

UNCONDITIONALLY SUPPORTED LECTURE

With the unconditional support of Astrazeneca

Neuronal basis for blunted glucocorticoid circadian rhythms in breast cancer.
Jeremy Borniger (Cold Spring Harbour Laboratory, Cold Spring Harbour, NY, USA)

OTHER LECTURES

Brain aging in cancer patients.
Lara Barazzuol (University of Groningen, Groningen, The Netherlands)

Hijacking of developmental processes in diffuse midline glioma invasion.
David Castel (Gustave Roussy, Université Paris-Saclay, Villejuif, France)

Neural environment of cancer.
Claire Magnon (INSERM, Paris, France)

The Neuroscience of brain cancer.
Michelle Monje (Stanford University, Stanford, CA, USA)

IDH inhibition in gliomas: from preclinical models to clinical trials.
Riccardo Soffietti (University of Torino & IRCCS Candiolo)

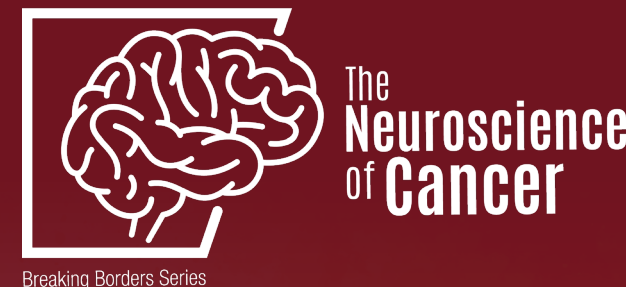
Fixing the brain to challenge metastasis.
Manuel Valiente (CNIO, Madrid, Spain)

Characterizing and targeting brain tumor networks in glioblastoma and beyond.
Varun Venkataramani (Heidelberg University, Heidelberg, Germany)

Astroglia atrophy in diseases of mood and cognition.
Alexej Verkhratsky (Manchester, UK)

The impact of tumor-infiltrating nerves on the brain and behavior.
Paola Vermeer (Sanford Research, Sioux Falls, South Dakota, USA)

"More than Neurons" Conference



The nervous system is currently emerging as a key regulator of cancer. Mounting evidence indeed support that nervous system-cancer interactions play a central role in tumour initiation, growth and invasion of other tissues. In turn, cancer has the ability to hijack and/or remodel nervous system functions and structures for its own advantage and growth. Several studies demonstrate that interactions between the nervous system and cancer can occur both locally and at distance.

Neural cells (neurons, glia, stem cells) may communicate directly with malignant cells in the local tumour microenvironment through paracrine factors and even through neuron-to-cancer cell synapses. In addition in a wide range of malignancies outside the nervous system cancer-nervous tissue interactions occur at a distance through both circulating signalling molecules and influences on immune cells with relevant consequences on anti-cancer immunity and treatment responsivity, including immunotherapy in responsive tumours (lung, renal cell carcinoma, melanoma, etc.).

The emerging field of cancer neuroscience aims at identifying key signalling pathways of cancer-nervous system crosstalk and to evaluate these modulators as novel targets for anticancer therapies. Targeting the tumor-nerve axis holds the potential for advancing effective therapies for many of the most difficult to treat malignancies.

Expanding current knowledge on neuroscience of cancer requires multidisciplinary efforts and collaboration among scientists working in the fields of neuroscience, cancer biology, developmental biology, immunology. Our new Conference Series (More than Neurons Conference: Breaking Borders Series) aims at fostering discussion on the burgeoning field of cancer neuroscience and its related anticancer therapies.

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CME accreditation (valid for Italian participants only) for:

- PHYSICIAN – Allergology and clinical immunology, Anatomical pathology, Clinical biochemistry, Hematology, Pharmacology and clinical toxicology, Geriatrics, Metabolic diseases and diabetology, Neurosurgery, Neurophysiopathology, Neurology, Oncology, Clinical Pathology (Laboratory of Chemical-Clinical Analysis and Microbiology), Psychiatry
- PHARMACIST
- BIOLOGIST
- NEUROPHYSIOPATHOLOGY TECHNICIAN
- BIOMEDICAL LABORATORY HEALTHCARE TECHNICIAN

EVENT ID: 426446 CME credits: 11,9

Italian CME credits will be granted to those participants who attend at least 90% of scientific works, fill in the questionnaire assessment of perceived quality and duly fill in the evaluation questionnaires answering correctly 75% of the questions. At the end of the scientific work, an e-mail with the link to access the CME questionnaire will be sent.

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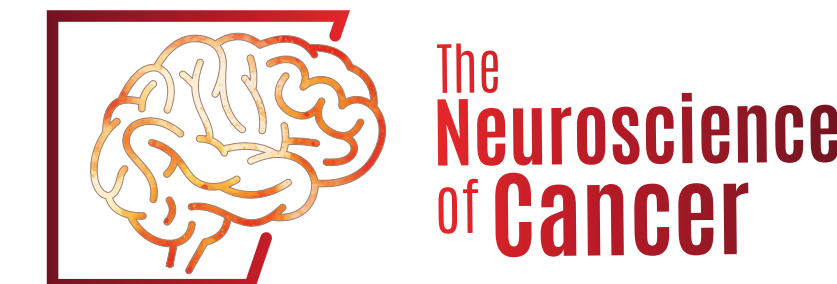
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October 2-4, 2024 | San Lazzaro di Savena (Bologna), Italy
Unahotels San Lazzaro - Via Luigi Fantini, 1

"More than Neurons" Conference



Breaking Borders Series

Scientific Organizers:

Pier Luigi Canonico
Mariagrazia Grilli
University of Piemonte
Orientale, Italy

Scientific Board:

Monica Di Luca (Milano, Italy)
Tullio Florio (Genova, Italy)
Patrizia Hrelia (Bologna, Italy)
Neibla Priego (Madrid, Spain)
Maria Angela Sortino (Catania, Italy)
Alex Verkhratsky (Manchester, UK)

📅 DAY 1 - WEDNESDAY - OCTOBER 2nd 2024

- 10.00 Onsite registration and badge distribution
- 13.00 Welcome & Keynote Address



SESSION 1 THE NEUROSCIENCE OF CANCER: PRIMARY CNS TUMOURS

13.15 Introduced by Maria Angela Sortino
INVITED LECTURE: Hijacking of developmental processes in diffuse midline glioma invasion.
David Castel (Gustave Roussy, Université Paris-Saclay, Villejuif, France)

13.45 *Q&A Session*

1.1 Primary CNS tumors: mechanistic studies.

Oral communications selected from abstracts
Chairpersons: Patrizia Hrelia, Tullio Florio

13.55 **Contribution of concurrent RB1 and p53 pathway disruption to the development of the Primitive Neuronal Component in Glioblastoma.**
Elena Somenza (Brescia, Hamburg, Milano)

14.10 **Involvement of DNA repair in high-grade glioma recurrence: mechanistic insights into the nucleotide excision repair pathway in glioma stem cells.**
Elena Cerutti (Genova)

14.25 **Investigating the role of PTX3 in the biology of glioblastoma.**
Camilla Tavani (Brescia, Hamburg, Milano, Candiolo)

14.40 **Study on the contribution of neuronal environment in glioblastoma malignancy.**
Chiara Saulle (Milano)

14.55 ☕ Coffee break

15.30 Introduced by Monica Di Luca
HONORARY LECTURE: The Neuroscience of brain cancer.
Michelle Monje (Stanford University, Stanford, CA, USA)

16.15 *Q&A Session*

1.2 Primary CNS tumours: therapeutic targeting.

Oral communications selected from abstracts
Chairpersons: Patrizia Hrelia, Tullio Florio

16.30 **Investigating the role of voltage-gated sodium channels in glioblastoma stem cells: implications for therapeutic targeting.**
Federico Brandalise (Milano, Pavia, Pisa, Padova)

16.45 **Targeting Citron Kinase catalytic activity for high grade brain tumors treatment.**
Alessia Ferraro (Torino, Milano)

17.00 Introduced by Pier Luigi Canonico
HONORARY LECTURE: IDH inhibition in gliomas: from preclinical models to clinical trials.
Riccardo Soffietti (University of Torino & IRCCS Candiolo)

17.45 *Q&A Session*



SESSION 2 THE NEUROSCIENCE OF CANCER: FOCUS ON BRAIN METASTASIS

18.00 Introduced by Riccardo Soffietti
HONORARY LECTURE: Fixing the brain to challenge metastasis.
Manuel Valiente (CNIO, Madrid, Spain)

18.45 *Q&A Session*

Oral communications selected from abstracts
Chairperson: Riccardo Soffietti

19.00 **STAT3 expression in brain metastases from breast cancer: correlations with different molecular subtypes and clinical outcome.**
Alessia Pellerino (Torino, Candiolo, Madrid)

19.15 **Brain metastasis in a model of canine haemangiosarcoma: investigating the role of miRNAs.**
Corinne Quadalti (Bologna)

20.00 Welcome reception

📅 DAY 2 - THURSDAY - OCTOBER 3rd 2024



SESSION 3 NEURAL REGULATION OF CANCER IN PERIPHERY

08.30 Introduced by Mariagrazia Grilli
HONORARY LECTURE: Neural environment of cancer.
Claire Magnon (INSERM, Paris, France)

09.15 *Q&A Session*

Oral communications selected from abstracts
Chairpersons: Filippo Caraci, Maurizio Memo

09.30 **Molecular mechanisms of perineural invasion in pancreatic adenocarcinoma.**
Federica Greco (Milano, Munich)

09.45 **Characterization of CD271+ Schwann Cells as an in vitro model of schwannomatosis.**
Valerio Magnaghi (Milano)

10.00 **Calcitonin gene-related peptide (CGRP) as possible key factor for neuroinflammatory modulation of in vitro neuroblastoma growth and migration.**
Donato Colangelo (Novara)

10.15 **Deciphering the connection between neurodegeneration and cancer via lncRNAs: a role for MINCR.**
Cecilia Pandini (Milano, Pavia)

10.30 ☕ Coffee break

11.00 Introduced by Alex Verkhatsky
HONORARY LECTURE: The impact of tumor-infiltrating nerves on the brain and behavior.
Paola Vermeer (Sanford Research, Sioux Falls, South Dakota, USA)

11.45 *Q&A Session*

12.00 🍴 Lunch



SESSION 4 THE NEUROSCIENCE OF CANCER: FOCUS ON TME, INNERVATION, TISSUE REMODELING AND NEUROIMMUNE AXIS.

Oral communications selected from abstracts
Chairpersons: Valerio Magnaghi, Ilaria Decimo

13.30 **The intricate cross-talk between neuronal and vascular system in the control of tumour development: a reappraisal of published data to define novel pharmacological strategies.**
Lucia Morbidelli (Siena)

13.45 **Tumor-Associated Macrophages promote tumor innervation and neural regeneration.**
Ilaria Decimo (Verona, Leipzig, Milano, London)

14.00 **Microglia-neuron crosstalk in the remodelling of peritumoral circuits.**
Erika Di Pietro (Roma, Pozzilli)

14.15 **Understanding the role of astrocyte-mediated phagocytosis in brain tumors.**
Erika Coletto (Venezia, Padova, Roma)

14.30 **Inflammatory dynamics in schwannomatosis: interactions between Schwann cells and monocytes.**
Tasnim Mohamed (Milano)

14.45 **Natural killer cells modulate peri-tumoral neuron activity in glioblastoma.**
Letizia Mazzarella (Roma, Pozzilli)

15.00 **Effects of endocrine disruptors chemicals on miRNAs dysregulation and neuronal cells proliferation**
Giulia Sita (Bologna)

15.15 🍴 Poster session (with coffee break)

16.30 Introduced by Carlo Riccardi
HONORARY LECTURE: Neuronal basis for blunted glucocorticoid circadian rhythms in breast cancer.
Jeremy Borniger (Cold Spring Harbour Laboratory, Cold Spring Harbour, NY, USA)

17.15 *Q&A Session*

📅 DAY 3 - FRIDAY - OCTOBER 4th 2024



SESSION 5 CANCER- AND CANCER THERAPY-ASSOCIATED ISSUES

08.15 Introduced by Nicoletta Brunello
INVITED LECTURE: Brain aging in cancer patients.
Lara Barazzuol (University of Groningen, Groningen, The Netherlands)

08.45 *Q&A Session*

Oral communications selected from abstracts
Chairpersons: Ambra Grolla, Patrizia Romualdi

09.00 **How to prevent chemobrain: a systematic preclinical study to support predictive models for human patients.**
Laura Calzà (Bologna, Ferrara)

09.15 **Cancer-specific association between neurodegenerative-related genes and cellular pathways, clinical outcome, and drug response.**
Luca Colnaghi (Milano, Bellinzona)

09.30 **The role of prokineticins and histone demethylase KDM6A in bortezomib-induced painful neuropathy and mood disorders.**
Laura Rullo (Bologna, Milano)

09.45 **Vulnerability of white matter to chemotherapy drugs: focus on oligodendrocytes and oligodendrocyte precursor cells.**
Vito Antonio Baldassarro (Bologna)

10.00 **The role of oncological infrastructures on the mood disorders experienced by cancer patients.**
Rafael Jamie William Salas Carretero (Bologna)

10.15 🍴 Poster session (with coffee break)

11.45 Introduced by Dmitry Lim
“MTN” INVITED LECTURE: Astroglia atrophy in diseases of mood and cognition.
Alexej Verkhatsky (University of Manchester, Manchester, UK)
Q&A Session

12.15 🍴 Lunch



SESSION 6 NOVEL THERAPEUTIC AND DIAGNOSTIC STRATEGIES

Oral communications selected from abstracts
Chairpersons: Neibla Priego, Laura Calzà

13.45 **Antitumour potential of targeting glutamatergic signaling in patient-derived glioblastoma cell lines.**
Beatrice Tremonti (Genova)

14.00 **Ketogenic diet induces an inflammatory reactive astrocytes phenotype reducing glioma growth.**
Maria Rosito (Roma, Pozzilli)

14.15 **Using a rational approach for drugs and diagnostics tools development to selective targeting human aldehyde dehydrogenase 1A3 in gliomas.**
Silvia Garavaglia (Novara, Pisa, Pavia)

14.30 **Blood-Brain Barrier Penetrating and Promising Drug Delivery Systems in Glioblastoma Therapy: Exosome-Nanoliposome Hybrid**
Burcak Yavuz (Istanbul)

14.45 Introduced by Neibla Priego
INVITED LECTURE: Characterizing and targeting brain tumor networks in glioblastoma and beyond.
Varun Venkataramani (Heidelberg University, Heidelberg, Germany)

15.15 *Q&A Session*

15.30 Wrap up & Closing remarks

16.00 Closure