

# Chiara Donati

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## WORK EXPERIENCE

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### *University of Pavia, PhD in Biomedical Sciences*

**City:** Pavia | **Country:** Italy | **Name of unit or department:** Department of Biology and Biotechnology "L. Spallanzani"

[ 10/2025 – Current ] **PhD position, Laboratory of biophysics and physiology of ion channels**

Supervisor: Prof Gerardo Biella, Prof Paolo Spaiardi

### *University of Pavia. Prof. Gerardo Biella - Prof. Francesca Talpo - Prof. Paolo Spaiardi.*

**City:** Pavia | **Country:** Italy | **Name of unit or department:** Department of Biology and Biotechnology "L. Spallanzani"

[ 09/2022 – 09/2025 ] **Internal university internship, Laboratory of biophysics and physiology of ion channels**

## EDUCATION AND TRAINING

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[ 10/2023 – 09/2025 ] **Master's degree in Neurobiology**

### *University of Pavia*

**City:** Pavia | **Country:** Italy | | **Final grade:** 110/110 Cum Laude | **Thesis:** Evaluation of the effect of the drug VA945 on voltage-gated sodium and potassium currents in SH-SY5Y cells differentiated into a neuronal phenotype | Thesis supervisor: SPAIARDI PAOLO

[ 10/2020 – 07/2023 ] **Bachelor's degree in Biological Sciences**

### *University of Pavia*

**City:** Pavia | **Country:** Italy | | **Final grade:** 110/110 Cum Laude | **Thesis:** Electrophysiological characterization of striatal medium spiny neurons differentiated from human embryonic stem cells and engineered to express hM3Dq and KORD | Thesis supervisor: SPAIARDI PAOLO

[ 09/2015 – 06/2020 ] **High school diploma in Scientific Lyceum**

### *Scientific Lyceum "Giuseppe Novello"*

**City:** Codogno (LO) | **Country:** Italy | | **Final grade:** 100/100 Cum Laude

## LANGUAGE SKILLS

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**Mother tongue(s):** Italian

**Other language(s):**

### **English**

**LISTENING** C1 **READING** C1 **WRITING** C1

**SPOKEN PRODUCTION** C1 **SPOKEN INTERACTION** C1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## SCIENTIFIC SKILLS

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### **Whole-cell patch-clamp on cell culture**

Isolation of currents with specific protocols, focal perfusion of drugs, good knowledge of Clampex

### **Cell culture**

Maintenance of SHSY5Y cell lineage, differentiation in neuronal phenotype

### **Analysis**

Good knowledge of MS Office suite

Analysis of electrophysiological recordings with Clampfit and Origin

Basic knowledge of Python programming

## SCIENTIFIC PUBLICATIONS

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J. Cazzola, F. Talpo, G. Faravelli, C. Donati, S. Maramai, M. Saletti, G. Giuliani, M. Paolino, A. Cappelli, M. Anzini, P. Sommi, A. Vitali, A. Sala, A. Trucco, G. R. Biella, P. Spaiardi. Evaluation of a new riluzole-based compound VA945 on sodium and potassium conductances expressed by SH-SY5Y- derived neurons.

J Neurochem. 2025 Nov;169(11):e70280. <http://dx.doi.org/10.1111/jnc.70280>

POSTER J. Cazzola, P. Spaiardi, S. Iannantuoni, C. Donati, S. Maramai, M. Saletti, A.N. Castagno, G. Faravelli, F. Raffin, A. Trucco, F. Talpo, M. Anzini, G.R. Biella. Physiological evaluation of a new Riluzole-based compound as neuroprotective agent.

It was presented at FENS Forum (Wein, June 2024)

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## CERTIFICATIONS AND ADDITIONAL TRAINING

[ 2025 ] **Practical Training Course on the Use of Animals in Scientific Research - specific for Mus Musculus**

Institution: Centro di Servizio interdipartimentale per la gestione unificata delle attività di Stabulazione e di Radiobiologia, University of Pavia

in accordance with the Italian Ministerial Decree of 5 August 2021

[ 2025 ] **Data Science in Everyday Practice - "University in the Colleges" program, University of Pavia**

Course designed for students with no prior background in data analysis, with the goal of providing students with basics of Python programming.

[ 2024 ] **Theoretical Course in Animal Handling**

Institution: Experimental Zooprophyllactic Institute of Lombardy and Emilia-Romagna (IZSLER)

- Biology and Management of Laboratory Animals, Modules 3.1, 4, 5, 6.1, 7 – Ministerial Decree of August 5, 2021 – Rodents and Lagomorphs – 1st Edition
- National Legislation and Ethics – Level 1, Modules 1 and 2 – Ministerial Decree of August 5, 2021 – 1st Edition

[ 2019 ] **Cambridge English Level 2 Certificate in ESOL International (First)**

Performance at Grade A demonstrates an ability at Level 2 and Council of Europe Level C1

[ 2019 ] **ECDL Full Standard Certificate**

It accounts for these 7 modules: Computer Essentials, Online Essentials, Word Processing, Spreadsheets, IT Security, Presentation, Online Collaboration.

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## DISSEMINATION ACTIVITIES

**SHARPER night - European Researchers' Night. "Neuropolis" booth**

Pavia, September 2024

**SHARPER night - European Researchers' Night. "MagicaMENTE!" booth**

Pavia, September 2022-2023

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## INTERPERSONAL AND ORGANISATIONAL SKILLS

**PowerPoint presentations and public speaking abilities**

Presentation of scientific articles and result of experimental activities in public.

**Good team work ability**

Acquired with group projects during high school and university education, where collaboration and presentation of the work done was required.

Formation of new lab students

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## COMPUTER SKILLS

Use of the computer in its basic applications

Use of specific programs for electrophysiological recordings such as Clampex

Use of specific programs for trace analysis (Clampfit) and statistical analysis (Origin)

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## TEACHING ACTIVITIES

[ 2022 – 2024 ]

### Study support

For the preparation of homework, tests and study support in subjects as Maths, Physics, Biology, English for middle school and high school students.

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Pavia, 05/11/2025



Chiara Donati