

FRANCESCA GIAMMELLO

27100, Pavia

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19/11/1999

PROFILE

Graduated in the Molecular Biology field at Milan University, is currently pursuing a PhD in Genetics, Molecular and cellular Biology at Pavia University concerning the study of membrane properties alterations in Glioblastoma Multiforme.

Experience with primary and immortalized cell culture, electrophysiology experiments (patch-clamp technique and data elaboration and analysis), electromagnetic stimulation, pharmacological treatments, MTT assay, gel electrophoresis, Western Blot (with data elaboration and analysis), PCR, immunofluorescence.

EDUCATION

Scienze Biologiche, Università' degli Studi di Milano (Milano, Italy)

Oct. 2018 – Oct. 2021

108 / 110

Molecular Biology of the Cell, Università' degli Studi di Milano (Milano, Italy)

Oct. 2021 – Jul. 2023

110 / 110 cum laude

PhD program in Genetics, Molecular and Cellular Biology, Università' degli Studi di Pavia (Pavia, Italy)

Oct. 2023 – now

INTERNSHIPS

Molecular approaches for the study of oncosuppressors and their role in preventing neoplastic formation - Università' degli Studi di Milano (Milano, Italy)

Apr. 2021 – Jun. 2021

Application of molecular biology techniques (cell culture, PCR, gel electrophoresis, lipofectamine cell transfection, yeast-two-hybrid system, immunofluorescence) to investigate the role and interaction of DNA Damage Response proteins in neoplasms development.

Voltage-Gated Sodium Channel and its role in human Glioblastoma cells - Università' degli Studi di Milano (Milano, Italy)

Oct. 2022 – Jul. 2023

Molecular and electrophysiological investigation of Voltage-Gated Sodium Channels in primary Glioblastoma cell lines. Patch-clamp technique in whole-cell configuration for the characterization of sodium currents and molecular biology approaches to test changes in protein expression.

EXTRA-CURRICULAR ACTIVITIES

Recognition of pain, suffering and distress and its application in the evaluation of severity of the procedures (species specific: mice and rats) - III Edition – IZS dell’Abruzzo e del Molise “G. Caporale”

Oct. 2023

Certified Training Event

Educational Seminars in General Physiology – Università degli Studi di Pavia (Pavia, Italy), Corso di Laurea triennale in “Scienze and Tecnologie per la Natura”

Nov. 2023

Teaching assistant for the General Physiology course

Congress communications:

Giammello F, Amat di San Filippo M, Brandalise F: ‘Voltage-Gated Sodium Channel as a Gate for Stemness in human Glioblastoma Cells’, **Heidelberg Conference on Cancer Neuroscience** - German Cancer Research Center (DKFZ) (Heidelberg, Germany), Jul. 2023

Brandalise F, Cianci F, Biella C, Pastorelli E, Giammello F, Amat di San Filippo M, Mazzanti M, “Regulation of Glioblastoma Cancer Stem Cells and proliferation through Voltage Gated Sodium Channel”, **EANO 2023**. Rotterdam, 21-24 September 2023

Giammello F, Priori EC, “The role of Voltage-Dependent currents and cellular mechanisms in glioblastoma multiforme: identification of new therapeutic targets within the ImmunoHub Consortium” **ImmunoHub Consortium Workshop**. Milan, 17 May 2024

Giammello F, Biella C, Priori EC, Amat di San Filippo M, Leone R, D’Ambrosio F, Paterno’ M, Cassioli G, Spalletti C, Morella I, Ruberti C, Barbieri F, Lombardi G, Brambilla R, Florio T, Galli R, Rossi P, Brandalise F “Modulating Voltage-Gated Sodium Channels to Enhance Differentiation and Sensitize Glioblastoma Cells to Chemotherapy”, **FENS Forum 2024**. Wien, 25-29 June 2024

Priori EC, Brandalise F, Ramieri M, Giammello F, Ratto D, Venuti MT, Roda E, Talpo F, Rossi P. “Role of Na⁺/Ca²⁺ exchanger NCX in glioblastoma cell migration (in vitro)” **FENS Forum 2024**. Wien, 25-29 June 2024

PUBLICATIONS

Priori, E.C.; Ratto, D.; De Luca, F.; Sandionigi, A.; Savino, E.; Giammello, F.; Romeo, M.; Brandalise, F.; Roda, E.; Rossi, P. **Hericium erinaceus Extract Exerts Beneficial Effects on Gut–Neuroinflammation–Cognitive Axis in Elderly Mice**. *Biology* 2024, 13, 18.

<https://doi.org/10.3390/biology13010018>

Gazzola A, Ratto D, Perrucci F, Occhinegro A, Leone R, Giammello F, Balestrieri A, Pellitteri-Rosa D, Rossi P, Brandalise F (2024) **Predation cues induce predator specific changes in**

olfactory neurons encoding defensive responses in agile frog tadpoles. PLOS ONE 19(5): e0302728.

<https://doi.org/10.1371/journal.pone.0302728>

Doldi V, Tortoreto M, Colecchia M, Maffezzini M, Percio S, Giammello F, Brandalise F, Gandellini P, Zaffaroni N. **Repositioning of antiarrhythmics for prostate cancer treatment: a novel strategy to reprogram cancer-associated fibroblasts towards a tumor-suppressive phenotype.** J Exp Clin Cancer Res 43, 161 (2024). <https://doi.org/10.1186/s13046-024-03081-0>

Giammello, F., Biella, C., Priori, E.C. et al. **Modulating voltage-gated sodium channels to enhance differentiation and sensitize glioblastoma cells to chemotherapy.** Cell Commun Signal 22, 434 (2024). <https://doi.org/10.1186/s12964-024-01819-z>

COMPUTER SKILLS FOR DATA ANALYSIS

- Microsoft Office
- Clampex
- ClampFit
- ImageLab
- ImageJ
- Prism – GraphPad
- Origin
- Corel Draw

LANGUAGES

- Italian (Native Speaker)
- English (C1 – advanced)

Autorizzo il trattamento dei miei dati personali ai sensi dell'art. 13 del D. Lgs. 196/2003 e dell'art. 13 GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale.