

Marta Scalera is a research fellow at Neuroscience Institute, CNR, Pisa under the scientific responsibility of Dr. Eleonora Vannini.

The focus of her research is to understand possible therapeutic approaches in vitro and in vivo for glioblastoma. She uses preclinical rodent models and cell cultures as experimental tools that will be employed in radiation experiments as well, to assess DNA damage and oxidative stress.



## **EXPERIENCE AND TRAINING**

2021: Master's degree in Biology Applied to Biomedicine, University of Pisa

Thesis: "Characterization of glioma microenvironment: effects of glioma growth on murine visual cortex activity"

2020 – 2021: Internship at Neuroscience Institute, National Research Council (CNR) with the supervision of Dr Eleonora Vannini

Technical skills acquired: surgical and electrophysiological techniques (EEG, LFP), immunohistochemistry, RNA/DNA extraction, PCR, RT-PCR, maintenance of glioma cell cultures (GL261, CT2A, PDGF+Trp53-/-), fluorescence microscopy, 2-photon microscopy, animal handling, general laboratory maintenance.

2017: Bachelor's Degree in Biology, University of Calabria

## **PRESENTATIONS AT CONFERENCES**

2022: Brain Tumor Meeting - Poster presentation. Title: "Molecular changes underlying decay of sensory responses and enhanced seizure propensity in peritumoral neurons"

2021: BraYn Conference - Poster presentation. Title: "Functional and anatomical modifications of peritumoral neurons that occur along with glioma progression", Scalera M, Tantillo E, Spalletti C, Landi S, Mazzanti CM, Vannini E, Caleo M

2020: BraYn Conference – Poster presentation. Title : "Rearrangements of peritumoral tissue that occur along with glioma progression", Cangi D, Haddad S, Scalera M, Spalletti C, Vannini E, Caleo M

## **PUBLICATIONS**

- 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