Invited Speakers

- David Russell - UNIVERSITY OF EAST ANGLIA (UK)
- Jordi Muntané Relat - INSTITUTO DE BIOMEDICINA DE SEVILLA, ES
- S. Perwez Hussain - NATIONAL CANCER INSTITUTE (USA)
- Albert W. Girotti - MEDICAL COLLEGE OF WISCONSIN (USA)
- Khosrow Kashfi - CITY UNIVERSITY OF NEW YORK (USA)
- Salvatore Sortino - UNIVERSITY OF CATANIA (IT)
- David A. Wink - NATIONAL CANCER INSTITUTE (USA)
- Vasily A. Yakovlev - VIRGINIA COMMONWEALTH UNIVERSITY (USA)
- Stéphanie Plenchette-Colas - EPHE-UNIVERSITY OF BURGUNDY (FR)
- Georg Bauer - UNIVERSITY MEDICAL CENTER (DE)
- Timothy R. Billiar - UNIVERSITY OF PITTSBURGH (USA)
- Giuseppe Filomeni - DANISH CANCER RESEARCH CENTER (DK)

Venue

The workshop will be held at the Italian National Research Council Area
Via P. Gobetti, 101 – 40129 Bologna (Italy)

How to reach CNR Bologna Research area:

BUS

- Line 87 direction “Rotonda C.N.R.” until the last stop
- Time distance: 10-15 min from Central Station
- More info at www.tper.it (in italian)

TAXI

- COTABO Tel. +39051372727
- CAT Radiotaxi Bologna Tel. +390514590

More information available at http://www.nitricoxidebologna.isof.cnr.it

Sponsorship

V INTERNATIONAL WORKSHOP
ON NITRIC OXIDE AND CANCER

March 22-24, 2017
Italian National Research Council
Institute of Organic Synthesis & Photoreactivity
Via Piero Gobetti 101 Bologna - Italy

Under the Patronage of:

- Italian Association for Cancer Research
- University of Udine
Program

March 22nd - Room 216

14:00 – 15:00 Participants registration
15:00 – 15:30 Opening Session

Dr. Roberto Zamboni
Director of the Bologna Research Area
Director of ISOF-CNR

Mrs. Pierangela Borghi Zecchi
President of the AIRC regional committee

I Session – Pro-tumorigenic activity mediated by NO
Chair: Prof. Timothy Billiar
15:30 – 16:00 Invited Lecture Prof. D. A. Wink
The Oncogenic properties of the Redox Inflammatory Protein Inducible Nitric Oxide Synthase in ER (-) Breast Cancer
16:00 – 16:20 Selected Lecture Dr. E. Terzuoli
Cross-talk between mPGES-1 and iNOS: activation of stem-like phenotype in EGFR-driven epithelial tumor cells
16:20 – 17:10 Coffee Break

II Session – Pro-tumorigenic activity mediated by NO
Chair: Prof. David A. Wink
17:10 – 17:40 Invited Lecture Prof. T. R. Billiar
iNOS regulates the phenotype of liver cancer stem cells
17:40 – 18:00 Selected Lecture Dr. S. Glynn
Chronic Nitric Oxide exposure induces prostate cell carcinogenesis involving genetic instability and a pro-tumorigenic secretory phenotype
18:00 – 18:20 Selected Lecture Dr. S. Rizza
The denitrosylating enzyme GSNOR controls tumor progression and malignancy
18:20 – 18:50 Invited Lecture Prof. S. Perwez Hussain
Nitric Oxide as an Enhancer of Pancreatic Cancer Progression: A Potential Therapeutic Opportunity
18:50 – 19:20 General Discussion for Sessions I and II

March 23rd - Room 216

III Session – Anti-tumorigenic activity mediated by NO
Session Chair: Prof. Jordi Muntané Relat

9:30 – 10:00 Invited Lecture Prof. S. Pienchette-Colas
S-nitrosylation of c-FLIP switches cancer cell fate from TNFα/TNFR1-mediated cell survival to death
10:00 – 10:20 Selected Lecture Dr. C. Maccallini
CM554, a new potent and selective iNOS inhibitor: synthesis, docking study, and biological evaluation on glioma cells line

10:20 – 10:45 Company Lecture Dr. M. Liberi
EPR: a tool to characterize Reactive Oxygen Species, now made simpler
10:45 – 11:15 Coffee Break

IV Session – Anti-tumorigenic activity mediated by NO
Chair: Dr. Valentina Rapozzi
11:15 – 11:45 Invited Lecture Prof. A. W. Girotti
Role of endogenous nitric oxide in hyper-aggressiveness of tumour cells that survive a photodynamic therapy challenge
11:45 – 12:05 Selected Lecture Dr. Marialucia Gallorini
In vitro biological response of C6 rat glioma cells towards a new selective iNOS inhibitor
12:05 – 12:30 Company Lecture Dr. E. Eroglu
Shining a Light on Cellular Nitric Oxide Dynamics
12:30 – 13:00 Invited Lecture Prof. J. Muntané Relat
Integration of oxidative and nitrosative stress in the overall cell death signaling induced by Sorafenib in hepatoma cells
13:00 – 14:00 Lunch

V Session – Anti-tumorigenic activity: NO donors and multi modal treatment
Chair: Dr. Greta Varchi
14:00 – 14:30 Invited Lecture Prof. Salvatore Sortino
Nitric Oxide Photodelivering Nanoconstructs
14:30 – 14:50 Selected Lecture Dr. D. Afonso
Mesoporous silica nanocapsules photoreleasing nitric oxide with carbon dots as fluorescent reporters
14:50 – 15:10 Selected Lecture Dr. M. L. Navacchia
NO photoreleaser-deoxyadenosine and -bile acid derivatives bioconjugates as novel potential photo-chemotherapeutics
15:10 – 15:30 Selected Lecture Dr. C. Ferroni
Synthesis, in vitro biological activity and mechanistic study of a novel photodynamic bifunctional conjugate
15:30 – 16:00 Coffee Break

VI Session – Anti-tumorigenic activity: NO donors and multi modal treatment
Chair: Prof. Khosrow Kashfi
16:00 – 16:30 Invited Lecture Prof. D. Russell
Functionaliszd gold nanoparticles for the measurements of intracellular nitric oxide and for targeted PDT in cancer
16:30 – 16:50 Selected Lecture Prof. F. Quaglia
PEGylated biodegradable nanoparticles for dermal nitric oxide photodelivery
16:50 – 17:30 General Discussion for Sessions III-VI

17:30 – 19:30 SOCIAL EVENT

20:30 – SOCIAL DINNER

March 24th - Room 216

VII Session – Anti-tumorigenic activity: Novel nitric oxide donors
Chair: Prof. Salvatore Sortino
9:15 – 9:45 Invited Lecture Prof. K. Kashfi
Molecular targets of NOSH-aspirin in a xenograft mouse model of ER(+) breast cancer
9:45 – 10:05 Selected Lecture Dr. L. Morbidelli
Characterization of the antitumoral activity of novel metal-nonolate
10:05 – 10:25 Selected Lecture Dr. E. Gazzano
Nitric oxide donor-doxorubicins: a new strategy effective against drug resistant tumors
10:25 – 11:00 Coffee Break

VIII Session – Anti-tumorigenic activity: role of oxidative pathways
Chair: Prof. Benjamin Bonavida
11:00 – 11:30 Invited Lecture Prof. G. Bauer
Nitric oxide acts at multiple sites during selective apoptosis induction in tumor cells
11:30 – 12:00 Invited Lecture Prof. G. Filomeni
GSNOR and mitochondria crosstalk: implications in cancer therapy and ageing
12:00 – 12:20 Selected Lecture Dr. D. W. McVicar
Autocrine IL-10 Functions as a Rheostat for M1 Macrophage Glycolytic Commitment by Tuning Nitric Oxide-mediated Suppression of Mitochondrial Aconitase
12:20 – 13:20 Overall discussion and future perspectives

ALL CHAIRS

13:20 – 14:30 Lunch

Committees

Workshop Chairs
Dr. Greta Varchi
Dr. Valentina Rapozzi

Local Organising Committee
Dr. Greta Varchi
Dr. Valentina Rapozzi
Dr. Claudia Ferroni
Dr. Giovanna Sotgiu

Scientific Advisory Board
Prof. Benjamin Bonavida
Prof. Jordi Muntané Relat
Dr. Greta Varchi
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