

CURRICULUM VITAE

Prof. ANNA MARIA CHIARINI

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Education

- High School Certificate obtained at the Liceo Classico "Bellini Pastore" in Castiglione delle Stiviere (MN) (Italy), in July 1983.
- Master's Degree in Biological Sciences obtained at the University of Milan in July 1988. Title of Thesis: "Studio dell'interazione tra l'acetilcolinesterasi e i gangliosidi".
- Certificate in Clinical Chemistry and Biochemistry obtained at the University of Milan in November 1992.
- Research Doctor (PhD) in Chronic & Degenerative Diseases, University of Verona, (May 2007)

Professional Experience

- Full-time Attendance (February 1987-July 1988) at the Department of Medical Chemistry and Biochemistry, directed by Prof. G. Tettamanti, University of Milan.
- Researcher Activity with fellowship (September 1988-July 1993) at the Department of Medical Chemistry and Biochemistry, directed by Prof. G. Tettamanti, University of Milan.
- Research Scientist (September 1993-August 1995) at the Roche Immunodiagnostic Research Laboratory, Roche S.p.A in Milan.
- Research Scientist (September 1995-August 1996) at the Laboratory of Immunodiagnostic-R&D Hoffmann-La Roche in Basilea (Switzerland).
- Researcher Activity with fellowship (February 1997-July 2002) at the Histology and Embryology Unit (directed by Prof. U. Armato), University of Verona.
- Assistant Professor (October 2002-September 2023) (SSD: BIO/17 Histology) after winning a national contest (July 2002), University of Verona.
- Assistant Professor (October 2023-September 2025) (SSD: MEDS-26/D Advanced Medical and Surgical Technology and Methodology) at the Department of Surgery & Dentistry & Pediatrics, and Gynecology, University of Verona.
- Associate Professor (October 2025-Present) (SSD: MEDS-26/D Advanced Medical and Surgical Technology and Methodology) at the Department of Surgery & Dentistry & Pediatrics, and Gynecology, University of Verona.

Teaching Activities

Bachelor's Degree Programs (University of Verona)

Professor of Histology in the following degree programs:

- Biomedical Laboratory Techniques, Rovereto (TN) Campus, 1997/98
- Biomedical Laboratory Techniques, Verona Campus, from 2013-14 to 2022/23
- Nursing, Trento Campus, 2000/01
- Nursing, Vicenza Campus, from 2004/05 to 2019/20
- Nursing, Verona Campus, 2012/13
- Dental Hygiene, Verona Campus, from 2017/18 to 2022/23

Coordinator of the course "Morphological and Functional Foundations of Life" in the above-mentioned degree programs.

Professor of Methods of Oral Hygiene Education in the Bachelor's Degree Program in Dental Hygiene, Verona Campus, from 2025/26 to present

Professor in Dental Hygiene Techniques for Patients with Systemic Diseases in the Bachelor's Degree Program in Dental Hygiene, Verona Campus, from 2025/26 to present

Professor of Professional Ethics and Organizational Models of the Profession in the Bachelor's Degree Program in Dental Hygiene, Verona Campus, from 2025/26 to present

Master's Degree Programs (University of Verona)

Master's Degree Program in Sciences of Technical Healthcare Professions

-Professor of Sciences and Techniques in Healthcare 1 – Translational Research: Methods and Regulatory Aspects, from 2025/26 to present

- Professor for Professional Laboratories – How to Write a Scientific Article, from 2025/26 to present

Master's Degree Program in Bioinformatics and Medical Biotechnology

- Professor of Histology, from 2010/11 to 2014/15.

As a professor of Histology, she contributed to lectures and laboratory sessions for students in the Master's Degree Program in Medicine and Surgery at the University of Verona (from 1997/98 to 2012/13)

Lecturer for the elective course "Stem Cells" for students in the Bachelor's Degree Program in Medicine and Surgery from 2003/04 to 2009/10

Postgraduate Training (University of Verona)

Specialization School

Lecturer of Histology and Embryology in the Specialization School in Plastic, Reconstructive, and Aesthetic Surgery from 2007/08 to 2013/14

Master's Program

Lecturer of Hand Embryology in the Master's Program in Hand Surgery (Verona) 2003.

Doctoral Programs (University of Verona)

- Member of the faculty Board of PhD Course in Cardiovascular Sciences (October 2006-September 2013).

- Member of the faculty Board of PhD Course in Clinical and Experimental Biomedical Sciences (October 2013-September 2014; and October 2017/September 2023).

- Member of the faculty Board of PhD Course in Regenerative and Translational Medicine (October 2024-Present).

Orientation and Tutoring Courses (University of Verona)

Corporate tutor for the training and orientation internship program for students in the Biotechnology degree program, 2015/16

Lecturer for the course "Fundamentals of Histology: Human Cells and Tissues" as part of the "Progetto Tandem" Orientation and Tutoring Program (2012/13 and 2013/14).

Lecturer for the course "Human Cells and Tissues," as part of the "Progetto Tandem" Orientation and Tutoring Program (2021/22).

Lecturer for the course "How to Reduce the 'Epidemic' of Alzheimer's Disease" (academic years 2021/22 and 2022/23), aimed at students enrolled in degree programs at the University of Verona, as part of the training programs promoted by TaLC (Teaching and Learning Center) for the acquisition of transferable skills.

▪ **Advisor, Co-Advisor, or Tutor for Bachelor's and Doctoral Theses**

- 2026: Master's Degree Program in Dentistry and Dental Prosthetics, University of Verona.

Thesis: "Development of a composite biomaterial based on platelet-rich plasma and cross-linked hyaluronic acid for soft tissue management in periodontal and peri-implant surgery: an in vitro study on human fibroblasts." (A.S.)

- 2026: Master's Degree Program in Dentistry and Dental Prosthetics, University of Verona.

Thesis: "Effects of platelet-rich plasma (PRP) activated with hyaluronic acid on the modulation of the endothelial angiogenic response: an in vitro study." (T.I.P.)

- 2026: Master's Degree Program in Dentistry and Prosthodontics, University of Verona.

Thesis: "Effect of the combination of activated PRP and cross-linked hyaluronic acid on the proliferation, differentiation, and mineralization of human osteoblasts in culture." (G.G.)

- 2025: Master's Degree Program in Dentistry and Prosthodontics, University of Verona.

Thesis: "The Effect of Cross-Linked Hyaluronic Acid on Clot Stability: An In Vitro Study." (S.B.)

- 2024: Ph.D. in Clinical and Experimental Biomedical Sciences, Doctoral School of Life and Health Sciences, University of Verona.

Thesis: "The Role of the Calcium-Sensing Receptor in Cervical Cancer Cells." (T.Z.)

- 2017: Ph.D. in Clinical and Experimental Biomedical Sciences, Doctoral School of Life and Health Sciences, University of Verona; Ph.D. awarded jointly with the University of the Basque Country, Bilbao, Spain.

Thesis: "Calcium Sensing Receptors, Calcium-Binding Proteins, and Astrocytic Changes in Alzheimer's Disease." (E.G.)

- 2014: Master's Degree Program in Bioinformatics and Medical Biotechnology, University of Verona.

Thesis: "In Situ Proximity Ligation Assay: A Powerful Analytic Tool to Discover and Visualize Amyloid-beta and Calcium Sensing Receptor Interactions" (M.R.)

- 2013: Master's Degree Program in Bioinformatics and Medical Biotechnology, University of Verona.

Thesis: "Quantitative Analysis of the HER2 Gene in Neoplastic Breast Tissue Using Image-Pro Plus Software." (C.C.)

- 2011: Ph.D. in Cardiovascular Sciences, Doctoral School of Life and Health Sciences, University of Verona; International Ph.D. program in joint supervision with the University of Geneva, Switzerland.

Thesis: "A proteomic approach to the study of human thoracic aortic aneurysms." (M.M.)

- 2005: Bachelor's degree in medicine and surgery, Faculty of Medicine and Surgery, University of Verona

Thesis: "Induction of nitric oxide synthase-2 in normal adult human astrocytes by soluble beta-amyloid (peptide 1-40) and basic myelin protein." (C.V.)

Scientific Research Activity

Since 1997, she has been responsible for the Biochemistry and Molecular Biology Laboratory. Since August 2004, she has been co-responsible for the Proteomic Laboratory of the Histology and Embryology Unit (directed by Prof. U. Armato) at the University of Verona.

During her activity, she has successfully developed and/or applied methods for culturing human and mammalian cells in vitro, including astrocytes, neurons, keratinocytes, fibroblasts, and various tumor cells.

Her main basic research topics have been:

- Study on the damage induced by beta-amyloid peptides in human neurons.
- Study on the role of beta-amyloid peptides in human astrocytes and their interactions with the calcium-sensing receptor.
- Biochemical and proteomic analysis of the induction mechanisms of the nitric oxide synthase-2 (NOS-2) by pro-inflammatory cytokines in human adult astrocytes.
- Biochemical study on the mechanisms of the nuclear lamina breakdown during cell apoptosis.
- Biochemical and proteomic study on the roles of the PKC isoenzymes during cell proliferation and apoptosis.
- Biochemical and proteomic study of PKC ζ signaling in human cervical carcinoma C4I cells.

- Proteomic study of Adaptive Remodeling of Pulmonary Autograft Roots at a Late Stage After the Ross Procedure.
- Proteomic study of the human nonsyndromic thoracic aortic aneurysms
- Biochemical study on the role of the ratio Ap3A/Ap4A in the differentiation and apoptosis of human cells.

Her main applied research topics have been:

- Production, banking, and application of homo- and xenotransplants in the therapy of burns.
- Study on new models of artificial derma and skin.
- Investigation on innovative protein scaffolds for tissue engineering.
- Application of matrix-assisted laser desorption ionization-TOF (MALDI-TOF) mass spectrometry in forensic medicine

She has participated as a co-investigator in the following **funded research projects**:

§ *Verona University Consortium - Innovative Health Project, "Use of silk fibroin protein as a scaffold for human tissues regeneration and repair 1999-2001"* (together with Professor U. Armato and Professor Ilaria Dal Pra)

§ *PRIN 1999*, the Italian Ministry for University & Scientific and Technological Research (about the validation of simple or composite silk fibroin scaffolds for human tissue engineering)

§ *PRIN 2005*, the Italian Ministry for University & Scientific and Technological Research (about the proteomics of the human nonsyndromic thoracic aortic aneurysms)

§ *PRIN 2007*, the Italian Ministry for University & Scientific and Technological Research (about the application of matrix-assisted laser desorption ionization-TOF (MALDI-TOF) mass spectrometry in forensic medicine)

§ *Cariverona Foundation 2007-2008 - Cardiovascular Disease Projects* (about the proteomics of the effects of continuous or pulsatile perfusion on human adult skeletal muscle and proteomics of vascular Assist Devices on myocardiocytes)

§ *FSE (Social European Fund 2010)*

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§ *Joint Project 2014: University of Verona-AB Analitica s.r.l. Advances in Biomedicine.*

§ *Silk Biomaterial Milan Fund 2017 for research into a new cardiovascular implant of a silk fibroin-based biomaterial*

§ *Joint project 2018 Università di Verona- C.M.S.R. Veneto Medica S.r.l. (Altavilla -Vicenza)*

§ *Health Innovation Factory 2023: Effects of cross-linked hyaluronic acid on stages of blood clot formation and its properties in combination with platelet-rich plasma as a biomaterial promoting wound healing and tissue regeneration.*

▪ **International cooperations**

§ Along with Professors Ubaldo Armato and Jun Wu, and Dr. Ilaria Dal Prà, Dr. Anna Chiarini has acted as one of the main promoters of the International Scientific Cooperation Agreement between the University of Verona Graduate School of Life and Health Sciences, Ph.D. course in Clinical & Experimental Biomedical Sciences, and the affiliated Hospital of Zunyi Medical University, Zunyi, China. (2017-2023)

§ Along with Professors Pierfrancesco Nocini and Daniele De Santis, and Dr. Ilaria Dal Prà, she has promoted a five-year Memorandum of Understanding for Research Collaboration between the University of Verona and Zunyi Medical University, and Shenzhen Medical University (May 2024)

§ Along with Prof. Ilaria Dal Prà and Prof. Daniele De Santis, she has promoted the "Cooperation Agreement for a Joint Laboratory" (five-year term) between the University of Verona and Shenzhen Medical University (September 2025–2030)

§ Cooperint 2021: Prof. Zhibin Li from Shenzhen Medical University for the project "Exosomes as therapeutic tools for wound healing and burns repair"

§ Cooperint 2024: Prof. Huang Guangtao from Shenzhen Medical University for the project “CRISPR-Cas system and phage therapies are innovative strategies to treat infections and favor wound repair”

▪ **International Awards:**

§ Best poster 1st place at the 7th International Congress on Vascular Dementia, Riga, Latvia, Oct 20-23, 2011.

▪ **National Scientific Excellence Prize**

§ CasRevolution Startup 2018, Milano - Regione Lombardia

§ Entrepreneurship Award “*Bright Future Ideas Award*”, Department for International Trade, and British Consulate General, 2018

Editorial Board Member and Referee:

She is a member of the Editorial Board of the following journals: *BioMed Research International*, *Current Alzheimer Research*, *Frontiers in Neuroscience*, and *Molecular Medicine Reports*.

She has been a Referee for the scientific journals: *Biomaterials*, *Biochemistry and Cell Biology*, *BioTechniques*, *Brain Behaviour and Immunity*, *Brain Research*, *Current Alzheimer Research*, *CNS & Neurological Disorders-Drug Targets*, *Cytotechnology*, *Frontiers in Neuroscience*, *Fundamental & Clinical Pharmacology*, *Gerontology*, *Journal of Neuroinflammation*, *JoVE*, *Heliyon*, *International Journal of Molecular Medicine*, *International Journal of Biological Sciences*, *International Journal of Oncology*, *Molecular Biotechnology*, *Molecular Medicine Reports*, *Neurological Research*, *Neuroscience*, *Neurochemistry International*, *Oncology Letters*, *Proteomics*, *Pharmaceutics*, *Stem Cell International*.

Grant Reviewer:

She has served as a grant reviewer for the following scientific foundations:

§ Swiss National Science Foundation

§ Czech Science Foundation

§ Alzheimer’s Society UK (Great Britain)

§ Marsden Fund Council - Royal Society (New Zealand)

Professional Society Memberships:

Member of the Professional Order of Biologists.

Member of HUPO (Human Protein Organization).

Publications:

72 full papers in International Scientific Journals.

17 articles or chapters in Books and Proceedings of National and International Congress.

100 Communications at National and International Congress

3 Patents