

Fabrizio De Luca

📍 Pavia (PV), Italia

☎ +39 3245824393

✉ fabrizio.deluca01@universitadipavia.it

15 May 1988

Neurobiologist

Professional experiences

PhD student in Genetics, Molecular and Cellular Biology - Ciclo XXXIV. *2018-in progress*
Cell Biology and Neurobiology laboratory, Biology and Biotechnology department
University of Pavia, Via Ferrata 9, 27100
Cell Biology and Neurobiology Laboratory

- *Research project: "Cellular and molecular studies for the evaluation of the neurotoxic effects of medicinal mushroom supplementation and new platinum-based drugs. Integrated in vitro and in vivo approach."*

Tutorship collaboration in "Neurogenesis and Comparative Neuromorphology". *2020-2021*
Master's degree in Neurobiology, Department of Biology and Biotechnology
"L. Spallanzani ", University of Pavia.

Acquisition of university formative credits (24 CFU) for teaching (CS24). *2019-2020*
Università per stranieri Dante Alighieri, Reggio di Calabria.

Graphic collaborator for De Agostini scuola. *2018-2020*
For the realization of drawings to be included in the work entitled "Citologia e Istologia di Bottone - Biggiogera".

Tutorship collaboration in "Cytology and histology, exercises individual under an optical microscope for the observation of histological preparations from different vertebrate species". *2019-2020*
Bachelor's degree in Biological Sciences, Department of Biology and Biotechnology
"L. Spallanzani ", University of Pavia.

Tutorship collaboration in "Neurogenesis and Comparative Neuromorphology". *2019-2020*
Master's degree in Neurobiology, Department of Biology and Biotechnology
"L. Spallanzani ", University of Pavia.

| | |
|---|------------------------------------|
| <p>Participation in the TRAINING COURSE FOR THE USE OF ANIMALS FOR SCIENTIFIC OR EDUCATIONAL PURPOSES - 1 GENERAL PART: BASIC REGULATIONS, ETHICS AND 3R - 1st Edition. Held at IZSLER - Brescia.</p> | 2019 |
| <p>Participation in THEORETICAL-PRACTICAL LESSONS FOR THE DEEPENING OF THE USE OF CELL CULTURES IN THE FIELD OF BASIC RESEARCH AND DIAGNOSTICS. Held at IZSLER - Brescia.</p> | 2019 |
| <p>Collaboration in the NATIONAL PLAN SCIENTIFIC DEGREES "BIOLOGY AND BIOTECHNOLOGY". Department of Biology and Biotechnology "L. Spallanzani ", University of Pavia.</p> | 2018-2019 |
| <p>Tutorship collaboration in "Neurogenesis and Comparative Neuromorphology". Master's degree in Neurobiology, Department of Biology and Biotechnology "L. Spallanzani ", University of Pavia.</p> | 2018-2019 |
| <p>Tutorship collaboration in "Cytology and histology, exercises individual under an optical microscope for the observation of histological preparations from different vertebrate species". Bachelor's degree in Biological Sciences, Department of Biology and Biotechnology "L. Spallanzani ", University of Pavia.</p> | 2018-2019 |
| <p>Qualified as a Professional Biologist (SEZ.A) University of Palermo.</p> | 2018 |
| <p>Tutorship collaboration in "Neurogenesis and Comparative Neuromorphology". Master's degree in Neurobiology, Department of Biology and Biotechnology "L. Spallanzani ", University of Pavia.</p> | 2017-2018 |
| <p>Volunteer researcher University of Pavia <i>Cell Biology and Neurobiology Laboratory</i></p> | <i>April 2018- September 2018</i> |
| <p>Participation in the "Training course for tutoring collaborators". University of Pavia.</p> | 2017-2018 |
| <p>Master's degree internship in Neurobiology University of Pavia Cell Biology and Neurobiology Laboratory</p> | <i>January 2015- December 2017</i> |
| <ul style="list-style-type: none"> - <i>Research project:</i> In vivo evaluation of the neurotoxic effects of platinum compounds on the central nervous system. | |

- Participation** in the " Seminari in neurobiologia" 2016-2017
- Participation** in the "Big data for neuroscience" conference" 2016
- Participation** in the " Seminari in neurobiologia" 2015-2016

Training

Master's Degree in Neurobiology. 110/110 cum laude. *April 2018*
University of Pavia

- Thesis title: "Evaluation of the neurotoxic effects of platinum compounds on the rat cerebellum during development: inflammatory and oxidative stress pathways"

Bachelor's degree in Biological Sciences *October 2015*
University of Palermo

- Thesis title: "Retinal Pigment Epithelium and induced pluripotent stem cells"

Scientific High School Diploma *July 2006*
- Scientific high school "M. Cipolla", Castelvetro (TP)

Languages

Italian: native language

English: intermediate

Skills and competences techniques / informatics

- C., html
- Windows, Mac OS X, Linux
- Microsoft Excel, Microsoft PowerPoint, Microsoft Word, Microsoft Access
- Paint shop, Photoshop, Inkscape, Blender, Scribus, Image J
- Cell[^]F Multi-fluorescence and imaging Software

Professional skills

- Immunohistochemistry techniques
- Use of optical and fluorescence microscope
- Fixation, inclusion and preparation of histological samples
- Microtomy
- Preparation of slices of brain tissue and histological samples
- Cytological and histological coloring techniques
- Data analysis and statistical processing
- Images creation using vector graphics software
- Microscopic, cytochemical and histochemical techniques, histology and cytology of the central nervous system of vertebrates
- Microscopic techniques of cell biology and of histology and microscopic anatomy of vertebrate organs

Publications and Congresses

E. Roda, **F. De Luca**, C. Di Iorio, D. Ratto, S. Siciliani, B. Ferrari, F. Cobelli, G. Borsci, E. C. Priori, S. Chinosi, A. Ronchi, R. Franco, R. Di Francia, M. Berretta, C. A. Locatelli, A. Gregori, E. Savino, M. G. Bottone, P. Rossi

“Novel Medicinal Mushroom Blend as a Promising Supplement in Integrative Oncology: a Multi-tiered Study using 4T1 Triple-Negative Mouse Breast Cancer Model.” *International Journal of Molecular Sciences*. 2020

D. Ratto, B. Ferrari, E. Roda, F. Brandalise, S. Siciliani, **F. De Luca**, E. C. Priori, C. Di Iorio, F. Cobelli, P. Veneroni, M. G. Bottone, P. Rossi

“Squaring the Circle: A New Study of Inward and Outward-Rectifying Potassium Currents in U251 GBM Cells.” *Cell Mol Neurobiol*. 2020

D. Ratto, F. Corana, B. Mannucci, E. C. Priori, F. Cobelli, E. Roda, B. Ferrari, A. Occhinegro, C. Di Iorio, **F. De Luca**, V. Cesaroni, C. Girometta, M. G. Bottone, E. Savino, H. Kawagishi, P. Rossi

“*Hericium erinaceus* improves recognition memory and induces hippocampal and cerebellar neurogenesis in frail mice during aging.” *Nutrients*. 2019

M. Grimaldi, V. D. Bo, B. Ferrari, E. Roda, **F. De Luca**, P. Veneroni, S. Barni, M. Verri, S. A. De Pascali, F. P. Fanizzi, G. Bernocchi, M. G. Bottone

“Long-term effects after treatment with platinum compounds, cisplatin and [Pt(O,O'-acac)(γ -acac)(DMS)]: Autophagy activation in rat B50 neuroblastoma cells.” *Toxicol Appl Pharmacol*. 2019

E. C. Priori, B. Ferrari, R. Besio, **F. De Luca**, E. Roda, A. Forlino, M. G. Bottone

“Postnatal development of prolidase deficient mice (dal) cerebellum: oxidative and inflammatory pathways evaluation.” *Congresso SII*. 2019

F. De Luca, E. C. Priori, B. Ferrari, S. A. De Pascali, F. P. Fanizzi, M. G. Bottone, E. Roda
“Developmental neurotoxicity of two different platinum compounds, the conventional CisPt and the novel PtacacDMS. Inflammatory and oxidative stress pathways evaluation in rat cerebellum.” ABCD congress. 2018

F. De Luca, E. C. Priori, B. Ferrari, S. A. De Pascali, F. P. Fanizzi, M. G. Bottone, E. Roda
“Evaluation of neurotoxic effects of platinum compounds on developing rat cerebellum: inflammatory and oxidative stress pathways.” FISV congress. 2018