



Marta Delconti, PhD

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WORK EXPERIENCE

 **UNIVERSITÀ DEGLI STUDI DEL PIEMONTE ORIENTALE** – NOVARA, ITALY

POSTDOCTORAL RESEARCHER – 01/03/2025 – CURRENT

Research fellowship: "Mechanisms underlying neuronal hyperexcitability in chemotherapy-induced peripheral neuropathy".

- Conducted laboratory experiments and managed day-to-day lab operations.
- Participated in designing experiments and contributed to writing scientific articles.
- Responsible for ordering laboratory supplies, maintaining inventory, and organizing the laboratory.
- Managing the laboratory budget.

 **FARMACIA DOTT.SSA CAPORUSSO ANNARITA** – BELLINZAGO NOVARESE, ITALY

OCCASIONAL WORKER: PHARMACIST COLLABORATOR – 13/08/2025 – CURRENT

Pharmacist collaborator.
Software used: Wingsfar

 **FARMACIA MAIRATE** – TRECATE, ITALY

OCCASIONAL WORKER: PHARMACIST COLLABORATOR – 01/01/2022 – CURRENT

Pharmacist collaborator.
Software used: Wingsfar

 **CHEMICARE S.R.L.** – NOVARA, ITALY

RESEARCH PERIOD IN A COMPANY – 09/2022 – 03/2023

Gained specific skills related to the doctoral project during a six-month company experience.

 **FARMACIA MAIRATE** – TRECATE, ITALY

PHARMACIST COLLABORATOR – 06/2021 – 12/2021

Full-time pharmacist collaborator.
Software used: Wingsfar.

 **PIÙ MEDICAL - G.S.M. SRL** – GALLARATE, ITALY

PHARMACIST COLLABORATOR – 12/2020 – 06/2021

Worked full-time as a pharmacist collaborator in a para-pharmacy.

 **FARMACIA SAN CLEMENTE SNC** – BELLINZAGO NOVARESE, ITALY

PHARMACY INTERNSHIP – 31/08/2019 – 29/02/2020

Completed a 900-hour professional internship in pharmacy.

TEACHING EXPERIENCE

01/10/2025 – CURRENT

Integrated Teaching Contract BIO/09 (Physiology) BIOS-06/A

Università degli Studi del Piemonte Orientale

Delivered supplementary lectures and assisted examination commissions.

31/08/2024 – 30/09/2025

Integrated Teaching Contract BIO/09 (Physiology) BIOS-06/A

Università degli Studi del Piemonte Orientale

Delivered supplementary lectures and assisted examination commissions.

01/2025 – 07/2025

Co-supervisor of Master's Experimental Thesis

Co-supervisor of Master's Thesis entitled "**Effetti di carfilzomib e bortezomib sull'omeostasi del calcio in realDRG™**" – Degree program in Pharmaceutical Chemistry and Technology (Università degli Studi del Piemonte Orientale).

12/2023 – 07/2025

Co-supervisor of Master's Review Thesis

Master's Review Thesis entitled "**Store-Operated Calcium Entry neuronale: meccanismi e funzioni**" – Degree program in Pharmacy (Università degli Studi del Piemonte Orientale).

29/02/2024 – 31/08/2024

Tutoring Activities in BIO/09 (Cellular and General Physiology) BIOS-06/A

Università degli Studi del Piemonte Orientale

Conducted weekly in-class tutoring, providing explanations and examples on lecture topics.

31/12/2023 – 31/08/2024

Integrated Teaching Contract BIO/09 (Applied Physiology and Biophysics) BIOS-06/A

Università degli Studi del Piemonte Orientale

Conducted supplementary exercises and laboratory activities.
Supported the examination commission and compiled activity records.

11/2023 – 07/2024

Co-supervisor of Bachelor's Experimental Thesis

Bachelor's Experimental Thesis entitled "**Ruolo di STIM e ORAI nell'alterazione dell'omeostasi dello ione calcio indotta da paclitaxel in neuroni sensoriali**" – Degree program in Medical Biotechnology (Università degli Studi del Piemonte Orientale).

28/02/2023 – 31/08/2023

Tutoring Activities in BIO/09 (Cellular and General Physiology) BIOS-06/A

Università degli Studi del Piemonte Orientale

Conducted weekly in-class tutoring, providing explanations and examples on lecture topics.

12/2022 – 06/2023

Co-supervisor of Master's Experimental Thesis

Co-supervisor of Master's Thesis entitled "**Alterazioni precoci dell'omeostasi del calcio e del pH intracellulare indotte da paclitaxel in neuroni sensoriali**" – Degree program in Pharmaceutical Chemistry and Technology (Università degli Studi del Piemonte Orientale).

30/09/2019 – 30/11/2019

Part-time Student Collaborator (Medicinal Analysis I)

Università degli Studi del Piemonte Orientale

Assisted in setting up and operating the Medicinal Analysis I laboratory.

31/12/2018 – 31/01/2019

University Tutor (Medicinal Analysis I)

Università degli Studi del Piemonte Orientale

Prepared educational materials, supported students, and assisted professor during classroom exercises and laboratory sessions.

30/09/2018 – 30/11/2018

Part-time Student Collaborator (Medicinal Analysis II)

Università degli Studi del Piemonte Orientale

Assisted in the setup and operation of the Medicinal Analysis II laboratory.

09/2017 – 05/2018

High School learning mentor

Campus Carlo Alberto

Provided specific tutoring to high school students in the scientific field.
Assisted with homework and explained academic topics.

● **EDUCATION AND TRAINING**

01/01/2022 – 31/12/2024 Novara, Italy

PHD IN DRUG INNOVATION Università degli Studi del Piemonte Orientale

PhD scholarship on GREEN and INNOVATION topic under the Programma Operativo Nazionale (PON) “Ricerca e Innovazione” 2014 – 2020, funded by ESF – REACT-EU (D.M. 1061/2021), within the 37th PhD cycle.

- Conducted laboratory experiments and managed day-to-day lab operations.
- Participated in designing experiments and contributed to writing scientific articles.
- Responsible for ordering laboratory supplies, maintaining inventory, and organizing the laboratory.
- Managing the laboratory budget.

Thesis 24/07/2025

10/2022 – 10/2022

24 ECTS IN PEDAGOGY, PSYCHOLOGY, ANTHROPOLOGY, AND TEACHING METHODOLOGIES Università Telematica Pegaso

Required for teaching qualification in Italy.

- Didattica dell'inclusione
- Tecnologie dell'istruzione e dell'apprendimento
- Antropologia culturale
- Psicologia generale

16/11/2020 Novara, Italy

LICENSE TO PRACTICE AS A PHARMACIST Università degli Studi del Piemonte Orientale

Passed the professional state exam.

2015 – 2020 Novara, Italy

MASTER'S DEGREE IN CHEMISTRY AND PHARMACEUTICAL TECHNOLOGIES (LM-13) Università degli Studi del Piemonte Orientale

Final grade full marks | **Thesis** 13/11/2020

2010 – 2015 Novara, Italy

HIGH SCHOOL DIPLOMA Liceo Scientifico Carlo Alberto (Applied Sciences)

● **LICENSES AND CERTIFICATIONS**

24/01/2022 – 16/02/2023

Certificate in Animal Handling and Laboratory Procedures (Mouse and Rat)

Theoretical and Practical Training for Work in Animal Facilities (Stabulatory). Species: Mouse and Rat. Function A (Carrying out minor procedures on animals in research)

Modules:

- Biology and Management of Laboratory Animals – 3.1, 4, 5, 6.1, 7 (Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna)
- National Legislation and Ethics Level 1 – 1, 2 (Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna)
- Ethics and Project Design – 9, 10, 11 (Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna)
- Basic Biology – 3.2 (Charles River Italia User Facility)
- Euthanasia – 6.2 (Charles River Italia User Facility)
- Minimally Invasive Procedures without Anesthesia – 8 (Charles River Italia User Facility)

12/2020

Member of the Professional Order of Pharmacists of Novara and V.C.O. Provinces .

N. 2608

● PUBLICATIONS

2025

[**Paclitaxel activates SOCE/ICRAC in dorsal root ganglion neurons: implications for paclitaxel-induced peripheral neuropathy**](#)

Delconti M., Ravasenga T., Dionisi M., Romanazzi T., Chiazza F., Giatti S., Lim D., Genazzani A.A., Riva B., Meregalli C., Cavaletti G., Distasi C.

Cell Calcium

2024

[**Genetic deletion of astrocytic calcineurin B1 prevents cognitive impairment and neuropathology development in acute and chronic mouse models of Alzheimer's disease**](#)

Tapella L., Dematteis G., La Vitola P., Leva S., Tonelli E., Raddi M., **Delconti M.**, Dacomo L., La Macchia A., Murari E., Talmon M., Malecka J., Chrostek G., Grilli M., Colombo L., Salmona M., Forloni G., Genazzani A.A., Balducci C., Lim D.

GLIA

2023

[**Inhibition of NHE1 transport activity and gene transcription in DRG neurons in oxaliplatin-induced painful peripheral neurotoxicity**](#)

Dionisi M., Riva B., **Delconti M.**, Meregalli C., Chiorazzi A., Canta A., Alberti P., Carozzi V., Pozzi E., Lim D., Genazzani A.A., Distasi C., Cavaletti G.

Scientific Reports

● CONFERENCES AND SEMINARS

12/11/2024 – 12/11/2024 Naples

National Meeting of PhD Students in Neuroscience 2024 (SINS 2024)

Poster presented at Italian Society for Neuroscience (SINS 2024).

"Proteasome inhibitors-based chemotherapy-induced neurotoxicity: mitochondrial, calcium signalling and cytoskeleton alterations."

Delconti M., Tonelli E., Malacrida A., Iseppon F., Fabbro V., Pero M.E., Pendin D., Lim D., Distasi C., Meregalli C.

12/11/2024 – 12/11/2024 Naples

National Meeting of PhD Students in Neuroscience 2024 (SINS 2024)

Poster presented at Italian Society for Neuroscience (SINS 2024).

"Bortezomib-induced mitochondrial dysfunction in Schwann cells: a novel perspective on chemotherapy-induced peripheral neuropathy."

Tonelli E., Dematteis G., **Delconti M.**, Distasi C., Lim D., Giatti S., Meregalli C.

02/10/2024 – 04/10/2024

The Neuroscience of Cancer ("More than Neurons" conference)

Poster presented at The Neuroscience of Cancer.

"Role of ER-mitochondria interaction in the mechanism of chemotherapy-induced peripheral neuropathy."

E. Tonelli, G. Dematteis, L. Tapella, **M. Delconti**, C. Distasi, S. Giatti, A. Scuteri, C. Meregalli, D. Lim.

11/09/2024 – 13/09/2024 Rome

74th SIF National Congress (SIF 2024)

Poster presented at The Italian Society of Physiology (SIF 2024).

"Paclitaxel acutely activates ICRAC in sensory neurons: implications for paclitaxel-induced peripheral neuropathy."

Delconti M., Dionisi M., Ravasenga T., Romanazzi T., Riva B., Lim D., Genazzani A.A., Meregalli C., Cavaletti G., Distasi C.

01/09/2024 – 04/09/2024 Cambridge

17th International meeting of the European Calcium Society (ECS 2024)

Poster presented at the European Calcium Society (ECS 2024).

"Chemotherapy-induced peripheral neuropathy: a focus on mitochondria and ER-mitochondria interaction."

E. Tonelli, G. Dematteis, **M. Delconti**, C. Distasi, D. Lim, S. Giatti, C. Meregalli.

12/04/2024 – 13/04/2024 Turin

1° congresso del comitato degli amici della morfologia (MorFuture 2024).

Poster presented at 1° congresso del comitato degli amici della morfologia (MorFuture 2024).

"Chemotherapy-induced peripheral neuropathy: a focus on er-mitochondria interactions."

E. Tonelli, G. Dematteis, **M. Delconti**, C. Distasi, D. Lim, S. Giatti, C. Meregalli.

21/02/2024 Università degli Studi del Piemonte Orientale

PhD Student Seminar

Presented the seminar titled **"Recent Advances in Biosensors: Detection of Estrogens"**.

06/07/2022 – 13/07/2022 Bologna

41th International Conference on High Energy Physics (ICHEP 2022)

Parallel Talk at the International Conference on High Energy Physics (ICHEP 2022).

"Quantifying calcium concentration in living cells through detection of photoluminescence single photon trails."

G. Vesco, N. Ampilogov, M. Caccia, **M. Delconti**, C. Distasi, D. Lim, F.A. Ruffinatti, R. Santoro.

● PROJECTS

01/03/2025 – CURRENT

Postdoctoral Project

"Mechanisms Underlying Neuronal Hyperexcitability in Chemotherapy-Induced Peripheral Neuropathy" –

Postdoctoral Research Project carried out at the Cellular Physiology and Biophysics Laboratory (Prof. Distasi), Department of Pharmaceutical Sciences, Università degli Studi del Piemonte Orientale.

Investigation of the mechanisms underlying alterations in excitability and Ca²⁺ homeostasis in murine sensory neurons and iPSC-derived nociceptors in chemotherapy-induced peripheral neuropathy (bortezomib and paclitaxel), using electrophysiological (MEA, Patch-Clamp) and Ca²⁺ imaging techniques.

01/01/2022 – CURRENT

Collaborator on Cariplo Foundation grant

"Understanding the role of tubulin post-translational modification and mitochondrial impairment in bortezomib-induced peripheral neurotoxicity - 2019-1482".

Investigation of mitochondrial impairment in bortezomib-induced peripheral neurotoxicity using Ca²⁺ imaging techniques.

01/01/2022 – 31/12/2024

Collaborator on MIUR-PRIN 2017

"Pathogenesis of Chemotherapy-Induced Peripheral Neurotoxicity (Pa-CIPN) - 2017ZFJCS3" – Research collaborator on MIUR-PRIN project awarded to PI Prof. Cavaletti, as part of Prof. Distasi's research group (Università degli Studi del Piemonte Orientale).

Investigation of the mechanisms underlying alterations in excitability and Ca^{2+} homeostasis in murine sensory neurons in chemotherapy-induced peripheral neuropathy using Ca^{2+} imaging techniques and molecular biology approaches.

01/01/2022 – 31/12/2024

Doctoral Research Project and Thesis

"Development of biosensors based on cells for real-time environmental monitoring of estrogen and xenoestrogen dispersion and toxicity in water" – Doctoral Research Project carried out at the Cellular Physiology and Biophysics Laboratory (Prof. Distasi), Department of Pharmaceutical Sciences, Università degli Studi del Piemonte Orientale.

Development of a biosensor using molecular biology techniques (transfection, viral infection) and validation with Ca^{2+} imaging and aequorin assays. Characterization and qualification of silicon photomultipliers.

01/03/2020 – 13/11/2020

Experimental Master's Thesis

"Characterization and preliminary validation of Inducible Knock Out of Calcineurin in Astrocytes in Triple Transgenic mouse model of Alzheimer's Disease" – Research project carried out at the Physiology Laboratory (Prof. Lim), Department of Pharmaceutical Sciences, Università degli Studi del Piemonte Orientale.

Validation of an inducible knock-out model of calcineurin in astrocytes in a triple-transgenic mouse model of Alzheimer's disease using real-time PCR and behavioral testing (Barnes maze).

● **SKILLS**

Laboratory

Calcium imaging | pH imaging | imaging techniques | Molecular biology laboratory methods | Cell Culture (cell line) | Primary Cell Culture | Dissection of mice | Live cell imaging | Behavioral tests | Confocal microscopy | Cell transfection | Viral infection | Basic electrophysiology | Use of Silicon Photomultipliers

Computer Skills

Knowledge of programming languages (C, C++, Pascal, Java) | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | OriginPro Software | Imagej | LASX Leica microscopy software | MetaMorph | Data analysis

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s): **ENGLISH**

● **HOBBIES AND INTERESTS**

PADI Open Water Diver (OWD)

autonomous diver certification for recreational scuba diving

PADI Advanced Open Water Diver (AOWD)

autonomous diver certification for recreational scuba diving