damaging agents and inhibitors. The conference will also promote discussions on understanding tumor evolution and therapeutic responses through state-of-the-art scientific and clinical approaches.

Scientific Agenda

March 11, 2021 : Day 1

08:15 - 08:20 EST Greetings & Introduction

08:20 - 08:30 EST Welcome Message by Dr. Jean-Yves Masson (Chair & Moderator)



SESSION 1 : Mutations, genome instability and therapeutic approaches

08:30 - 09:00 EST



08:30 - 09:00 EST / March 11, 2021

Dr. Serena Nik-Zainal

CRUK Advanced Clinician Scientist, Honorary Consultant in Clinical Genetics, University of Cambridge, United Kingdom

"Harnessing the value of whole genome sequencing in human cancers"

09:00 - 09:30 EST



09:00 - 09:30 EST / March 11, 2021

Dr. Mukesh Verma

Program Director, Epidemiology & Genomics Research Program National Cancer Institute, NIH, USA

"Mutagenesis: Genetic and epigenetic alterations of recipient cancer cells"

09:30 - 09:50 EST



09:30 - 09:50 EST / March 11, 2021

Dr. Karen M. Vasquez

Head, Division of Pharmacology and Toxicology The University of Texas, USA

"Novel mechanisms of genetic instability in cancer"

09:50 - 10:10 EST



09:50 - 10:10 EST / March 11, 2021

Dr. John Turchi

Professor of Lung Cancer Research Indiana University School of Medicine, USA

"Discovery and development of Ku-targeted small molecule inhibitors: A novel mechanism of DNA-PK inhibition"



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March 11, 2021: Day 1 Continued.....

10:10-10:30 EST



10:10 - 10:30 EST / March 11, 2021

Dr. Helen E. Bryant

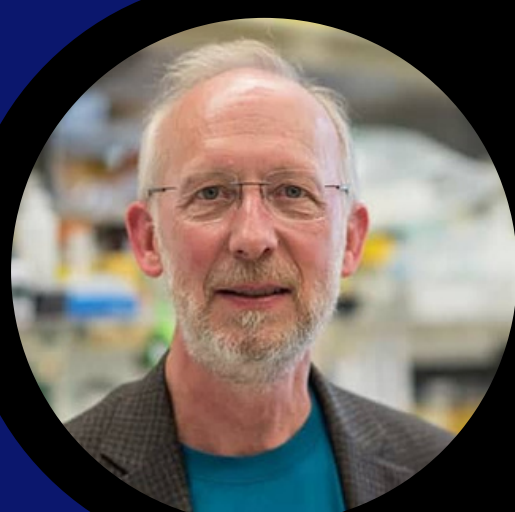
Senior Lecturer, Dept. of Oncology & Metabolism,
Sheffield Institute for Nucleic Acids, United Kingdom

"PARC inhibition: similarities and differences with PARP"

10:30 - 10:45 EST

Coffee Break

10:45 - 11:15 EST



10:45 - 11:15 EST / March 11, 2021

Dr. Don W. Cleveland

Distinguished Professor Of Cellular and Molecular Medicine,
Neurosciences Member, Ludwig Institute for Cancer Research, USA

"Chromothripsis drives the evolution of gene amplification
in cancer"



SESSION 2 : Novel Cancer Models: Stem Cells, Single Cells, Organoids

Chair & Moderator: Dr. Samer Hussein

11:15 - 11:35 EST



11:15 - 11:35 EST / March 11, 2021

Dr. Veronique Giroux

Assistant Professor at Université de Sherbrooke, Canada

"Exploiting organoid models to study stem cell biology in
digestive cancers"

11:35 - 11:55 EST



11:35 - 11:55 EST / March 11, 2021

Dr. Kristin Hope

Associate Professor in the Dept. of Medical Biophysics at the
University of Toronto, Canada

"Uncovering post-transcriptional circuitries governing stem
cell function in the blood system"

11:55 - 12:15 EST



11:55 - 12:15 EST / March 11, 2021

Dr. Jean-Yves Masson

Professor, Laval University Research Center, Canada

"Regulation of DNA double-strand break repair and
functional impact of cancer mutations"

Continued in next page.....

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12:15 - 12:30 EST



12:15 - 12:30 EST / March 11, 2021

Dr. Seongmin Lee

Associate Professor, The University of Texas at Austin, USA

"Mismatch recognition and removal mechanisms of tumor suppressor protein MBD4"

12.30 -13:30 EST

E-Posters by Larissa Milano, Gemma Montalban, Adèle Beneyton

****Day 1 Closing Notes****

March 12, 2021 : Day 2

09:00 - 09:15 EST

Introduction by the Chair, Dr. Cecile Malardier-Jugroot



SESSION 3: Neoadjuvant and Nanomedicine for Cancer Treatment

09:15 - 09:45 EST



09:15 - 09:45 EST / March 12, 2021

Dr. Clare Hoskins

Reader at University of Strathclyde, United Kingdom

"Nano-ninja programming for Pancreatic Cancer Therapy"

09:45 - 10:15 EST



09:45 - 10:15 EST / March 12, 2021

Dr. Sirin A Adham

Associate Professor at Sultan Qaboos University, Oman

"A new correlation between Neuropilin-1 levels and Breast Cancer Response to Neoadjuvant Chemotherapy: Bed to Bench Data"

10:15 - 10:30 EST

Coffee Break

10:30 - 11:00 EST



10:30 - 11:00 EST / March 12, 2021

Dr. Oara Neumann

Research Scientist, Rice University, USA

"Near-Infrared Nanostructures Assisted Imaging, Targeting Drug Delivery, and Photothermal Therapy"

11:00 - 11:30 EST



11:00 - 11:30 EST / March 12, 2021

Dr. Subbaya Subramanian

Associate Professor Department of Surgery
University of Minnesota, USA

"Novel therapies for colorectal cancer"



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March 12, 2021: Day 2 Continued.....



SESSION 4 : Smart Targets and Multimodality of Cancer Therapy

Chair & Moderator : Dr. Jean-Yves Masson/ Dr. Samer Hussein

11:30 - 12:00 EST



11:30 - 12:00 EST / March 12, 2021

Dr. Cecile Malardier-Jugroot

Professor of Chemistry & Chemical Engineering and
VP Research, Royal Military College of Canada, Canada

"Development of novel smart materials for a stimuli
responsive and active drug delivery in the treatment of
breast and prostate cancer"

12:00 - 12:30 EST



12:00 - 12:30 EST / March 12, 2021

Dr. Myron R. Szewczuk

Professor of Immunology, Queen's University, Canada

"Targeting multistage tumorigenesis in triple-negative
breast cancer"

12:30 - 13:30 EST

Lunch Break

13:30 - 14:00 EST



13:30 - 14:00 EST / March 12, 2021

Dr. Anna Blenda

Associate Professor

Biochemistry Department of Biomedical Sciences, USA

"Glycobiology and Genomic Applications in
Characterization of Cancer Patient Biorepository"



E-POSTERS PRESENTATION SESSION

Session Moderator : Dr. Samer Hussein & Dr. Sofiane Y. Mersaoui

14.00 -14:30 EST

E-Poster 1 : Avery Funkhouser

E-Poster 2 : Dr. Gopi Krishna Moku

E-Poster 3 : Abdelaziz Ghanemi

14:30 - 15:00 EST

SPEAKERS OPEN DISCUSSION FORUM

****** VALEDICTORY SESSION ******

Conference Secretariat

Cancer Science & Nucleic Acids 2021 Virtual

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