Curriculum Vitae Prof. Gabriele Caviglioli

EDUCATION AND TRAINING

degree in Pharmaceutical Chemistry and Technology

degree in Pharmacy

WORK EXPERIENCE

from 2001 to present	Professor of Pharmaceutical Technology and Law at the Department of Pharmacy of the University of Genoa.
from 1995 to 2001	Professor for the course of Pharmaceutical Technology, Socioeconomy and Law II for the degree in Pharmacy at the University of Genoa.
from 1991 to 2001	Researcher at the Department of Pharmaceutical and Food Chemistry and Technologies of the University of Genoa.
from 1988 to 1991	Researcher at the Research Department of *Menarini Industrie Farmaceutiche Riunite* in Florence (I)
from 1987 to 1988	Researcher at the Laboratory of Toxicological Pharmacology of Genoa Cancer Institute

ORGANISATIONAL / MANAGERIAL SKILLS

1. Since 2021 member of the technology transfer committee of University of Genoa

2. Since 2018 coordinator of the Specialization School in Hospital Pharmacy of University of Genoa

3. Since 2018 deputy director of the Department of Pharmacy of University of Genoa

4. From 2014 to 2017 coordinator of the Ph.D. course in Pharmaceutical, Food and Cosmetic Sciences

5. Since 2012 member of the board of the Pharmacy Department of University of Genoa

6. Since 2012 member of the Council of the School of Medical and Pharmaceutical Sciences of University of Genoa

7. From 2009 to 2017, member of the Board of the Ph.D. School of Science and Technology of Chemistry and Materials

8. From 2004 to 2012 member of the board of the Continuing Education Centre (PerForm) of University of Genoa

Job-related skills

Graduate Teaching courses:

- Pharmaceutical Technology and Law II for the degree in Pharmaceutical Chemistry and Technology

Post-graduate Teaching courses:

- Pharmacoeconomics (Specialization School in Hospital Pharmacy)
- Pharmaeconomic Analysis (Specialization School in Hospital Pharmacy)
- Medical device and In vitro Diagnostic Medical Device (Specialization School in Hospital Pharmacy)
- Innovative pharmaceutical dosage forms: preparation and control methods (Ph.D. course in Pharmaceutical, Food and Cosmetic Sciences)

Professional skills

- In possession of the legal requirements, according to UE, for the Qualified Person of industry authorized to pharmaceutical production.

Research interest:

planning and development of new dosage forms, with special attention to the field of preformulation studies and stabilization of biologically active molecules, development and characterization of nano and micro dispersed systems, development of matrix dosage forms for localization and drug release control, and radiopharmaceutics.

Publications

Last relevant publications:

1. Boron Vehiculating Nanosystems for Neutron Capture Therapy in Cancer Treatment. Cells Dec 2022; 11 (24)
2. D-alpha-Tocopherol-Based Micelles for Successful Encapsulation of Retinoic Acid. Pharmaceuticals. Mar 2021;14(3).
3. Increased Water-Solubility and Maintained Antioxidant Power of Resveratrol by Its Encapsulation in Vitamin E TPGS Micelles: A Potential Nutritional Supplement for Chronic Liver Disease. Pharmaceutics. Aug 2021;13(8).
4. Two Novel PET Radiopharmaceuticals for Endothelial Vascular Cell Adhesion Molecule-1 (VCAM-1) Targeting. Pharmaceutics. Jul 2021;13(7).
5. Towards a better understanding of thermally treated polycarbophil matrix tablets for controlled release. International Journal of Pharmaceutics-X. Dec 2021;3.
6. The Pharmaceutical Technology Approach on Imaging Innovations from Italian Research. Pharmaceutics. Aug 2021;13(8).
7. Formulation Strategies to Improve Oral Bioavailability of Ellagic Acid. Applied Sciences-Basel. May 2020;10(10).
8. A new microdispersed albumin derivative potentially useful for radio-guided surgery of occult breast cancer lesions (vol 9, 5623, 2019). Scientific Reports. Mar 2020;10(1).
9. Neuroinflammation in Aged Brain: Impact of the Oral Administration of Ellagic Acid Microdispersion. International Journal of Molecular Sciences. May 2020;21(10).
10. Peptide-based nanosystems for vascular cell adhesion molecule-1 targeting: a real opportunity for therapeutic and diagnostic agents in inflammation associated disorders. Journal of Drug Delivery Science and Technology. Feb 2020;55.
11. Exosomes and Extracellular Vesicles as Emerging Theranostic Platforms in Cancer Research. Cells. Dec 2020;9(12).

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Patents

1. Caviglioli G., Baldassari S., Zuccari G., Ailuno G. A method for the production of gastroretentive compact matrices for the controlled release of active substances and compact matrices thus obtained PCT/IB2022/052522.
2. Compounds and methods for detecting early atherosclerotic lesions in blood vessels PCT EP2019/055726
3. A three-dimensional hydrogel scaffold for cell culturing and a method for the production thereof PCT/EP2018/066096
4. A conjugate of human albumin and 2-(4-isothiocyanatobenzyl)-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetracetic acid useful for the localization of radionuclides for diagnostic and therapeutic purpose EP 2658581
5. Method for the production of bioadhesive compact matrices granted: EU,US,J,RC,CA,K,Rus. Licensed

Technology Transfer

Patents licensed to: Cosmo Tech. Ltd. (since 2021); Adare Pharmaceuticals Srl (2011-2020)

Memberships

ADRITELF, Association of Professors and Researchers of Pharmaceutical Technology and Law
AFI Association of Industrial Pharmacists
CRS Control Release Society
SCI Chemical Italian Society