

PERSONAL INFORMATION

Ida Genta



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Sex F | Date of birth 28/01/1961 | Nationality Italian

Associate professor

WORK EXPERIENCE

- 2001 – current **Associate professor** (GSD 03/CHEM-08 – SSD CHEM-08/A) at the Department of Drug Sciences, University of Pavia, Pavia (Italy)
- 2020 – current **National Scientific Qualification as Full Professor** (SSD CHIM09)
- 2022 – current **Pharmacy degree course Coordinator**, University of Pavia (Pavia, Italy)
- 2021 – current **Coordinator responsible for FarmaciaPLUS project**, University of Pavia (Pavia, Italy)
- 2001 – current **Teaching** to Pharmacy and Medicinal Chemistry and Pharmaceutical Technology Master degree courses at the University of Pavia (Pavia, Italy)
- 2018 - 2022 **Coordinator II level Master Course in “Service Pharmacy”**, University of Pavia (Pavia, Italy)
- 2018 - 2019 **Teaching** to International Erasmus Mundus Joint Master in “Nanomedicine for Drug Delivery (NANOMED), “Drug Targeting and vaccination”, University of Pavia, Pavia (Italy)
- 2017 – current **Member of the Board of the PhD school in “Bioengineering, bioinformatics and health technologies”**, University of Pavia (Pavia, Italy)
- 2013 – 2017 **Member of the Board of the PhD school in “Chemical and Pharmaceutical Sciences”** at the University of Pavia (Pavia, Italy)
- 2007 – 2013 **Member of the Board of the PhD school in “Pharmaceutical Chemistry and Technology”** at the University of Pavia (Pavia, Italy)
- 2007-current **Member of the Board of the II level Master Course in “Pharmaceutical technology and Regulatory Activities”**, University of Pavia (Pavia, Italy)
- 2006 – 2011 **Member of the Board of the PhD school in “Biomolecular Sciences and Biotechnology”** at IUSS, Scuola Universitaria Superiore, Pavia (Italy)
- 2001 – 2017 **Teaching** to Biotechnology Master degree courses at the University of Pavia (Pavia, Italy)
- 1999 – 2000 **Teaching** to Medicinal Chemistry and Pharmaceutical Technology and Pharmacy master degree course at the University of Pavia (Pavia, Italy)
- 1995 – 2000 **Integrative teaching activities** and laboratories to Medicinal Chemistry and Pharmaceutical Technology and Pharmacy Master degree courses at the University of Pavia (Pavia, Italy)
- 1995 – 2001 Assistant Professor at the Dept. Pharmaceutical Chemistry, University of Pavia, Pavia (Italy)
- 1993 – 1995 Post-doctoral Research Fellowship, Dept. Pharmaceutical Chemistry, University of Pavia

EDUCATION AND TRAINING

- 1988 – 1991 PhD degree in Medicinal Chemistry and Pharmaceutical Technology, University of Pavia (Pavia, Italy)
- 1985 – 1988 Post-graduate Master Degree in “Industrial Pharmacy”, University of Pavia (Pavia, Italy)
- 1986 Qualified pharmacist
- 1980 – 1985 Master Degree in Medicinal Chemistry and Pharmaceutical Technology, University of Pavia (Pavia, Italy).

WORK ACTIVITIES**Organizational and management activities**

- 2024 **Member of Organizing and Scientific committee** of 1st SITELF/SCI Summer School for PhD students “New delivery strategies for therapeutics and vaccines to fight emerging infectious diseases” – 2-4 settembre 2024, Università di Pavia, Pavia
- 2024 **Member of Organizing and Scientific committee** of Summer School “Nanomaterials and Nanotechnologies for Pharmaceutical Applications: regulatory, intellectual property and formulation aspects” nell’ambito del Progetto “NANOREMEDI, Functional Nano-Scaffolds for Regenerative Medicine” - HORIZON-MSCA-2021-DN-01 (MSCA Doctoral Networks 2021) - Proposal number: 101072645 – 4-6 settembre 2024, Università di Pavia, Pavia
- 2022 **Member of Organizing and Scientific committee** of NANOMED Workshop” FROM BIOTECHNOLOGY TO NANOBIOLOGY AND VACCINES”, Pavia, 11- 13 July 2022. <https://www.nanomed2022.it/> The workshop is connected to EMJMD NANOMED
- 2020 **Member of organizing committee** of webinar AFI/CRS/ADRITELF “RICERCA, SVILUPPO DI NUOVI FARMACI E NUOVE TECNOLOGIE: IL DRUG DELIVERY NELLA SFIDA DELL’ANTIBIOTICO RESISTENZA”, Simposio AFI
- 2020 **Member of organizing committee** of 3rd Nanomed Workshop “Nanotechnology-based research products: how to translate them into Nanomedicines”, Erasmus Mundus Joint Master Degree [EMJMD], Pavia, July 2020 [it became a webinar due to Covid-19 pandemic]
- 2019 - 2022 **Member of Scientific committee** of Controlled Release Society (Italy chapter) Workshop “MITO - Un viaggio tra nanomedicina e direccionamento di farmaci” (Università di Milano - Università di Torino)
- 2018 - 2019 **Member of the academic spin-off** Polymerix s.r.l. at Science Park (PTS), University of Pavia
- 2018 **Member of organizing committee** of CRS sections and “Piazza per il futuro e l’impiego dei giovani” in the Annual Symposium AFI, Rimini (Italy)
- 2018 **Member of organizing committee** of 18th National School for Doctorate in Pharmaceutical Technology “INNOVATION IN LOCAL DRUG DELIVERY”, Como, 25- 27 September 2018. The doctorate school was sponsored by CARIPOLO (grant Scuole alta formazione)
- 2018 **Member of organizing committee** of I National Congress of Divisione di Tecnologia Farmaceutica, ADRITELF e Divisione di Tecnologia – Società Chimica Italiana, “The future of drug delivery: where are we going?” (Como)
- 2018 **Member of organizing committee** of 2° congress IDBN - 3D Printing and Biomechanics – Italian Digital Biomanufacturing Network (III Thematic Conference European Society of Biomechanics-ITA) (Università di Pavia, Pavia, Italy)
- 2018 **Member of organizing committee** of Workshop “NOI (Nano Innovation in drug delivery) – Università degli Studi del Piemonte Orientale “Amedeo Avogadro” (Novara, Italy)
- 2016 **Member of scientific committee** of the seminar “Combinatorial nanoconstructs for imaging and treating cancer and inflammatory diseases”, Science Park of the University of Pavia (Pavia, Italy)

- 2016 **Member of scientific committee** of Workshop “Tissue repair: from biochemical mechanisms to formulation approaches” (Università di Pavia, Pavia, Italy)
- 2017 - 2022 **Treasurer of Controlled Release Society (CRS) - Italian Chapter**
- 2015 – current **Board of Directors of the “Science Park (PTS)”** of the University of Pavia (Pavia, Italy)
- 2015 - current **Member and from 2023 Vice-president of MADE** (Interdepartmental Research center in Advanced materials and Devices), University of Pavia (Pavia, Italy)
- 2008 - current **Member of the Scientific Committee of Center of Health Technology** (CHT, ex-Centro di Ingegneria Tissutale), interdepartmental institution of the University of Pavia (Pavia, Italy)

Editorial activity

- 2017 – current **Member of Editorial board** (and from 2019 **Associate Editor**) of “Pharmaceutical Drug Regulatory Affairs Journal” (ISSN: 2642-6315) and “Journal of Applied Pharmaceutics” (ISSN:0975-7058); **from 2018 Editorial Board member** (and from January 2020 **Topic Editor**) of “International Journal of Molecular Sciences (Materials Science section)” (ISSN: 1422-0067)
- 2022 – current **Guest-Editor** of the Special Issue “*Biodegradable Natural and Synthetic Polymers for Biomedical Applications*” on the open-access journal „Molecules“
- 2021 – 2023 **Guest-Editor** of the Special Issue “Challenges, Opportunities, and Innovation in Local Drug Delivery 2.0” on the open-access Journal of Molecular Sciences
- 2019-2021 **Guest-Editor** of the Special Issue “*Drug Delivery and Scaffolding in the Era of 3D-Printing and Microfluidic Techniques: Challenges and Opportunities*” on the open-access International Journal of Molecular Sciences.
- 2018-2019 **Guest-Editor** of the Special Issue “*Micro and Nano encapsulation techniques*” on the open-access journal “Pharmaceutics”
- 2009 - current **Reviewer for:** Journal of Controlled Release, AAPS Pharmaceutical Science and Technology, International Journal of Pharmaceutics, Pharmaceutics, Material Sciences and Engineering C, Reactive and Functional Polymers, International Journal of Molecular Sciences (IJMS), Journal of Drug Delivery Science and Technology (JDDST)
Abstract reviewer for CRS Annual International meetings

Member of **ADRITELF** (Italian association of pharmaceutical technology), **SCI** (Italian Chemical Society), **CRS** (Controlled Release Society), **AFI** (Association of Industrial Pharmacists), **PDA** (Parenteral Drug Association)

Grants (last five years)

- 2022-2026 **H2020 HORIZON-MSCA-2021-DN-01**, Proposal #101072645 – “**NANOREMEDI: Functional Nanoscaffolds for Regenerative Medicine**”, P.I. of UniPV Research Unit: prof. I. Genta. Amount granted to the research unit 518 k€
- 2022-2026 “**PRotesi innOvaTivE per applicazioni vaScolari ed ortopediChe e mediante Additive Manufacturing**”, CUP B19J22002460005, on the finance Asse I, Azione 1.1.3 PON Imprese e competitività 2014 – 2020 (9-12-2022-21-12-2026, UNIPV grant 2575 k€)

- 2023-2025** “Nano-Electro-Chemo-Immuno Therapy (**NECIT**) to enhance head and neck cancer treatment”, Ricerca Corrente 2022, IRCCS Policlinico S. Matteo Pavia, grant # 08053922, PI: prof. M. Benazzo (Fondazione IRCCS San Matteo) - UNIPV unit (grant 100 k€)
- 2023- on going** “**Immuno-HUB - Immunoterapia: cura e prevenzione di malattie infettive e tumorali**” - Piano Operativo Salute, F13C22001110001 Traietoria 4 (T4-CN-02) - Interventi per la creazione di Hub delle Scienze della Vita nei settori della Farmaceutica, del Biomedicale e delle Biotecnologie. In collaboration with “Tor Vergata” Roma University; Insubria University; Fondazione I.R.C.C.S. Policlinico San Matteo, Pavia; ASST Fatebenefratelli Sacco, Milan; Fondazione I.R.C.C.S. Istituto Nazionale dei Tumori, Milan; Scuola Normale Superiore, Pisa. P.I. UNIPV: prof. M. Terreni ((I. Genta research unit member). Amount granted for UNIPV 4313 k€
- 2021 – on going** **Fondazione Cariplo per Economia Circolare 2021** – “Cutin from tomato-peel waste: green source for plurality of engineered polymer products (**CutToPro**)”, P.I. UNIPV Reserch Unit: prof. R. Dorati (I. Genta research unit member, amount granted 298620 €)
- 2021 – on going** **Project Ricerca Corrente 2021**, IRCCS Policlinico S. Matteo, grant # 08054221 - “Effects of hypothermic oxygenated perfusion with Hepatocyte Growth Factor loaded Extracellular Vesicles on ischemic /reperfusion damage in a pig model of kidney transplantation from donor after circulatory death: a new strategy of drug delivery to condition kidney before transplantation”, P.I.: prof. T. Rampino (I. Genta research unit member, amount granted 150 k€)
- 2021 – on going** **Project Ricerca Corrente 2021**, IRCCS Policlinico S. Matteo Pavia, Italy, grant #08053921 - “3D-Hybrid Engineered Tubular Bioscaffold for Esophageal Tissue Regeneration: from in vitro to in vivo validation ”, P.I.: prof. M. Benazzo (I. Genta research unit member). Amount granted 150 k€
- 2020-ongoing** VV3TT POC Venture Program Edition 2020, BIOFIBER Advanced Textured Fiber Dressing I. Genta research unit member, amount granted 85 k€)
- 2020 - 2022** Project Ricerca Corrente 2017, IRCCS Policlinico S. Matteo (Pavia, Italy), grant #12835 - “An hybrid approach to the repair of esophageal defects: from bio scaffolds engineering to in vivo validation in the porcine model”. P.I.: prof. M. Benazzo (I. Genta research unit member). Amount granted: 158 k€

- Patents**
- “Thermosensitive hydrogel formulation containing polymeric beads as a sustained drug delivery system for the reduction of undesirable damage to human skin resulting from exposure to ionizing radiation” Patent no. 501553879, depositato il 06/03/2011
Inventors: G. A. Digenis, B. Conti, R. Dorati, C. Colonna, I.Genta, A.G. Digenis
Technology transfer to USWorldMed LLC (Louisville, KY, USA).

 - “3D-patterned fiber material for the topical delivery of nucleic acid and the process for its preparation” Patent no. EP19201160 (2019) – PCT/WO2021064673A1 (2021)
Inventors: R.Dorati, B.Conti, I.Genta
Owner: Università degli Studi di Pavia

 - “Metodo per la produzione di un tessuto a memoria di forma e usi relativi” Italian patent No. 102021000019256 submitted 20/07/2021
Inventors: B. Conti, I. Genta, R. Dorati, M. Benazzo, S. Pisani, M. A. Avanzini.
Owners: Università degli Studi di Pavia, Fondazione I.R.C.C.S. Policlinico San Matteo

 - “Method for the production of a shape-memory tissue and relative uses ” European application number EP22754518.3 – PCT/IB2022/056647 - PCT/WO2023002372 (19 luglio 2022)
Priority: IT 102021000019256 del 20/07/2021
Inventors: I. Genta, B. Conti, R. Dorati, M. Benazzo, S. Pisani, M. A. Avanzini
Owners: Università degli Studi di Pavia, Fondazione I.R.C.C.S. Policlinico San Matteo

 - “Processo per la preparazione di un materiale a base di cutina e sue applicazioni biomedicali” Italian patent No. 102023000010413 presentato il 23/05/2023
Inventors: R. Dorati, B. Conti, I. Genta, R. Nasti, G.G. Beretta, S. Trasatti
Owners: Università degli Studi di Pavia, Università degli Studi di Milano

PERSONAL SKILLS

- Mother tongue(s) Italian

- Other language(s) English (B2)

- Job-related skills Team working ability, team coordination ability.

- Digital skills Use digital devices, communication applications, and networks to access and manage information

- Other skills Knowledge and competences on Regulatory framework related to medical devices and drug products marketing authorization (MA) procedures, CTD, drug product quality evaluation (CTD, module 3).
Know how in biopolymer science applied to the pharmaceutical field

ADDITIONAL INFORMATION

Statement of Research Interests

I am deeply involved for several years in drug delivery formulation studies, namely pharmaceutical nanotechnology, also combining drug delivery with tissue regeneration purposes. My scientific research involves design, preparation, characterization, validation of conceptually innovative micro-nano-systems to improve stability and bioavailability of drugs, local and targeted drug delivery.

My scientific research exploits innovative and advantageous opportunities offered by polymers focusing, but not exclusively, on biodegradable biocompatible synthetic polymers, i.e. polyesters and derivatives, and new peptide based nanomaterials (on going project NANOREMEDI H2020 HORIZON-MSCA-2021-DN-01, proposal # 101072645) to optimize and target antibacterial therapy. Particular focus has also been addressed to emerging manufacturing techniques for nanoparticles and scaffolds such as microfluidics and electrospinning. Recent main research line deals with tailored formulations of targeted smart nanocarriers (antibody-conjugated and/or specific biopolymers) for the tunable and selective delivery of synthetic drugs and macromolecules (i.e. proteins, RNAs) as well as diagnostics/contrast agents. Great expertise on developing GMP-oriented microfluidics-based techniques and apparatus for the manufacturing of lipidic and polymeric nanocarriers.

I collaborates with Italian and foreign academics, companies and hospitals.

Publications

total number of publications in peer-review journals: 162

total number of citations: 4,734

H index (Scopus): 38

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<https://www.pharmatechlaw.it/home.php>

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.



Ida Genta
Pavia, 05/23/2024