

# CURRICULUM VITAE prof. Ida Genta

## INFORMAZIONI PERSONALI

Nome	<b>GENTA, Ida</b>
Qualifica	Professore Associato
Amministrazione	Università degli Studi di Pavia
Incarico attuale	Personale docente
Numero telefonico dell'ufficio (se solo privato, omettere)	0382 987371
E-mail istituzionale (se solo privato, omettere)	ida.genta@unipv.it
Indirizzo Pec (se solo privato, omettere)	

## TITOLI DI STUDIO E PROFESSIONALI ED ESPERIENZE LAVORATIVE

Titolo di studio (anno di conseguimento; nome e tipo di istituto di istruzione o formazione )	1985	Master Degree in Medicinal Chemistry and Pharmaceutical Technology, University of Pavia (Pavia, Italy).
Altri titoli di studio e professionali	1991 1988 1986	PhD degree in Medicinal Chemistry and Pharmaceutical Technology, University of Pavia (Pavia, Italy) Post-graduate Master Degree in "Industrial Pharmacy", University of Pavia (Pavia, Italy) Qualified pharmacist
Esperienze professionali (incarichi ricoperti; data; tipo di azienda o settore; principali mansioni o responsabilità)	2022 – current 2021 – current 2019 - 2022 2018– current 2017– current 2013 –2017 2007 – 2013 2006 – 2011 2001 – current	<b>Pharmacy degree course Coordinator</b> , University of Pavia (Pavia, Italy) <b>Coordinator responsible for FarmaciaPLUS project</b> , University of Pavia (Pavia, Italy) <b>Coordinator II level Master Course in "Service Pharmacy"</b> , University of Pavia (Pavia, Italy) <b>Teaching</b> to International Erasmus Mundus Joint Master in "Nanomedicine for Drug Delivery (NANOMED)", "Drug Targeting and vaccination", University of Pavia, Pavia (Italy) <b>Member of the Board of the PhD school in "Bioengineering, bioinformatics and health technologies"</b> , University of Pavia (Pavia, Italy) <b>Member of the Board of the PhD school in "Chemical and Pharmaceutical Sciences"</b> at the University of Pavia (Pavia, Italy) <b>Member of the Board of the PhD school in "Pharmaceutical Chemistry and Technology"</b> at the University of Pavia (Pavia, Italy) <b>Member of the Board of the PhD school in "Biomolecular Sciences and Biotechnology"</b> at <b>IUSS, Scuola Universitaria Superiore, Pavia (Italy)</b> <b>Teaching</b> to Medicinal Chemistry and Pharmaceutical Technology, Pharmacy and Biotechnology Master degree courses at the University of Pavia (Pavia, Italy)

1999 – 2000	<b>Teaching</b> to Medicinal Chemistry and Pharmaceutical Technology and Pharmacy master degree course at the University of Pavia (Pavia, Italy)
1995 – 2000	<b>Integrative teaching activities</b> 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.
	<b><u>Organizational and management activities</u></b>
2022	Member of Organizing and Scientific committee of NANOMED Workshop” FROM BIOTECHNOLOGY TO NANOBIOLOGY AND VACCINES”, Pavia, 11- 13 July 2022. <a href="https://www.nanomed2022.it/">https://www.nanomed2022.it/</a> 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
2020	Master Degree [EMJMD], Pavia, July 2020 [it became a webinar due to Covid-19 pandemic]
	Member of Scientific committee of Controlled Release Society (Italy chapter) Workshop “MITO - Un viaggio tra nanomedicina e direzionamento di farmaci” (Università di Milano - Università di Torino)
2019 -	Member of the academic spin-off Polymerix s.r.l. at Science Park (PTS), University of Pavia (ora in liquidazione)
2018 - 2019	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 CARIPLO (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)
2018	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 –	Treasurer of Controlled Release Society (CRS) - Italian Chapter

	2015 – current 2015 - current 2008 - current	Board of Directors of the “Science Park (PTS)” of the University of Pavia (Pavia, Italy) Member and <b>from 2023</b> Vice-president of MADE (Interdepartmental Research center in Advanced materials and Devices), University of Pavia (Pavia, Italy) 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).						
Capacità linguistiche		<table> <tr> <td>Mother tongue(s)</td> <td>Italian</td> </tr> <tr> <td>Other language</td> <td>English (B2)</td> </tr> <tr> <td>Job-related skills</td> <td>Team working ability, team coordination ability.</td> </tr> </table>	Mother tongue(s)	Italian	Other language	English (B2)	Job-related skills	Team working ability, team coordination ability.
Mother tongue(s)	Italian							
Other language	English (B2)							
Job-related skills	Team working ability, team coordination ability.							
Capacità nell’uso delle tecnologie		Use digital devices, communication applications, and networks to access and manage information						
Altro (partecipazione a convegni e seminari, pubblicazioni, collaborazione a riviste, ecc., ed ogni altra informazione che il compilante ritiene di dover pubblicare)		<p><b>Selected recent paper (last three years):</b></p> <ol style="list-style-type: none"> <li>1. E. Chiesa, A. Caimi, M. Bellotti, A. Giglio, B. Conti, R. Dorati, F. Auricchio, I. Genta*, Effect of micromixer design on lipid nanocarriers manufacturing for the delivery of proteins and nucleic acids. <i>Pharmaceutics</i>, 16, 507 (1-22), 2024</li> <li>2. E. Chiesa, F. Anastasi, F. Clerici, E.M. Lumina, I. Genta, S. Pellegrino, M.L. Gelmi, Stereochemical Behavior of Pyrrolo-Pyrazole Peptidomimetics Promoting Phase-Selective Supramolecular Organogels. <i>Gels</i>, 10, 263, 2024]</li> <li>3. E. Chiesa, F. Clerici, R. Bucci, F. Anastasi, M. Bottiglieri, M. Patrini, I. Genta, A.M. Bittner, M.L. Gelmi, Smart Electrospun Nanofibers from Short Peptidomimetics Based on Pyrrolo-pyrazole Scaffold. <i>Biomacromolecules</i>, 25, 2378-2389, 2024</li> <li>4. M. Rosalia, M. Giacomini, E.M. Tottoli, R. Dorati, G. Bruni, I. Genta, E. Chiesa, S. Pisani, M. Sampaolesi, B. Conti, Investigation on Electrospun and Solvent-Casted PCL-PLGA Blends Scaffolds Embedded with Induced Pluripotent Stem Cells for Tissue Engineering. <i>Pharmaceutics</i>, 15(12), 2736 (1-22), 2023</li> <li>5. E.M. Tottoli, L. Benedetti, F. Riva, E. Chiesa, S. Pisani, G. Bruni, I. Genta, B. Conti, G. Ceccarelli, R. Dorati, Electrospun Fibers Loaded with Pirfenidone: An Innovative Approach for Scar Modulation in Complex Wounds. <i>Polymers</i>, 15(20), 4045, 2023</li> <li>6. S. Pisani, V. Mauri, E. Negrello, V. Friuli, I. Genta, R. Dorati, G. Bruni, S. Marconi, F. Auricchio, A. Pietrabissa, M. Benazzo, B. Conti, Hybrid 3D-Printed and Electrospun Scaffolds Loaded with Dexamethasone for Soft Tissue Applications. <i>Pharmaceutics</i>, 15(10), 2478, 2023</li> <li>7. S. Pisani, D. Di Martino, S. Cerri, I. Genta, R. Dorati, G. Bertino, M. Benazzo, B. Conti, Investigation and Comparison of Active and Passive Encapsulation Methods for Loading Proteins into Liposomes. <i>Int. J. Mol. Sci.</i>, 24(17), art. no. 13542, 2023</li> <li>8. M. Rosalia, P. Grisoli, R. Dorati, E. Chiesa, S. Pisani, G. Bruni, I. Genta, B. Conti, Influence of Electrospun Fibre Secondary Morphology on Antibiotic Release Kinetic and Its Impact on Antimicrobial Efficacy. <i>Int. J. Mol. Sci.</i>, 24(15), 12108, 2023</li> <li>9. A. Greco, B. Gabold, S. Chen, X. Wang, Z. Xu, A. Hartschuh, E. Chiesa, I. Genta, C.L. Ried, T. Merdan, O.M. Merkel, Microfluidic mixing as platform technology for production of chitosan nanoparticles loaded with different macromolecules. <i>Eur. J. Pharm. Biopharm.</i>, 188, 170-181 (2023)</li> <li>10. E.M. Tottoli, L. Benedetti, E. Chiesa, S. Pisani, G. Bruni, I. Genta, B. Conti, G. Ceccarelli, R. Dorati, Electrospun Naringin-Loaded Fibers for Preventing Scar Formation during Wound Healing. <i>Pharmaceutics</i>, 15(3), 747, 2023</li> <li>11. S. Pisani, I. Genta, T. Modena, R. Dorati, G. Bruni, M. Benazzo, B. Conti, A proof of concept to define the parameters affecting poly-l-lactide-co-poly-ε-caprolactone shape memory electrospun nanofibers for biomedical applications. <i>Drug Del. Transl. Res.</i>, 13(2), 593-607, 2023</li> </ol> <p>S. Pisani, V. Mauri, E. Negrello, S. Mauramati, G. Alaimo, F. Auricchio, M. Benazzo, R. Dorati, I. Genta, B. Conti, V.V. Ferretti, A. De Silvestri, A. Pietrabissa, S. Marconi, Assessment of different manufacturing techniques for the</p>						

		<p>production of bioartificial scaffolds as soft organ transplant substitutes. <i>Front. Bioeng. Biotechnol.</i>, 11, 1186351, 2023</p> <p>13. E. Chiesa, M. Bellotti, A. Caimi, B. Conti, R. Dorati, M. Conti, I. Genta*, F. Auricchio, Development and optimization of microfluidic assisted manufacturing process to produce PLGA nanoparticles. <i>Int. J. Pharm.</i>, 629, 122368, 2022</p> <p>14. E. Chiesa, E.M. Tottoli, A. Giglio, B. Conti, M. Rosalia, L.G. Rizzi, R. Dorati, I. Genta, Graphene Nanoplatelets-Based Textured Polymeric Fibrous Fabrics for the Next-Generation Devices. <i>Polymers</i>, 14 (24), 5415, 2022</p> <p>15. E.M. Tottoli, E. Chiesa, G. Ceccarelli, S. Pisani, G. Bruni, I. Genta, B. Conti, R. Dorati, Biofiber: An advanced fibrous textured dressing to manage exudate in severe wounds. <i>Int. J. Pharm.</i> X, 625, 122073, 2022</p> <p>16. S. Pisani, E. Chiesa, I. Genta, R. Dorati, M. Gregorini, M.A. Grignano, M. Ramus, G. Ceccarelli, S. Croce, C. Valsecchi, M. Monti, T. Rampino, B. Conti, Liposome Formulation and In Vitro Testing in Non-Physiological Conditions Addressed to Ex Vivo Kidney Perfusion. <i>Int. J. Mol. Sci.</i>, 23 (14), 7999, 2022</p> <p>17. S. Pisani, V. Calcaterra, S. Croce, R. Dorati, G. Bruni, I. Genta, A. Avanzini, M. Benazzo, G. Pelizzo, B. Conti, Shape memory engineered scaffold (SMES) for potential repair of neural tube defects. <i>React. Funct. Pol.</i>, 173, 105223, 2022</p> <p>S. Pisani, S. Croce, S. Mauramati, M. Marmonti, L. Cobianchi, I. Herman, R. Dorati, M.A. Avanzini, I. Genta, M. Benazzo, B. Conti, Engineered Full Thickness Electrospun Scaffold for Esophageal Tissue Regeneration: From In Vitro to In Vivo Approach. <i>Pharmaceutics</i>, 14(2), 252, 2022</p> <p>19. S. Pisani, I. Genta, R. Dorati, T. Modena, E. Chiesa, G. Bruni, M. Benazzo, B. Conti, A Design of Experiment (DOE) approach to correlate PLA-PCL electrospun fibers diameter and mechanical properties for soft tissue regeneration purposes. <i>J. Drug Del. Sci. Technol.</i>, 68, 103060, 2022</p> <p>20. E. Chiesa, A. Greco, F. Riva, R. Dorati, B. Conti, T. Modena, I. Genta*, CD44-Targeted Carriers: The Role of Molecular Weight of Hyaluronic Acid in the Uptake of Hyaluronic Acid- Based Nanoparticles. <i>Pharmaceutics</i>, 15 (1), 103, 2022</p> <p>21. R. Dorati, E. Chiesa, F. Riva, T. Modena, S. Marconi, F. Auricchio, I. Genta, B. Conti, Design and optimization of 3D-bioprinted scaffold framework based on a new natural polymeric bioink. <i>J. Pharm. Pharmacol.</i>, 74(1), 57-66, 2022</p>
	2017 – current	<p><b>Editorial activity:</b> 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);</p>
	2018 – current	<p>Editorial Board member (and from January 2020 Topic Editor) of "International Journal of Molecular Sciences (Materials Science section)" (ISSN: 1422-0067)</p>
	2018-201	<p>Guest-Editor of the Special Issue "Micro and Nano encapsulation techniques" on the open-access journal "Pharmaceutics"</p>
	2019-2021	<p>Guest-Editor of the Special Issue "Drug Delivery and Scaffolding in the Era of 3D-Printing and Microfluidic Techniques: Challenges and Opportunities 2.0" on the open-access International Journal of Molecular Sciences</p>
	2022	<p>Guest-Editor of the Special Issue "Biodegradable Natural and Synthetic Polymers for Biomedical Applications" on the open-access journal "Molecules"</p>
	2021-2023	<p>Guest-Editor of the Special Issue "Challenges, Opportunities and Innovation in Local Drug Delivery" on the open-access International Journal of Molecular Sciences.</p> <p>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)</p> <p>Member of ADRITELF/SITELF (Italian association of pharmaceutical</p>

technology), SCI (Italian Chemical Society), CRS (Controlled Release Society), AFI (Association of Industrial Pharmacists), PDA (Parenteral Drug Association)

#### **Grants (on going)**

1. HORIZON-MSCA-2021-DN-01 (MSCA Doctoral Networks 2021) - Topic: HORIZON- MSCA-2021-DN-01-01. Type of Action: HORIZON-TMA-MSCA-DN-JDHORIZON-MSCA-2021- DN-01 (MSCA Doctoral Networks 2021), - "NANOREMEDI, Functional Nano-Scaffolds for Regenerative Medicine" Proposal number: 101072645 - I. Genta UNIPV Principal Investigator (UNIPV grant: 518 k€) (2022 - 2026)

"Immuno-HUB - Immunoterapia: cura e prevenzione di malattie infettive e tumorali" - Piano Operativo Salute, F13C22001110001 Traiettorie 4 (T4-CN-02) - Interventi per la creazione di Hub delle Scienze della Vita nei settori della Farmaceutica, del Biomedicale e delle Biotecnologie. In collaborazione con "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. I. Genta componente unità UNIPV - Obiettivi n. 5-6 (UNIPV grant 4.313 k€; dal 2023 – in corso).

3. "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) - I. Genta co-responsabilità unità UNIPV (grant 100 k€, durata 24 mesi, 1/1/23 – 1/1/25).

4. "Cutin from tomato-peel waste: green source for plurality of engineered polymer products (CutToPro)", Fondazione Cariplo per Economia Circolare 2021 in collaborazione con Università di Milano - I. Genta componente unità locale (grant 298.620 €; 2021 - in corso).

5. "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", Ricerca Corrente 2021, IRCCS Policlinico S. Matteo Pavia, grant # 08054221, PI: prof. T. Rampino (Fondazione IRCCS San Matteo) - I. Genta co-responsabilità unità UNIPV (grant 150 k€, durata 36 mesi, in corso).

6. "3D-Hybrid Engineered Tubular Bioscaffold for Esophageal Tissue Regeneration: from in vitro to in vivo validation ", Ricerca Corrente 2021, IRCCS Policlinico S. Matteo Pavia, grant #08053921, in collaborazione con il gruppo di ricerca del prof. M. Benazzo (Fondazione IRCCS San Matteo e Università di Pavia) - I. Genta co-responsabilità unità UNIPV (grant 15k€) (2021, durata 36 mesi, in corso).

7. "Protesi innOvaTivE per applicazioni vaScolari ed ortopediCHe e mediante Additive Manufacturing" (ProtesiCAM) - CUP: B19J22002460005, on the finance Asse I, Azione 1.1.3 PON Imprese e competitività 2014 – 2020, responsabile unità dell'Università di Pavia Prof. F. Auricchio (DICAr) - I. Genta componente unità locale (grant totale 6.029.748,23 €, UNIPV grant 2.575 k€, 9/12/2022 - 31/12/26).

8. VV3TT POC Venture Program Edition 2020: BIOFIBER Advanced Textured Fiber Dressing - I. Genta co-responsabilità team (grant 85 k€, 2020 – in corso).

9. Bio/nanotech @UniPV per Energia Sostenibile e Salute, Grant Regione Lombardia, CE4WE - I. Genta co-responsabilità team (budget 180.719,00 €; 2020- in corso)

#### **Patents:**

1. "Medicazioni interattive per la cura di patologie dermatologiche" Brevetto no. MI2006A000556, depositato il 24/03/2006  
Inventors: C. Colonna, B. Conti. I. Genta, K. Hassan, P. Iadarola, T. Modena, F. Pavanetto, P. Perugini,  
On 03/22/07 extension to PCT/WO2007110767A2 – PCT/WO2007110767A3 "Interactive dressings for treatment of dermatological diseases" -  
2. "Thermosensitive hydrogel formulation containing polymeric beads as a sustained drug delivery system for the reduction of undesirable

		<p>damage to human skin resulting from exposure to ionizing radiation” Patent no. 501553879, on 06/03/2011 Inventors: G. A. Digenis, B. Conti, R. Dorati, C. Colonna, I.Genta, A.G. Digenis. Technology transfer to the company USWorldMed LLC (Louisville, KY, USA).</p> <p>3. “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</p> <p>5. "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</p> <p>7. “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</p>
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Il sottoscritto è consapevole che il presente documento potrebbe essere oggetto di pubblicazione per finalità di trasparenza sul sito web dell’Università degli Studi di Pavia.

Pavia, 22 aprile 2024

Firmato da Ida Genta

*Copia originale firmata conservata agli atti*