

## Organizing Committee

### Co-chairs

Jordi Muntané (Spain)  
Benjamin Bonavida (USA)

### Local Organizers

Jordi Muntané (Spain)  
José López Barneo (Spain)  
Francisco J. Padillo (Spain)  
Luís Paz-Ares (Spain)  
José A. Pérez Simón (Spain)

### Invited speakers:

Dr. S. Moncada  
(University College London, London, UK)  
Dr. S.P. Hussain  
(National Cancer Institute, Bethesda, USA)  
Dr. D.A. Wink  
(National Cancer Institute, Bethesda, USA)  
Dr. V.A. Yakovlev  
(Virginia Commonwealth University, Richmond, USA)  
Dr. B. Bonavida  
(Johnson Comprehensive Cancer, University of California, Los Angeles, USA)  
Dra. S. Plenchette  
(EPHE-University of Burgundy, Dijon, France)  
Dr. G. Bauer  
(University Medical Center, Freiburg, Germany)  
Dr. J.R. Lancaster  
(University of Alabama, Birmingham, USA)  
Dr. T. R. Billiar  
(University of Pittsburgh, Pittsburg, USA)  
Dr. I. Singh  
(Medical University of South Carolina, Charleston, USA)  
Dr. B. Brüne  
(Goethe-University Frankfurt, Frankfurt, Germany)  
Dr. Ch. Counter  
(Duke University Medical Center, Durham, USA)  
Dr. A. Martínez-Ruiz  
(Hospital Universitario de La Princesa, Madrid, Spain)  
Dr. Ch.H. Graham  
(Queen's University, Canada)  
Dr. K. Kashfi  
(Sophie Davis School of Biomedical Education, New York, USA)  
Dra. M. Klink  
(Institute of Medical Biology, Lodz, Poland)  
Dr. R. González  
(Department of Biochemistry and Molecular Biology, Córdoba, Spain)  
Dr. J. Scicinski  
(EpicentRx Inc., California, USA)  
Dr. A. Aparicio  
(A Coruña University Hospital, A Coruña, Spain)  
Dra. V. Rapozzi  
(University of Udine, Udine, Italy)



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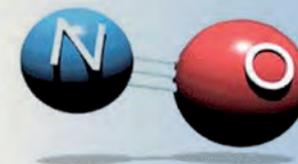
### SECRETARÍA TÉCNICA

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IV

# INTERNATIONAL CONFERENCE "NITRIC OXIDE IN CANCER"

Institute of Biomedicine of Sevilla (IBIS)  
Sevilla, Spain  
March 13-14, 2015



# PROGRAM

## DAY 1

### OPENING SESSION (8:00-8:15)

Dr. José Lopez Barneo (Scientific Director IBiS)  
Dr. Benjamín Bonavida  
Dr. Jordi Muntané

### SESSION 1 (8:15-10:30)

NITRIC OXIDE, MUTAGENESIS, CARCINOGENESIS,  
TUMOR PROMOTION AND TUMOR GROWTH

Moderator: Dr. Salvador Moncada

- 1) Nitric oxide and cancer: Deciphering the complex biological interactions.  
Dr. S.P. Hussain (National Cancer Institute, Bethesda, USA).
- 2) Nitric oxide and cancer: Biochemistry and molecular mechanism.  
Dr. D.A. Wink (National Cancer Institute, Bethesda, USA).
- 3) Nitric oxide: genomic instability and synthetic lethality.  
Dr. V.A. Yakovlev (Virginia Commonwealth University, Richmond, USA).

### Young investigation session

Three selected oral communications

Coffee break (10:30-11:00)

### SESSION 2 (11:00-13:15)

NITRIC OXIDE REGULATION OF CELL DEATH PATHWAY

Moderator: Dr. David A. Wink

- 1) Regulation of cell death apoptotic pathways by nitric oxide in cancer.  
Dr. B. Bonavida (Jonsson Comprehensive Cancer Center University of California, Los Angeles, USA).
- 2) Role of S-nitrosylation in the extrinsic apoptotic signaling pathway in cancer.  
Dra. S. Plenchette (EPHE-University of Burgundy, Dijon, France).
- 3) Synergistic interactions between nitric oxide and oxygen free radicals cause selective apoptosis induction in malignant cells.  
Dr. G. Bauer (Department of Medical Microbiology and Hygiene, University Medical Center, Freiburg, Germany).

### Young investigation session

Three selected oral communications

### Meet-the-Professor Luncheons (13:15-15:00)

- 1) Chemistry (Dr. Jack R. Lancaster)
- 2) Cell death (Dr. Timothy R. Billiar)
- 3) Cell proliferation and mesenchymal-transition (Dr. David A. Wink)
- 4) Clinical trials (Dr. Khosrow Kashfi)
- 5) Immune response (Dr. Charles H. Graham)
- 6) Nitric oxide and hypoxia (Dr. Salvador Moncada)

### SESSION 3 (15:00-17:15)

NITRIC OXIDE: PROLIFERATION AND EPITHELIAL-MESENCHYMAL TRANSITION

Moderator: Dr. Timothy R. Billiar

- 1) STAT3 regulation by S-nitrosylation: implication in cancer.  
Dr. I. Singh (Medical University of South Carolina, Charleston, USA).
- 2) Regulation of hypoxia-induced malignant phenotypes by NO/cGMP signalling.  
Dr. Ch.H. Graham (Queen's University, Canada).
- 3) Genetic analysis of the role of nitric oxide in oncogenic RAS-driven cancers.  
Dr. Ch. Counter (Duke University Medical Center, Durham, USA).

### Young investigation session

Three selected oral communications

Coffee break (17:15-17:45)

### SESSION 4 (17:45-20:00)

REGULATION OF IMMUNE RESPONSE BY NITRIC OXIDE

Moderator: Dr. Jack R. Lancaster

- 1) Cellular protective mechanisms of inducible nitric oxide synthase.  
Dr. T. R. Billiar (University of Pittsburgh, USA).
- 2) Post-translational nitric oxide-dependent modifications in immune system.  
Dr. A. Martínez-Ruiz (Hospital Universitario de La Princesa, Madrid, Spain).
- 3) Macrophage polarization in the tumor microenvironment.  
Dr. B. Brüne (Goethe-University Frankfurt, Germany).

### Young investigation session

Three selected oral communications

## DAY 2

### SESSION 5 (8:00-10:15)

ANTITUMORAL ACTIVITY OF NITRIC OXIDE-BASED RELEASING STRATEGIES: PRE-CLINICAL STUDIES

Moderator: Dr. S. Perwez Hussain

- 1) Utility of nitric oxide and hydrogen sulfide-releasing chimeras as anticancer agents.  
Dr. K. Kashfi (Sophie Davis School of Biomedical Education, New York, USA).
- 2) Antitumoral activity of nitric oxide-releasing compounds.  
Dra. M. Klink (Institute of Medical Biology, Polish Academy of Sciences, Lodz, Poland).
- 3) Nitric oxide synthase type III overexpression by gene therapy exerts antitumoral activity in mouse hepatocellular carcinoma.  
Dr. R. González (Department of Biochemistry and Molecular Biology, University of Córdoba, Córdoba, Spain).

### Young investigation session

Three selected oral communications

Coffee break (10:15-10:45)

### KEYNOTE SESSION (10:45-11:30)

Nitric oxide, hypoxia and cancer  
Dr. Salvador Moncada (University College London, UK).

### SESSION 6 (11:30-13:45)

ANTITUMORAL ACTIVITY OF NITRIC OXIDE-BASED RELEASING STRATEGIES: CLINICAL TRIALS

Moderator: Dr. Benjamin Bonavida

- 1) The development of RRx-001, a novel nitric oxide-mediated epigenetically active anticancer agent.  
Dr. J. Scicinski (EpicentRx Inc., California, USA).
- 2) Treatment of sunitinib-induced hypertension in solid tumor by nitric oxide donor.  
Dr. A. Aparicio (Department of Clinical Oncology, A Coruña University Hospital, A Coruña, Spain).
- 3) The role of nitric oxide after repeated low dose photodynamic treatments in prostate carcinoma cells.  
Dra. V. Rapozzi (University of Udine, Italy).

### Young investigation session

Three selected oral communications

LUNCH, REWARDS AND CONCLUDING REMARKS  
(13:45-15:30)

### Registration:

Web site: <http://www.ibis-sevilla.es/agenda/congresos/2015/03/iv-international-conference-nitric-oxide-in-cancer.aspx>

Before February 1, 2015

300 Euros  
(Registration to the meeting, two lunches and 2 nights in the Hotel Sevilla Palmera)

200 Euros  
(Registration to the meetings and two lunches).

After February 1, 2015

All fees will be charged with 10% increase

### Abstract submission:

Web site: <http://www.ibis-sevilla.es/agenda/congresos/2015/03/iv-international-conference-nitric-oxide-in-cancer.aspx>

### Deadline for abstract submission:

February 20, 2015