



THE FOURTH CONGRESS ON THE EPH/EPHRIN SYSTEM



Parma, Italy. May 16-17, 2024



**UNIVERSITÀ
DI PARMA**

MAY 16, 2024

Welcome

9.00 S. Baglioni (Vice Rector for Education), G. Galaverna (Director of the Food and Drug Department) and Massimiliano Tognolini
University of Parma, Italy

Opening lectures

9.10 Quantifying Eph receptor multimerization with time resolved fluorescence spectroscopy
Adam Smith
Texas Tech University, USA

9.40 EphA2 Multimerization Underscores Canonical and Noncanonical Signaling in Oncogenesis
Bingcheng Wang
Case Western Reserve University, USA

Session: CNS

Adam Smith and Massimiliano Tognolini

10:10 Untangling astrocyte-mediated PV inhibitory synapse development through ephrin-B1/EphB2 signaling
Iryna M. Ethell
University of California Riverside, USA

10:35 The roles of ephrin-B2 and EphB2 in memory formation
Raphael Lamprecht
University of Haifa, Israel

11.00 EphA1 missense mutations associated with Alzheimer's disease dysregulate receptor signaling function
Elena B. Pasquale
Sanford Burnham Prebys Med Discovery Institute, USA

11.25 *Coffee break*

Session: Cancer I

Bryan Day and Jiangping Wu

11.50 Roles of EphA2-ephrin-A signaling in prostate cancer development and progression
Ryan Lingerak
Case Western Reserve University, USA

12.15 EphA4 in head and neck squamous cell carcinoma: dissecting its role in the tumor microenvironment and tumor progression
Sophia Corbo
University of Colorado, USA

12.40 Advancing understanding of uveal melanoma progression: integrating Eph/ephrin epigenetics, gene expression, and regulatory networks through comprehensive big data analysis and web resources
Georgios Mandrakis
University of Athens, Greece

13.05 *Lunch*

Session: Molecular Biology

Bingcheng Wang and Maurizio Pellecchia

14.30 Proximity labeling of ephrin-B ligands reveals that EGFR is an EFNB1 interactor
Ana Isabel Osornio-Hernandez
Université Laval, Canada

14.55 EphA2 transmembrane helix interactions regulate EphA2 oligomerization
Kalina Hristova
Johns Hopkins University, USA

15.20 Could the pro-oncogenic role of EphA2 Ser-897 be affected by Eph-ephrin antagonists?
Francesca Romana Ferrari
University of Parma, Italy

15.35 EphA2 controls EphA1 function via a heterotypic interaction that regulates tumor susceptibility
Xiaojun Shi (online)
Case Western Reserve University, USA

Coffee break

Session: Miscellaneous
Mario Cioce and Massimiliano Tognolini

16.30	The relationship between ephrin and NOTCH system in the regulation of tube formation of HUVECs in co-culture with MSCs	Irina Beloglazova (online) <i>National Medical Research Centre of Cardiology Named after Academician E.I. Chazov, Russia</i>
16.55	Ephrin micropatterns exogenously modulate cell organization in organoid-derived intestinal epithelial monolayers	Elena Martinez (online) <i>Institute for Bioengineering of Catalonia, Spain</i>

19:30 *Social dinner*

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9.00 – 10.00 Poster session / Coffee

Session: Drug discovery
Raphael Lamprecht and Alessio Lodola

10.00	Fifteen years of ephrins in Parma: a PPI-inhibitors story	Carmine Giorgio <i>University of Parma, Italy</i>
10.25	Hunting for original anticancer agents: peptide modulators of EphA2 mediated SAM-SAM interaction	Marilisa Leone <i>CNR Naples, Italy</i>
10.50	Anti-ephrin-B2 neutralizing antibody suppresses fibrosis in preclinical <i>in vitro</i> and <i>in vivo</i> models	Benjamin T. Wilks <i>Mediar Therapeutics, USA</i>
11.15	Unveiling potential? Targeting Eph-ephrin in glioblastoma stem cells with novel PPI-inhibitors	Alfonso Zappia <i>University of Parma, Italy</i>
11.30	Targeting the Eph-ephrin system in cancer and neurodegeneration	Maurizio Pellecchia <i>University of California Riverside, USA</i>
11.55	EphB2 a viable therapeutic target for the treatment of pediatric medulloblastoma	Bryan W. Day <i>The University of Queensland, Australia</i>

12.20-13.50 Lunch / Poster

Session: Cancer II
Elena B. Pasquale and Andrew Freywald

13.50	Ephrin's and Eph's are implicated in EGFR-TKI resistance of non-small cell lung cancer and are loaded in extracellular vesicles	Albano Cáceres-Verschae <i>Karolinska Institute, Sweden</i>
14.15	EphA2 phosphorylation sustains the adaptive response of colorectal organoids to oxaliplatin	Mario Cioce <i>University of Campus-BioMedico, Italy</i>
14.40	Harnessing the EphA2 blockade in glioblastoma	Andrea Knight <i>Masaryk University, Czech Republic</i>
15.05	Farewell	Massimiliano Tognolini <i>University of Parma, Italy</i>



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Lamprecht Raphael

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Lodola Alessio

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Wang Bingcheng

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