



Chiara Cervetto

Work permit: Italian **Nationality:** Italian **Date of birth:** 07/10/1977

Place of birth: Genova, Italy **Gender:** Female **Phone number:** (+39) 0103352038

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Work: Viale Cembrano 4 University of Genova. Department of Pharmacy, Pharmacology and Toxicology Section, II floor, 16148 Genova (Italy)

WORK EXPERIENCE

University of Genova, – Genova, Italy

City: Genova | **Country:** Italy | **Name of unit or department:** Department of Pharmacy (DIFAR), Section of Pharmacology and Toxicology

Associate Professor BIOS-11/A ex BIO/14 - Pharmacology

[01/01/2022 – Current]

School of Medical and Pharmaceutical Sciences, Department of Pharmacy (DIFAR), Section of Pharmacology and Toxicology

Research and teaching

– Italy

Country: Italy

National scientific qualification as Academic Associate Professor

[06/11/2018]

Concurring Sector (D.M. n.336 of 29/07/2011): 05/G1 - Pharmacology, Clinical Pharmacology and Pharmacognosy (BANDO D.D. 1532/2016)

EURL-ECVAM, Joint Research Centre – Ispra (Varese), Italy

City: Ispra (Varese) | **Country:** Italy

Visiting Researcher

[27/02/2018]

European Union Reference Laboratory for alternatives to animal testing (EURL-ECVAM) at the Joint Research Centre, Ispra (Varese, Italy) in the laboratories of Dott. Anna Bal Price and Dott. Francesca Pistollato

Research

University of Genova – Genova, Italy

City: Genova | **Country:** Italy

Researcher on permanent contract (RTI) BIOS-11/A ex BIO/14 - Pharmacology

[01/05/2012 – 31/12/2021]

School of Medical and Pharmaceutical Sciences, Department of Pharmacy (DIFAR), Section of Pharmacology and Toxicology.

Research and teaching

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Researcher on permanent contract (RTI) BIOS-11/A ex BIO/14 - Pharmacology

[01/11/2010 – 30/04/2012]

Faculty of Mathematics, Physics and Natural Sciences. Department of Experimental Medicine (DIMES), Section of Pharmacology and Toxicology.

Research and teaching

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Post-doctoral fellow

[01/12/2009 – 04/01/2010]

OCCASIONAL WORK ACTIVITY IN RESEARCH ACTIVITIES, collaboration with Prof. Guido Maura, activity carried out at DIMES, Sect. Pharmacology and Toxicology, University of Genova within the framework of in vitro studies on the modulation of glutamate release.

Research and teaching support

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Post-doctoral fellow

[15/05/2009 – 14/09/2009]

OCCASIONAL WORK ACTIVITY IN RESEARCH ACTIVITIES, collaboration with Prof. Sergio Martinoia & Prof. Guido Maura, activity carried out at DIMES, Sect. Pharmacology and Toxicology, and Department of Electronic Biophysical Engineering, University of Genoa, as part of in vitro studies on the modulation of glutamate release by neuronal networks coupled to MEAs.

Research and teaching support

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Post-doctoral fellow

[15/01/2009 – 14/05/2009]

OCCASIONAL WORK ACTIVITY IN RESEARCH ACTIVITIES, collaboration with Prof. Mario Marchi, activity carried out at DIMES, Sect. Pharmacology and Toxicology, University of Genova within the Research Project “Plasticity of presynaptic nicotinic and glutamatergic receptors that modulate the release of neurotransmitters: study of changes in their functions after chronic treatment or following interactions with other receptor systems or other experimental conditions”.

Research and teaching support

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Post-doctoral fellow

[02/01/2008 – 01/01/2009]

RESEARCH GRANT FOR COLLABORATION IN RESEARCH ACTIVITIES (Italian Law n. 449, art.51, comma 6, 27.12.1997), collaboration with Prof. Guido Maura, activity carried out at DIMES, Sez. Pharmacology and Toxicology, University of Genova. Biological Sciences, Scientific Disciplinary Area BIO/14. Collaboration in Research Activities for the programme ‘Ionotropic glutamate receptors and excitatory transmission in the central nervous system’; Research grant funded by Fondazione Carige

Research and teaching support

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Post-doctoral fellow

[01/07/2007 – 01/01/2008]

CONTRACT FOR COLLABORATION IN RESEARCH ACTIVITIES, collaboration with Prof. Guido Maura, activity carried out at DIMES, Sez. Pharmacology and Toxicology University of Genova. This activity was carried out as part of the Research Project 'Brain damage due to neonatal hypoxia: pharmacological control of glutamate accumulation and excess cytoplasmic calcium' funded by the Pierfranco and Luisa Mariani ONLUS Foundation, Child Neurology.

Research and teaching support

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Post-doctoral fellow

[01/02/2007 – 30/06/2007]

CONTRACT FOR COLLABORATION IN RESEARCH ACTIVITIES, collaboration with Prof. Guido Maura, activity carried out at DIMES, Sez. Pharmacology and Toxicology University of Genova. This activity was carried out as part of the Research Project 'Brain damage due to neonatal hypoxia: pharmacological control of glutamate accumulation and excess cytoplasmic calcium' funded by the Pierfranco and Luisa Mariani ONLUS Foundation, Child Neurology.

Research and teaching support

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Post-doctoral fellow

[01/03/2006 – 30/11/2006]

CONTRACT FOR COLLABORATION IN RESEARCH ACTIVITIES, activity carried out at DIMES, Sez. Pharmacology and Toxicology University of Genova, within the in vitro studies on the modulation of glutamate release.

Research and teaching support

 **University of Torino** – Torino, Italy

City: Torino | Country: Italy

Visiting Research

[01/2006 – 12/2007]

Department of Anatomy, Pharmacology and Forensic Medicine, University of Turin (Italy): 4-5 days/month for collaboration with Prof. Alessandro Vercelli and Dr. Marina Boido in the preparation of BMSC cell cultures from mouse bone marrow

Research

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

PhD Student

[01/03/2003 – 28/02/2006]

PhD COURSE IN NEUROCHEMISTRY AND NEUROBIOLOGY - Experimental, Molecular and Clinical Biology and Medicine, University of Genova

Research and teaching support

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Graduated Student

[01/12/2002 – 28/02/2003]

POST-GRADUATED RESEARCH ACTIVITY at DIMES, Section Pharmacology and Toxicology, University of Genova
Research

 **University of Genova** – Genova, Italy

City: Genova | Country: Italy

Ungraduated Student

[01/11/2000 – 07/11/2002]

PRE-GRADUATED GRADUATED RESEARCH ACTIVITY for experimental thesis at DIMES, Section Pharmacology and Toxicology, University of Genova
Research

EDUCATION AND TRAINING

Degree in Pharmaceutical Chemistry and Technologies

University of Genova [07/11/2002]

City: Genova | Country: Italy | Final grade: 110 cum laude | Thesis: “Study on the interaction between excitatory and inhibitory receptors in primary cultures of motoneurons”. Supervisor Prof. M. Raiteri

- primary cell culture
- neurotransmitter release
- neuropharmacology

Qualification to the Profession of Pharmacist (State Examination)

University of Genova [06/2003]

City: Genova | Country: Italy

I session

PhD in Neurochemistry and Neuobiology

University of Genova [17/05/2006]

City: Genova | Country: Italy | Field(s) of study: Course in Molecular, Experimental and Clinical Biology and Medicine (XVII cycle) | Thesis: “Pathophysiology of glutamatergic transmission: modulation by 5-HT1D, 5-HT1A and P2X7 receptors in the human and rat central nervous system” PhD Supervisor Prof. G. Maura.

in vitro and ex vivo human and animal models
glutamate transmission
receptors and intracellular pathways
neuropharmacology

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Spanish

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

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

SKILLS

Microsoft Office / Microsoft Word / Microsoft Excel / Microsoft Powerpoint / Social Media / Google Drive / Outlook / cell cultures / functional assays / molecular characterization / pharmacological studies / ex vivo models

PUBLICATIONS

-

The reasearch activity is documented by many peer-review pubblications (as first, last or corresponding Author).

ID Scopus: 6505938609

ORCID: 0000-0001-8290-3008

Web of Science Researcher ID: G-6404-2010

HONOURS AND AWARDS

Italian National Society - Società Italiana di Neuroscienze (SINS)

TRAVEL GRANT

Travel grant for partecipation of the Italian National Congres of SINS - Milano (Italy) 2-5 October 2005

Italian Society of Pharmacology - Società Italiana di Farmacologia (SIF)

BEST POSTER AWARD

Best poster award during the 34th National Congress of SIF - Rimini (Italy) 14-17 October 2005

Award for Young Researcher

Young & Research - Memorial Mario Mai; Santa Margherita – Genova (Italia) - 22 May 2015

Global Medical Discovery

KEY SCIENTIFIC ARTICLE

Award for the publication *Agnati LF, Guidolin D, Cervetto C, Borroto-Escuela DO, Fuxe K (2015) Role of iso-receptors in receptor-receptor interactions with a focus on dopamine iso-receptor complexes Reviews in the Neurosciences 27: 1-25*

Global Medical Discovery “a Key Scientific Article contributing to excellence in biomedical research”

21 March 2016

ANVUR

FFABR

Admission to the individual annual finacial plan for the reasearch activity - FINANZIAMENTO ANNUALE INDIVIDUALE DELLE ATTIVITÀ BASE DI RICERCA (FABBR)

ANVUR: AGENZIA NAZIONALE DI VALUTAZIONE DEL SISTEMA UNIVERSITARIO E DELLA RICERCA; Italia - Italian agency for the evaluation of the university sistem and research.

2017

TEACHING ACTIVITY

[2006 – 2009]

Integrative Activity in Teaching (art. 33 statute of the University of Genova) - Faculty of Mathematics, Physics and Natural Sciences, University of Genova

- *CYTOTOXICOLOGY* (c.i. Environmental Toxicology) Master's Degree in Biological Monitoring Science and Technology
- *TOXICOLOGY* (c.i. Ecological Cytotoxicology) Degree in Biological Sciences – Ecophysiology
- *PHARMACOLOGY III*, Degree in Biological Sciences - Health Biology

[2011 – Current]

Professor for Bachelor's Degree or Master's Degree at University of Genova

- AA 2011/2012 - 2018/2019 Professor of *TOXICOLOGY* (66712; 3CFU = 24 hours) – Master's Degree in Biological Monitoring; Department of Earth, Environmental and Life Sciences (DISTAV; School Mathematics, Physics and Natural Sciences, ex Faculty of Mathematics, Physics and Natural Sciences) University of Genova
- AA 2013/2014 - 2023/2024 Professor of *FUNDAMENTALS OF PHYSIOLOGY AND PHARMACOLOGY* (Module of *Pharmacology*; 61410; 4CFU = 36 hours) - Bachelor's Degree in Chemistry and Chemical Technologies; Department of Chemistry and Industrial Chemistry; School Mathematics, Physics and Natural Sciences, University of Genova
- AA 2018/2019 – 2023/2024 Professor of *PHARMACOLOGY* (57289; 6CFU, professor for 1CFU = 8 hours) - Bachelor's Degree in Biological Sciences, DISTAV; School Mathematics, Physics and Natural Sciences, University of Genova
- **Since AA 2018/2019** Professor of **MARINE PHARMACOLOGY** (98319; **2CFU = 16 hours**) – Master's Degree in Marine Ecology and Biology, DISTAV; School Mathematics, Physics and Natural Sciences, University of Genova
- AA 2020/2021 – 2023/2024 Professor of *TOXICOLOGY* (104224; 6CFU = 48 hours) - Master's Degree in Experimental and Applicant Biology, DISTAV; School Mathematics, Physics and Natural Sciences, University of Genova
- AA 2020/2021 – 2023/2024 Professor of *FOOD TOXICOLOGY* (104210; 6CFU = 48 hours) - Master's Degree in Experimental and Applicant Biology, DISTAV; School Mathematics, Physics and Natural Sciences, University of Genova
- **Since AA 2024/2025** Professor of **TOXICOLOGY** (104224; 6CFU, professor for **3CFU = 24 hours**) - Master's Degree in Experimental and Applicant Biology, DISTAV; School Mathematics, Physics and Natural Sciences, University of Genova
- **Since AA 2024/2025** Professor of **PHARMACOLOGY** (57289; **6CFU = 48 hours**) – Bachelor's Degree in Biological Science, DISTAV; School Mathematics, Physics and Natural Sciences, University of Genova
- **Since AA 2024/2025** Professor of **SPECIAL PHARMACOLOGY** (66684; 6CFU, professor for **3CFU = 24 hours**) Master's Degree in Experimental and Applicant Biology, DISTAV; School Mathematics, Physics and Natural Sciences, University of Genova
- **Since AA 2024/2025** Professor of **GENERAL PHARMACOLOGY** (Module of GENERAL PHARMACOLOGY & PHARMACOGNOSY (CTF) c.i. 111626; 10CFU, professor for **5CFU = 40 hours**) Master's Degree (Ciclo Unico) – Pharmacology Chemistry and Technology, DIFAR; School of Medical and Pharmaceutical Sciences, University of Genova
- **Since AA 2024/2025** Professor of **SPECIAL PHARMACOLOGY** (66684; 6CFU, professor for **3CFU = 24 hours**) Master's Degree (Ciclo Unico) – Pharmacology Chemistry and Technology, DIFAR; School of Medical and Pharmaceutical Sciences, University of Genova

[2010 – Current]

Professor for UNIGE SENIOR and HIGHER EDUCATION

- AA 2009-2010 Professor for *II° LEVELS MASTER'S DEGREE*, Centre for Continuing Education, University of Genova. MASTER IN MANAGEMENT OF CHEMICALS - SAFETY AND ENVIRONMENTAL IMPACT OF CHEMICALS - Safety

and environmental impact of chemically classified substances: integrated approach to EC 1907/06 - REACH code DPU09MASTER/700. *NEUROTOXICITY OF NERVOUS CELL DAMAGE MECHANISMS* (4 hours).

- AA 2022/2023 Professor for *UNIGE SENIOR, MARINE DRUGS* Medicine and Pharmacy Area (2 hours).
- **Since AA 2023/2024** Professor for *PhD School in Experimental Medicine*, Curriculum: Pharmacology and Toxicology, University of Genova ***SUPERFUSED SYNAPTOSOMES AND GLIOSOMES TO STUDY NEURO- AND GLIOTRANSMISSION IN THE CNS*** (4 hours)
- **Since AA 2023/2024** Professor for *IANUA SCUOLA SUPERIORE* – Master's level. ***BIOMEDICAL RESEARCH: FROM THE APPLICATION OF NON-CONVENTIONAL STRATEGIES TO REGULATION*** (113214 2CFU = 12 hours)

[2004 – Current]

TUTORIAL ACTIVITY AND ASSISTANCE FOR THESIS AND PHD STUDENTS

- **Since 2004:** Tutoring and assistance to students of the Faculty of Mathematics, Physics and Natural Sciences (now DISTAV) Faculty of Pharmacy (now DIFAR) for thesis diploma and master's degree in Pharmacology with activities carried out at DIMES and DIFAR; University of Genova
- Since 2012: PhD student assistance for research activities, School of Experimental, Molecular and Clinical Medicine and Biology; Area 05: Biological Sciences; Course: Biochemistry, Address: Neurochemistry and Neurobiology, become PhD School in Experimental Medicine, Curriculum: Pharmacology and Toxicology, University of Genova - PAOLA PALUZZI (2011); MARIA CHIARA MAZZOTTA (2012); DANIELA FRATTAROLI (2013); ARIANNA VENTURINI (2018); SIMONE PELASSA (2021); SARAH AMATO (2024)
- **Since 2023** Tutor of PhD student ELISA FARSETTI, PhD School in Experimental Medicine, Curriculum: Pharmacology and Toxicology, University of Genova

RESEARCH FIELDS OF INTEREST

[2000 – Current]

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The research focuses on the functional aspects of neurotransmission and gliotransmission in the central nervous system (CNS), under physiological and pathological conditions, on exocytotic and non-exocytotic release mechanisms, through exosomes. It also focuses on pharmacological targets by characterising the intracellular transduction pathways activated by G-protein-coupled receptors and receptor-receptor interactions. Targets under study include the P2X7 receptor and its coupling with pannexin-1, as well as the NMDA, AMPA and kainate glutamate receptors and their involvement in excitotoxicity and vulnerability to epilepsy in in vivo and in vitro models. Other studied targets include receptor heteromers involving different GPCRs, such as A2A, D2 and the oxytocin receptor. There is also interest in developing 2D and 3D neuronal networks for in vitro biological models that are suitable for neuropharmacological and neurotoxicological studies. Finally, research in the last period has also focused on the molecular and functional mechanisms underlying photobiomodulation and transmission in primary cultures of astrocytes and in neurons derived from human iPSCs.

INSTITUTIONAL ACTIVITIES IN OR FOR THE DEPARTMENT – UNIVERSITY OF GENOVA

[2012 – 2017]

Member of DIFAR Space Allocation Commission

Write here the description...

[2014 – 2018]

Member of DIFAR Scientific Commission

Member for UNIGE in the Directive Scientific Committee of the Inter-University Centre for the Promotion of the 3R Principles in Education and Research (3R Centre)

[2017 – Current]

Member of DIFAR Commission for PCTO and Orientation

[08/2017 – Current]

Member of the DIFAR Emergency Equipe

[2025 – Current]

Member for UNIGE in the Directive Scientific Committee of 3R Centre

AFFILIATION TO SCIENTIFIC SOCIETIES

[2006 – Current]

Member of Italian Society of Pharmacology (SIF)

[2006 – Current]

Member of Italian Neuroscience Society (SINS)

[2008 – Current]

Member of Federation of European Neuroscience Societies (FENS)

[2008 – Current]

Member of International Brain Research Organisation (IBRO)

AFFILIATION TO RESEARCH CENTRE AND TEACHING BOARDS

[2010 – Current]

Member of Faculty, Departments, Research Center and Teaching Boards

- 2010 (01/11/2010) – 2012 (30/04/2012): Member of the Faculty of Mathematics, Physics and Natural Sciences; University of Genova
- 2011- 2012(30/4/2012): Member of the Department Council of DIMES, University of Genova
- **Since 2012: Member of the Department Council of DIFAR**, University of Genova
- 2010 – 2016: Member, Inter-department Research Centre for Eco-compatibility, Safety and Innovation of Chemical Substances (C.R.E.S.I.S.), University of Genova
- AA 2011/2012 – 2018/2019: Member of the Commission of Study Course *Biological Monitoring*; DISTAV; University of Genova
- 2012-2016 and since 2020: **Member of the Teaching Council of the PhD School “Experimental Medicine”**, DIMES, University of Genova
- AA 2013/2014 – 2023/2024: Member of the Commission of Study for the Course Chemistry and Chemical Technologies; DCCI; University of Genova
- **Since 2017: Member of the Inter-University Centre for the Promotion of the 3R Principles in Education and Research (3R Centre)**
- **Since AA 2018/2019: Member of the Commission of Study for the Course Marine Ecology and Biology** (Master's Degree) and **for the Course Biological Sciences** (Bachelor's Degree); DISTAV; University of Genova
- **Since AA 2020/2021: Member of the Commission of Study for the Course Experimental and Applied Biology** (Master's Degree); DISTAV; University of Genova
- **Since AA 2024/2025: Member of the Commission of Study for the Courses Pharmacy** (Master's Degree) and **Pharmaceutical Chemistry and Technology** (Master's Degree); DIFAR; University of Genova

Genova, 25/06/2025

