

**VII International Workshop on Nitric Oxide and Cancer: Special Focus on
the Tumour Miroenvironment
Galway (Virtual), May 27-28, 2021**



Final Program

May 27th

05:00(Los Angeles)/08:00(New York)/ 13:00(Galway) /14:00(Paris)	
12:30-13:00	Virtual Conference Joining
13:00 (Galway)	Conference Start Time 5AM California; 7AM Texas; 8AM NY; 2PM Central Europe
13:00-13:15	<i>Welcome</i> Sharon Glynn and ISNOC executive committee
SESSION 1	Title: Nitric Oxide Regulation of Tumour Progression Chairs: Khosrow Kashfi
13:15-13:40	Veena Somasundaram, National Cancer Institute, USA Inhibition of nitric oxide synthase and cyclooxygenase potentiate immune responses that control aggressive mammary tumor in the 4T1 murine mode
13:40-14:05	Melanie Flint, University of Brighton, UK Stress, nitric oxide and cancer
14:05-14:30	Doug Thomas, University of Illinois at Chicago Nitric oxide regulation of epigenetic programming in cancer
14:30-14:40	Short Talk - S-Nitrosoglutathione Reductase (GSNOR) as a new molecular determinant of chronic neuropathic pain. <i>Costanza Montagna, University Of Rome Tor Vergata.</i>
14:40-14:50	Short Talk - Antitumor effect of GTN +/- doxorubicin in triple negative breast cancer: involvement of the immune system. <i>Nesrine Mabrouk, University of Burgundy - EPHE PSL.</i>

14:50-15:20	<i>Breakfast/Coffee break/Lunch & Poster Viewing</i>
SESSION 2	Title: ISNOC Lifetime Achievement Award Chairs: Sharon Glynn
15:20 (Galway)	7.20AM California; 9.20AM Texas; 10.20AM NY; 4.20PM Central Europe
15:20-15:35	<i>Opening Session</i> David Wink and Douglas Thomas Timeline of NO and Cancer through the ages
15:35-16:15	<i>Lifetime Achievement Award</i> Introduction: David Wink and Douglas Thomas <i>Lifetime Achievement Award Presentation to:</i> Jack Lancaster, University of Pittsburg, USA
16:15 – 17:00	Lunch/Dinner
SESSION 3	Title: Harnessing Nitric Oxide and Inflammation for Targeting Cancer Chairs: Jordi Muntané
17:00 (Galway)	9AM California; 11AM Texas; 12PM NY; 6PM Central Europe
17:00-17:25	Celine Marmion, Royal College of Surgeons Ireland Hydroxamate drugs are NO donors – is NO news good news?
17:25-17:50	Perwez Hussain, National Cancer Institute, USA NO induced metabolic signaling enhances disease aggressiveness in Pancreatic Cancer.
17:50-18:15	Lisa Ridnour, National Cancer Institute, USA Adjuvant COX Inhibition Increases CD8 T Cells and Improves Survival in Irradiated ER- 4T1 Tumors: Are NSAIDs a New Class of Immune Checkpoint Inhibitors?
18:15-18:25	Short Talk - Myoglobin decreases nitric oxide bioavailability to attenuate breast cancer cell proliferation. <i>Aaron Johnson, University Of Pittsburg.</i>
18:25-18:35	Short Talk - NO traffic in cancer: Role of nitric oxide in starvation-induced autophagy. <i>Paola Giglio, University Of Rome Tor Vergata.</i>
18:35-19:00	<i>Coffee break & poster voting</i>
SESSION 4	Title: Harnessing Nitric Oxide Pathways for Therapeutic Development

19:00 (Galway)	Chairs: Valentina Rapozzi 11AM California; 1PM Texas; 2PM NY; 8PM Central Europe
19:00-19:25	Dennis Stuehr, Lerner Research Institute, Cleveland Clinic, USA Hemeproteins and their relationships to cancer
19:25-19:50	Greta Varchi, Institute of Organic Synthesis and Photoreactivity (ISOF), Italy Nitric Oxide Photodonor Hybrids of Ciprofloxacin and Norfloxacin: from Antimicrobial to Anticancer Agents
19:50-20:15	Amir Abdo, National University of Ireland Galway, Ireland Iron(III)-Porphyrin Complexes as Potential Nitric Oxide-Scavengers
20:30-22:00	Social Hour Online – Murder Mystery Session

May 28th

12:30-13:00	Virtual Conference Joining
13:00 (Galway)	Conference Start Time 5AM California; 7AM Texas; 8AM NY; 2PM Central Europe
SESSION 5	Novel Aspects of Nitric Oxide in Cancer Chairs: Giuseppe Filomeni
13:00-13:25	Stéphanie Plenchette, University of Burgundy - EPHE PSL, France Migration, invasion and metastasis of triple-negative breast cancer cells: the potential benefit of glyceryl trinitrate.
13:25-13:50	Emma Creagh, Trinity College Dublin, Ireland Inflammatory Caspases & NO in Cancer
13:50-14:15	Valentina Rapozzi, University of Udine, Italy Role of nitric oxide in the photooxidative response of cancer cells
14:15-14:35	Short talk - Chronic Nitric Oxide Exposure Promotes Tumorigenic Potential In Prostate Cancer Cells in vitro. <i>Jake McAuliffe, National University of Ireland Galway.</i>
14:15-14:35	Short talk - TRAP1 regulation by NO and ROS highlight its potential role as a mitochondrial redox sensor. <i>Fiorella Faienza, University Of Rome Tor Vergata.</i>

14:35-15:00	<i>Breakfast/Coffee break & Poster Viewing</i>
SESSION 6	Nitric Oxide and the Tumour Immune Compartment
15:00 Galway	Chairs: Stéphanie Plenchette 7AM California; 9AM Texas; 10AM NY; 4PM Central Europe
15:00-15:25	Aideen Ryan, National University of Ireland Galway, Ireland The role of stroma and inflammation in regulating anti-tumour immunity in colorectal cancer
15:25-15:50	Catherine Paul, University of Burgundy - EPHE PSL, France NO in the immunotherapy of cancer
15:50-16:15	Dan McVicar, National Cancer Institute, USA Mechanisms of Nitric Oxide Control of Macrophage Reprogramming
16:15-16:25	Short talk - NOS2 expression, NO release, and metabolic phenotype vary along hypoxic gradients in an in vitro tumor microenvironment. <i>Will Heinz, National Cancer Institute.</i>
16:25-16:35	Short talk - Glucose and oleic acid supplementation increase the glycolytic reactivation and cell survival risk in liver tumor cells treated with Sorafenib. <i>Elena Navarro, Institute Of Biomedicine Of Seville.</i>
16:35-17:30	<i>Lunch/Dinner</i>
SESSION 7	Clinical Implications of Nitric Oxide and/Or Aberrant Redox in the Tumour Microenvironment
17:30 Galway	Chairs: Benjamin Bonavida. 9.30AM California; 11.30AM Texas; 12.30AM NY; 6.30PM Central Europe
17:30-17:55	Emma Kerr, Queens University Belfast, UK Immunometabolism regulation in K-ras driven colorectal cancer
17:55-18:20	Stefan Ambs, National Cancer Institute, USA Impact of diabetes on metabolism, redox signaling and mutational burden in breast tumors
18:20-18:45	Jenny Chang, Houston Methodist Hospital, USA NO in Triple Negative Breast Cancer
18:45-19:10	Tim Billiar, University of Pittsburg Medical Center, USA

	Liver Cancer Stem Cells and NO
19:10-19:30	<i>Coffee & Poster Viewing</i>
SESSION 8	NO – The Great Debate – Dilemmas in the NO Field Chairs: Sharon Glynn and Salvatore Rizza
19:30PM	11.30AM California; 1.30PM Texas; 2.30PM NY; 20.30PM Central Europe
19:30-19:35	Dilemma 1
19:35-19:50	Breakout Session for Dilemma 1
19:50-20:00	Dilemma 1 – Your Solutions
20:00-20:05	Dilemma 2
20:05-20:20	Breakout Session for Dilemma 2
20:20-20:30	Dilemma 2 – Your Solutions

20:30-20:45 **Concluding remarks & Poster Prize Announcements. Sharon Glynn.**

20:45-21:45 **Social Hour Zoom Style – BYOB**