Dr. Eleonora Vannini is a young research scientist at Neuroscience Institute, National Research Council (CNR).
Dr. Vannini is Author/co-author of over 22 peer reviewed Publication Citation H Index: 9 (Web of Science)

EXPERIENCE AND TRAINING

2009 Degree in Neurobiology, University of Pisa
2014 Ph.D. in Neurobiology, Scuola Normale Superiore, Pisa
2017–2019 Post-doc Researcher, Neuroscience Institute, CNR Pisa, Italy
2016–2017 Post-doc Researcher, Pharmacology and Brain Pathology Lab, Humanitas Clinical and Research Centre, Rozzano, Italy
2015-2016 Post-doc Researcher, Dep. of Neuroscience, Psychology and Behaviour University of Leicester, UK
2014–2015 Post-doc Researcher, Neuroscience Institute, CNR Pisa, Italy

HONOURS AND MEMBERSHIPS

2021: Funding and Executive Board member of BraYn Association
2020–today: Member of Lega Italiana contro l'Epilessia (LICE)
2018–today: Member of Società Italiana di Neuroscienze (SINS)
2020–today: Guest Editor for: Frontiers in Integrative Neuroscience, Journal of Molecular Science, Cancer; Member of the Reviewer Board: Toxins; Review Editor for: Frontiers in Cellular Neuroscience, Frontiers in Neural Circuits
2019 and 2016 Fondazione Umberto Veronesi Fellowship
2018 Winner of Falling Walls Lab Florence 2018; University of Florence, Italy
2016 Special Award of the Jury Premio Aldo Fasolo; University of Turin, Italy
2015 Early Career Researcher Prize Dep. of Neuroscience, Psychology and Behaviour; University of Leicester, UK

FINANCIAL SUPPORT OF ONGOING RESEARCH PROJECTS

- Participating unit: 1) Neuronal-microglia interplay in the regulation of glioma microenvironment, Grant PRIN 2020; 2) Radiotherapy with hIgh Dose-rate particle beAms (FRIDA) INFN CSN5 Call 2021.
- Collaborator: 1) Physiological neuronal activity in the control of glioma progression and tumor microenvironment, Grant PRIN 2018.

SELECTED PUBLICATIONS

1. Parmigiani E, Scalera M, Mori E, Tantillo E, Vannini E. Old stars and new players in the brain tumor microenvironment. Frontiers in Cellular Neuroscience 2021

2. Vannini E, Mori E, Tantillo E, Schimdt G, Caleo M, Costa M. CTX-CNF1 recombinant protein selectively targets glioma cells in vivo. Toxins
3. Vannini E, Restani L, Dilillo M, McDonnell L, Caleo M, Marra V. Synaptic Vesicles Dynamics in Neocortical Epilepsy. Frontiers in Cellular Neuroscience 2020
4. Tantillo E, Colistra A, Baroncelli L, Costa M, Caleo M, Vannini E. Voluntary physical exercise reduces motor dysfunction and hampers tumor cell proliferation in a mouse model of glioma. International Journal of Environmental Research and Public Health 2020
5. Tantillo E, Vannini E, Cerri C, Spalletti C, Colistra C, Mazzanti CM, Costa M, Caleo M. Differential roles of pyramidal and fast-spiking, GABAergic neurons in the control of glioma cell proliferation. Neurobiology of Disease 2020
6. Tantillo E, Colistra A, Vannini E, Cerri C, Pancrazi L, Baroncelli L, Costa M, Caleo M. Bacterial toxins and targeted brain therapy: new insights from Cytotoxic Necrotizing Factor 1 (CNF1). International Journal of Molecular Science 2018
7. Vannini E, Maltese F, Olimpico F, Fabbri A, Costa M, Caleo M, Baroncelli L. Progression of motor deficits in glioma-bearing mice: impact of CNF1 therapy at symptomatic stages. Oncotarget 2017
8. Vannini E, Olimpico F, Middei S, de Graaf E, McDonnell L, Ammassari Teule M, Schmidt G, Fabbri A, Fiorentini C, Baroncelli L, Costa M, Caleo M. Electrophysiology of glioma: Rho GTPase activation spares neuron structure and function. Neuro-Oncology 2016
9. Vannini E, Restani L, Pietrasanta M, Panarese A, Mazzoni A, Rossetto O, Middei S, Micera S, Caleo M. Altered sensory processing and dendritic remodeling in hyperexcitable visual cortical networks. Brain Structure and Function 2016
10. Vannini E, Panighini A, Cerri C, Fabbri A, Lisi S., Pracucci E, Benedetto N, Vannozzi R, Fiorentini C, Caleo M, Costa M. The bacterial protein toxin, cytotoxic necrotizing factor 1 (CNF1) provides long-term survival in a murine glioma model. BMC Cancer 2014