

CURRICULUM VITAE

Degrees: Degree cum Laude in Medicinal Chemistry at the University of Modena and Reggio Emilia. Degree cum Laude in Pharmacy at the same University.

Positions: Technical Assistant in the Section of Biological Chemistry, Department of Biomedical Sciences of the University of Modena and Reggio Emilia
Postdoctoral fellow in the lab directed by Prof. Paul A. Andrews, Cancer Pharmacology Section, Georgetown University, Washington D.C., USA.
Researcher of Biochemistry in the Faculty of Medicine and Surgery of the same University.
Associate Professor in the Faculty of Medicine and Surgery of the same University.
Following the National Scientific Qualification procedures announced with directorial decree no. DD 1796/2023, he obtained the National Scientific Qualification for the functions of full-level university professor in the Competition Sector 05/E1 - GENERAL BIOCHEMISTRY starting from 03/07/2024.
SSD) BIOS-07/A Biochemistry (ex BIO/10 - "BIOCHEMISTRY").

EDUCATIONAL ACTIVITY

Charged of the course of Chemistry and Biochemistry for Nursery students and charged of the course of Biochemistry for Medicine and Surgery students of the University of Modena and Reggio Emilia. Charged of the course of Biochemistry in the Medicine and Surgery Degree for student-officers of the Medical Corps of the Army, Military Academy of Modena.

From the Academic Year 2002-03 to the AY 2015-16 he held the teaching of "Biochemistry" in Integrated Course of Cellular and Molecular Basis of Life (formerly Basic Sciences) of the Degree in Nursing (20 hours) at the headquarters of Modena. From AY 2011-12 is coordinator of CI in "Fundamentals of cellular and molecular life" which includes the course of Biochemistry and Biology and Genetics.

In the Academic Year 2014-15 he held the teaching of Biochemistry for the Integrated Course of Biochemistry, in the first year of the degree course in Dentistry.

From Academic Year 2014-15 to AY 2020-21 he was the holder of the teaching of Biochemistry for the first year of the Postgraduate School of "PSYCHIATRY".

Since the Academic Year 2010-11 he has been teaching "Biochemistry" in the Integrated Course of Molecular Basis of Life (formerly Propaedeutical Sciences) of the Degree in Nursing (24 hours) at the headquarters of Reggio Emilia.

Since the Academic Year 2009-10 he has been teaching Biochemistry for the Integrated Course of Biological Chemistry, for Official Students of the Military Academy, 1st year of the Degree Course in Medicine and Surgery (75 hours).

Since the Academic Year 2010-11 he has been teaching Biochemistry for the Integrated Course of Biological Chemistry, first year of the Degree Course in Medicine and Surgery (112.5 hours).

Assistance and guidance to students and doctoral students.

Thesis supervisor of undergraduate program for students of Biotechnology and master thesis for students of Pharmaceutical Biotechnology and Pharmacy.

He was a member of the Teaching Committee in the DOCTORATE Schools:

1. QUALITY AND SAFETY OF FOOD, - Cycle: XXII.
2. PHYSIO-PHARMACOLOGICAL, - Cycles: XXIII AND XXIV
3. SCIENCES AND TECHNOLOGIES OF HEALTH PRODUCTS, - Cycles: XXV-XXVI-XXVII-XXVIII

He is a member of the Teaching College in the DOCTORATE School:

4. CLINICAL AND EXPERIMENTAL MEDICINE (CEM) - CLINICAL MEDICINE E EXPERIMENTAL, - CYCLE: XXIX (2013-14) - XXX (2014-15) - XXXI (2015-16) - XXXII (2016-17) - XXXIII (2017-18) - XXXIV (2018-19) - XXXV (2019-20) - XXXVI (2020-21) - XXXVII (2021-22) – XXXVIII (2022-23) - XXXIX (2023-24) - XXXX (2024-25) - XLI (2025-26) - XLII (2026-27).

SCIENTIFIC ACTIVITY:

The scientific activity can be summarized in the following topics:

1. Studies on the effect of polyamines on the regulation of protein kinase C.
2. Studies on the involvement of polyamines in cell death processes.
3. Studies on the pharmacology of the anticancer drug cisplatin and related mechanisms of resistance in human carcinoma cell lines.
4. Studies on the effects of polyamines on the cytotoxicity of cisplatin in human cancer cells.
5. Studies on the biological effects of Amadori's Pt(II)-compounds, of Fe³⁺-glycosil complexes of curcumin and of non-complexing curcuminoids.
6. Studies on the biological effects of bipyridyl-Pt (II) or bipyridyl-Pd (II) and phenanthrolyl-Pt (II) or phenanthrolyl-Pd (II) complexes with thiourea as DNA intercalating agents in human cancer cells.
7. Studies on the effects of novel N, N'-disubstituted thiocarbamide derivatives as anticancer drugs against human tumour cell lines.
8. Studies on the effects of novel inhibitors of folate cycle enzymes, thymidylate synthase and dihydrofolate reductase, as anticancer drugs in cisplatin-resistant and 5-fluorouracil-resistant human carcinoma cell lines.

69 articles in international journals, 2 articles in national journals, 5 patents, 12 book chapters and over 81 communications at national and international conferences.

Gaetano Marverti