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## PROGRAM

Friday, May 31

08:00 Registration & Breakfast  
*Atrium*

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08:25 Welcome  
*Charles Graham and Robert Siemens*

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08:30 Day 1 Opening Remarks  
*Michael Adams, Head of the Department of Biomedical and Molecular Sciences, Queen's University*

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08:45 NO-mediated targeting both EMT and cancer stem/initiating cells: inhibition of metastases and drug resistance  
*Benjamin Bonavida*

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09:15 NO improves the photodynamic therapy in prostate cancer cells  
*Valentina Rapozzi*

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09:45 NOSH—aspirin for treatment of cancer  
*Khosrow Kashfi*

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10:15 Coffee Break  
*Atrium*

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10:45 NO is an epigenetic regulatory molecule in breast cancer cells: the role of non-heme iron enzymes  
*Douglas Thomas*

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11:15 NO-dependent stimulation of genetic instability and its role in anti-cancer therapy  
*Vasily Yakovlev*

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11:45 Diverse role of nitric oxide in tumor progression  
*Peeyush Lala*

12:15 Lunch  
*Atrium*

13:30 Hepato-carcinogenesis driven by GSNOR deficiency prevented by iNOS inhibition  
*Limin Liu*

14:00 Peptide targeted delivery of nitric oxide for the treatment of glioblastoma multiforme  
*Shahana Safdar*

14:30 The NO/cGMP pathway in cancer drug discovery  
*Greg Thatcher*

15:00 Mitochondrial dynamics in cancer - a new therapeutic target?  
*Special Guest Speaker – Stephen Archer, Head of the Department of Medicine, Queen’s University*

15:30 Coffee Break  
*Atrium*

16:00 NO/cGMP signaling modulation and selective estrogen receptor modulators attenuate estrogen-induced malignant transformation in human breast epithelial cells  
*Hitisha Patel*

16:15 Cyclooxygenase-2 mediated breast cancer progression: induction of stem like cells and specific microRNAs  
*Mousami Majumbar*

16:30 The role of microRNA 526b in cyclo-oxygenase-2 mediated induction of cancer stem cell phenotype via EP4 receptor activation  
*Erin Landman*

16:45 Dinitoryliron complexes are a function product of nitrite reduction  
*Jason Hickok*

17:00 RRx-001, a hypoxia-activated, nitric oxide generating cytotoxic agent: Phase 1 study results  
*Jan Scicinski*

17:15 Day 1 Closing Remarks  
*Charles Graham and Robert Siemens*

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18:15 Shuttle departs School of Medicine Building

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18:30 Dinner  
*Fort Henry*

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## Saturday, June 1

08:30 Day 2 Opening Remarks  
*Charles Graham and Robert Siemens*

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08:45 JS-K and analogs. Progress toward clinical application  
*Larry Keefer*

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09:15 Targeting eNOS in oncogenic Ras-driven cancers  
*Chris Counter*

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09:45 Targeting and Tackling Hypoxia Induced Tumour Cell  
Plasticity: Could Nitric Oxide be the Answer?  
*Lynne Postovit*

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10:15 Coffee Break  
*Atrium*

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10:45 Targeting hepatoma using nitric oxide-based strategies  
*Jordi Muntane*

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11:15 NO mediated-inhibition of hypoxia-induced malignant  
phenotypes  
*Charles Graham*

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11:45 **The oncogenic properties of nitrosation in ER $\alpha$  (-) breast**  
cancer  
*Julie Heinecke*

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12:15 Lunch  
*Atrium*

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13:30 Nitric oxide, cancer and coagulation  
*Maha Othman*

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14:00 Modulation of nitric oxide signalling as a potential  
therapeutic application in prostate cancer  
*Robert Siemens*

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14:30 Nitric oxide mimcis transcriptional and post-translational  
regulation during alpha-tocopherol cytoprotection against  
glycochenodeoxycholate-induced cell death in hepatocytes  
*Raul Gonzalez*

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14:45 Induction of NOS2 in breast cancer and its regulation of poor prognosis indicators

*Julie Heinecke*

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15:00 Coffee Break

*Atrium*

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15:30 Nitric oxide-releasing poly-[ADP-ribose]-polymerase inhibitors targeted to glutathione S-transferase P1-overexpressing cancer cells

*Anna Maciag*

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15:45 Thiol modification and signal transduction by O<sub>2</sub>-arylated diazeniumdiolates

*Ryan Holland*

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16:00 Nitric oxide-mediated inhibition of hypoxia-induced escape from adaptive immunity in tumour cells

*Ivraym Barsoum*

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16:15 The effects of phosphorylation and s-nitrosylation on neutral sphingomyelinase activity

*Bei Lei Sun & Milica Krstic*

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16:30 Day 2 Closing Remarks

*Charles Graham and Robert Siemens*

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17:15 Shuttle departs School of Medicine Building

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17:30 Boat cruise & awards

*Food and drinks provided*

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20:00 Principal Investigators Dinner

*Casa Domenico*

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WHEN

May 31 - June 1, 2013

WHERE

New Medical Building  
Queen's University  
15 Arch Street  
Kingston, ON, Canada



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Health Sciences



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