



Ecole Pratique des Hautes Etudes
INSERM, University of Burgundy



UCLA
Jonsson Comprehensive Cancer Center

First International Conference on Nitrosylation In Oncology and Immunology

February 2-3, 2012
Dijon, France

Jean-François Jeannin
Ecole Pratique des Hautes Etudes
INSERM
University of Burgundy

Benjamin Bonavida
Jonsson Comprehensive Cancer Center
David Geffen School of Medicine
University of California at Los Angeles

SPEAKERS

BENHAR Moran - *Israel Institute of Technology, Haifa, Israel*
BONAVIDA Benjamin - *University of California, Los Angeles, USA*
CHEN Yu-Ju - *Institute of Chemistry, Academia Sinica, Taiwan*
GASTON Benjamin - *University of Virginia, Charlottesville, USA*
GRATTON Jean-Philippe - *Université de Montreal, Montreal, Canada*
ISCHIROPOULOS Harry - *University of Pennsylvania, Philadelphia, USA*
KASHFI Khosrow - *University of New York, New York, USA*
KEEFER Larry - *National Cancer Institute, Frederick, Maryland, USA*
LANCASTER Jack - *University of Alabama, Birmingham, USA*
LEON Lissbeth - *Ecole Pratique des Hautes Etudes, Dijon, France*
LIU Limin - *University of California, San Francisco, USA*
MARSHALL Harvey - *Duke University, Durham, USA*
MARTINEZ-RUIZ Antonio - *Instituto de Investigación Sanitaria Princesa, Madrid, Spain*
MONTEIRO Hugo - *Universidade Federal de São Paulo, São Paulo, Brazil*
MUTUS Bulent - *University of Windsor, Windsor, Canada*
RAO Chinthalapally - *University of Oklahoma, Oklahoma, USA*
ROJANASAKUL Yon - *West Virginia University, Morgantown, USA*
WINK David - *National Cancer Institute, Bethesda, USA*

CHAIRS

BETTAIEB Ali - *Ecole Pratique des Hautes Etudes, Dijon, France*
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PROGRAM

New NO donors and S-nitrosylation

KASHFI Khosrow - *University of New York, New York, USA*

Nitric oxide-releasing hybrid drugs target cellular processes through S-nitrosylation

KEEFER Larry - *National Cancer Institute, Frederick, Maryland, USA*

Thiol modification by pharmacologically active agents of the diazeniumdiolate class

S-nitrosylation, molecular targets, structural and functional effects

ISCHIROPOULOS Harry - *University of Pennsylvania, Philadelphia, USA*

Structural and functional diversity of protein S-nitrosylation

BENHAR Moran - *Israel Institute of Technology, Haifa, Israel*

Proteomic strategies for identifying S-nitrosylated targets of thioredoxin

MUTUS Bulent - *University of Windsor, Windsor, Canada*

Does S-nitrosylation of neutral sphingomyelinase control plasma membrane cholesterol in cancer cells?

CHEN Yu-Ju - *Institute of Chemistry, Academia Sinica, Taiwan*

Decoding the Personalized Tissue S-Nitrosoproteome in Human Colorectal Cancer

S-nitrosylation, epithelial to mesenchymal transition and tumor cell death

LEON Lissbeth - *Ecole Pratique des Hautes Etudes, Dijon, France*

GTN sensitises tumor cells to apoptosis: implication of S-nitrosylation

ROJANASAKUL Yon - *West Virginia University, Morgantown, USA*

S-Nitrosylation of Caveolin-1 Regulates Lung Carcinoma Cell Anoikis

BONAVIDA Benjamin - *University of California, Los Angeles, USA*

Inhibition of Epithelial to Mesenchymal Transition (EMT) in Cancer by NO: Pivotal Roles of Nitrosylation of NF- κ B, YY1 and Snail

S-nitrosylation, mutagenesis, carcinogenesis, tumor promotion and tumor growth

LIU Limin - *University of California, San Francisco, USA*

S-nitrosylation from GSNO Deficiency Promotes Mutagenesis and Hepatocarcinogenesis

WINK David - *National Cancer Institute, Bethesda, USA*

The role of discrete levels of NO, nitrosation and iNOS in tumor promotion in Cancer

GRATTON Jean-Philippe - *Université de Montréal, Montréal, Canada*

eNOS and nitric oxide signaling at endothelial cell junctions : implications in tumor angiogenesis

MONTEIRO Hugo - *Universidade Federal de São Paulo, São Paulo, Brazil*

A role for nitric oxide and for inducible nitric oxide synthase in tumor biology

S-nitrosylation and tumor risk, prevention and therapy

GASTON Benjamin - *University of Virginia, Charlottesville, USA*

S-nitrosylation and lung cancer risk

RAO Chinthalapally - *University of Oklahoma, Oklahoma, USA*

Targeting iNOS for Cancer Prevention and Treatment: Where we stand?

S-nitrosylation in immune response

MARSHALL Harvey - *Duke University, Durham, USA*

Regulation of the Immune Response by S-nitrosylation of NF-Kappa B

MARTINEZ-RUIZ Antonio - *Instituto de Investigación Sanitaria Princesa, Madrid, Spain*

Thiol redox proteomics and S-nitrosylation in the immune synapse

Time Table

Thursday February 2, 2012

9:00 am - 9:15 am JEANNIN Jean-François – Welcome remarks

Session 1: New NO donors and S-nitrosylation

9:15 am - 10:45 am Chairs: D. Wink, J. Lancaster

9:15 am - 10:00 am KASHFI Khosrow, Nitric oxide-releasing hybrid drugs target cellular processes through S-nitrosylation

10:00 am - 10:45 am KEEFER Larry, Thiol modification by pharmacologically active agents of the diazeniumdiolate class

10:45 am - 11:00 am Coffee break

Session 2: S-nitrosylation, molecular targets, structural and functional effects

11:00 am - 4:00 pm Chairs: A. Bettaieb, Y. Rojanasakul

11:00 am - 11:45 am ISCHIROPOULOS Harry, Structural and functional diversity of protein S-nitrosylation

11:45 am - 12:30 pm BENHAR Moran, Proteomic strategies for identifying S-nitrosylated targets of thioredoxin

2:30 pm - 3:15 pm MUTUS Bulent, Does S-nitrosylation of neutral sphingomyelinase control plasma membrane cholesterol in cancer cells?

3:15 pm - 4:00 pm CHEN Yu-Ju, Decoding the Personalized Tissue S-Nitrosoproteome in Human Colorectal Cancer

4:00 pm - 4:15 pm Coffee break

Session 3: S-nitrosylation, epithelial to mesenchymal transition and tumor cell death

4:15 pm - 6:30 pm Chairs: L. Keefer, Y-J. Chen

4:15 pm - 5:00 pm LEON Lissbeth, GTN sensitises tumor cells to apoptosis: implication of S-nitrosylation

5:00 pm - 5:45 pm ROJANASAKUL Yon, S-Nitrosylation of Caveolin-1 Regulates Lung Carcinoma Cell Anoikis

5:45 pm - 6:30 pm BONAVIDA Benjamin, Inhibition of Epithelial to Mesenchymal Transition (EMT) in Cancer by NO: Pivotal Roles of Nitrosylation of NF-kB, YY1 and Snail

Friday February 3, 2012

Session 4: S-nitrosylation, mutagenesis, carcinogenesis, tumor promotion and tumor growth

9:00 am - 12:15 pm Chairs: K. Kashfi, B. Bonavida

9:00 am - 9:45 am LIU Limin, S-nitrosylation from GSNOR Deficiency Promotes Mutagenesis and Hepatocarcinogenesis

9:45 am - 10:30 am WINK David, The role of discrete levels of NO, nitrosation and iNOS in tumor promotion in Cancer

10:30 am - 10:45 am Coffee break

10:45 am - 11:30 am GRATTON Jean-Philippe, eNOS and nitric oxide signaling at endothelial cell junctions : implications in tumor angiogenesis

11:30 am - 12:15 pm MONTEIRO Hugo, A role for nitric oxide and for inducible nitric oxide synthase in tumor biology

Session 5: S-nitrosylation and tumor risk, prevention and therapy

2:15 pm - 3:45 pm Chairs: J-P. Gratton, A. Martinez-Ruiz

2:15 pm - 3:00 pm GASTON Benjamin, S-nitrosylation and lung cancer risk

3:00 pm - 3:45 pm RAO Chinthalapally, Targeting iNOS for Cancer Prevention and Treatment: Where we stand?

3:45 pm - 4:00 pm Coffee break

Session 6: S-nitrosylation in immune response

4:00 pm - 5:30 pm Chairs: L. Liu, C. Rao

4:00 pm - 4:45 pm MARSHALL Harvey, Regulation of the Immune Response by S-nitrosylation of NF-Kappa B

4:45 pm - 5:30 pm MARTINEZ-RUIZ Antonio, Thiol redox proteomics and S-nitrosylation in the immune synapse

5:30 pm - 6:00 pm LANCASTER Jack, Concluding remarks- Adjournment