



XLIII Convegno Nazionale della
Divisione di Chimica Organica,
CDCO2026, 13-17 settembre 2026



Programma della sessione dedicata ai rapporti Università-Industria

Giovedì 17 settembre 2026

Auditorium Royal Continental Napoli, Via Partenope 38-Napoli

- 9:00-9:30 Medaglia Pino: Prof.ssa Giulia Licini, Università di Padova
Dalla simmetria alla sostenibilità: catalisi, chiralità e ossidazioni "verdi"
- 9:30-10:00 Premio Junior alla Ricerca Industriale Junior: Dr Luca Senaldi Indena s.p.a
Le sfide della semisintesi: i casi studio di ODDA-Paclitaxel e Voclosporin
- 10:00-10:30 Key Note: Dr. Ernesto Santandrea Hoffmann-La Roche AG, Basilea
titolo da comunicare
- 10:30-11:00 Coffee Break
- 11:00-11:30 Premio Junior alla Ricerca Industriale: Dr. Massimo Verzini Flamma Group
La chimica in flusso oltre l'automazione: verso una manifattura intelligente e riconfigurabile
- 11:30-12:15 Tavola rotonda:
Ricerca di base e applicata per il futuro della chimica: processi sostenibili, digitalizzazione e didattica
- 12:15-12:45 Medaglia Modena: Prof. Daniele Lenori RWTH Aachen University, Aachen
Permutazioni fotochimiche per il riarrangiamento di composti aromatici

Relatore: Ernesto Santandrea

CV:

Ernesto Santandrea ha frequentato l'Università degli Studi di Bari "Aldo Moro", presso la quale ha conseguito prima la laurea in chimica e tecnologia farmaceutiche nel 2002 e successivamente, nel 2006, il dottorato di ricerca in Scienze del farmaco. A un breve periodo presso la facoltà di chimica industriale dell'Università degli Studi di Bologna, segue il trasferimento in Svizzera prima e poi in Germania per un post-doc presso il dipartimento di chimica farmaceutica di Abbott, dove si occupa della sintesi di agenti anti-schizofrenici.

Successivamente, ritorna in Svizzera, dove occuperà per oltre sei anni il ruolo di chimico in sviluppo processi presso l'azienda Siegfried. In seguito ricoprirà vari ruoli in sviluppo processi per l'azienda Svizzera Novartis per oltre quattro anni e infine, dal 2021, per F. Hoffmann-La Roche, anch'essa in Svizzera.

Nel corso degli ultimi 15 anni, il dottor Santandrea ha contribuito allo sviluppo di numerosi processi industriali per la produzione di sostanze attive sia per uso clinico, sia commerciale.

LUCA SENALDI

PERSONAL INFORMATION

Address: Via Manzoni 44, Magenta (MI), Italy
Phone Number: +39 347 88 66 929
e-mail: luca.senaldi@outlook.it
Date of Birth: 08/07/1992
Nationality: Italian
Driving license: B



WORKING EXPERIENCE

- May 2026 - Now
Head of Phytochemical and Semisynthetic Research Labs – Indena
Management of the research group focused on the definition of the processes for the industrial preparation of pharmaceutical and nutraceutical products (extraction, semi-synthesis, and synthesis).
Evaluation of new potential projects (e.g. CDMO) and technologies.
- Jan 2023-Apr 2026
Head of Semisynthetic Research Labs – Indena
Management of the research lab group activities and group personnel.
Evaluation of potential new research projects and preparation of project plans.
Tutor of master and PhD students in collaboration with academic institutions.
- Oct 2016 – Dec 2022
R&D process chemist – Indena
Semisynthetic research group.
Development of synthetic and semisynthetic processes for the industrial preparation of API (process definition and optimization).

EDUCATION

- Oct 2016 – Jan 2020
PhD in Chemistry – Università degli studi di Milano (in collaboration with Indena)
Dottorato in apprendistato di alta formazione e ricerca
Thesis: New synthetic processes for the industrial preparation of generic active principles. Supervisors: Prof. A. Bernardi, Dr. D. Ciceri.
- Oct 2014 – Oct 2016
Master degree in Chemistry (full marks 110/110 cum laude) – Università degli studi di Milano
Thesis: Structural optimization of 1,2-mannobioside mimetics as DC-SIGN antagonists. Supervisor: Prof. A. Bernardi.
- Oct 2011 – Oct 2014
Bachelor degree in Chemistry (full marks 110/110 cum laude) – Università degli studi di Milano
- Sep 2006 – Jul 2011
High school diploma (full marks 100/100) - Scientific lyceum “Leonardo Da Vinci”, Gallarate.

TECHNICAL SKILLS

Experience in development of processes for the production of API from lab scale to pilot and industrial scale.

Experience in the use of novel process technologies (TFF, flow chemistry).

Good knowledge of multiple analytical techniques, process safety, Good Manufacturing Practice (GMP), intellectual properties basis and literature research.

COMPUTER SKILLS

Software Microsoft Office (Word, Excel, Power Point, Project) Empower, MestreNova, vnmrj, ChemDraw.

LANGUAGE SKILLS

English: level C1 (Listening, Reading, Speaking, Writing) - IELTS certificate level C1 – 7 (21/05/2016).

Experience in the use of English in reports, presentation and communication with customers.

TRANSFERABLE SKILLS

Good communication skills acquired through presentations at seminars, technical meetings and teleconferences with customers.

Experiences of team working, and coordination of groups developed in job activities as project leader and as supervisor of junior researcher

Basic knowledge of project management (Training 48 h- Festo academy).

PUBLICATIONS

- V. Rositano, L. Arnoldi, M. Molinari, F. Sala, A. Gambini, F. Peterlongo, P. Allegrini, E. Gargiulo, G. Chianese, O. Tagliatalata-Scafati, G. Appendino, L. Senaldi, "Voclosporin from Cyclosporine A: Process Optimization and Impurities Characterization", Organic Process Research & Development, 2026, DOI 10.1021/acs.oprd.5c00323.
- L. Senaldi, V. Rositano, M. Molinari, A. Gambini, F. Morana, M. Barbero, "Method for preparing mixture of (E)-voclosporin and (Z)-voclosporin with low Z isomer content", patent application WO2025141456.
- V. Rositano, M. Molinari, L. Senaldi, P. Allegrini, "Process for the preparation of a cyclopeptide aldehyde intermediate useful for the synthesis of voclosporin", patent application WO2024157132.
- V. Rositano, A. Gambini, P. Allegrini, A. Bernardi, L. Senaldi, "A Practical, Scalable Synthesis of 1,18-Octadecanedioic acid-Paclitaxel (ODDA-PTX)", European Journal of Organic Chemistry, 2024, 27(14), e202301211.
- S. Mazzotta, V. Rositano, L. Senaldi, A. Bernardi, P. Allegrini, G. Appendino, "Scalemic Natural Products", Natural Product Reports, 2023, 40 (10), 1647-1671.
- V. Rositano, L. Senaldi, A. Gambini, A. Bernardi, "Preparation of taxane derivatives", patent application WO2023053054.
- L. Medve, S. Achilli, J. Guzman-Caldentey, M. Thepaut, L. Senaldi, A. Le Roy, S. Sattin, C. Ebel, C. Vives, S. Martin-Santamaria, A. Bernardi, F. Fieschi, "Enhancing Potency and Selectivity of a DC-SIGN glycomimetic ligand by Fragment-Based Design: Structural basis", Chemistry – A European Journal, 2019, 15, 14659-14668.
- L. Senaldi, D. Ciceri, P. Allegrini, A. Bernardi, "Process for the preparation of Lenvatinib", patent EP3620453.
- L. Senaldi, D. Ciceri, P. Allegrini, M. Ricotti, "New crystal form of Lenvatinib", patent EP3620452.

COMMUNICATIONS

- L. Senaldi, "Strategie per ridurre l'impatto ambientale della produzione di API: opportunità tecnologiche ed impatto regolatorio", comunicazione alla giornata "Sostenibilità dal Principio Attivo al Prodotto Medicinale: Approcci Normativi e Best Practices", Aschimfarma ed AFI.
- L. Senaldi, D. Lanaro, L. Arnoldi, F. Peterlongo, P. Allegrini and G. Appendino, "Synthesis, conformational behavior and occurrence of cannabidiol isomers", plenary lecture, 25th Isoprenoid Conference.
- L. Senaldi, C. Tedesco, G. Appendino, F. Peterlongo, P. Allegrini, "Ring contraction and expansion in the synthesis of thiocolchicoside and colchicine", poster at XLI Convegno Nazionale della Divisione di Chimica Organica (CDCO).
- L. Senaldi, P. Allegrini, "Industria e Accademia diverse, ma complementari per le sfide del futuro L'esperienza di Indena", 10^o Conferenza Chimica Sostenibile, Federchimica.
- L. Senaldi, D. Ciceri, A. Bernardi, P. Allegrini, "An improved process for the preparation of Lenvatinib mesylate" Oral communication, XXXVIII Convegno Nazionale della Divisione di Chimica Organica (CDCO).

Curriculum Vitae

Massimo Verzini

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Personal Profile

Executive Director – Chief Technology Officer with over 30 years of experience in pharmaceutical R&D, process chemistry, industrial scale-up, technology transfer, and innovation management. Proven track record in leading multi-site international R&D organizations, integrating sustainability, QbD/DoE, digital tools, and strategic portfolio governance in CDMO and API manufacturing contexts.

Work Experience

2017 – Present | Flamma S.p.A. (Italy, USA, China)

Executive Director – Chief Technology Officer

- Global governance of R&D and technology development across Europe, US, and China
- Portfolio and lifecycle management of APIs and advanced intermediates
- Integration of digital tools (ELN, Project Management Systems)
- Budget ownership, strategic planning, and innovation roadmap definition
- Establishment of Flamma Academy for technical and managerial competence development

2016 – 2017 | Farmabios (Pharmzell Group), Italy – R&D Director

2015 – 2016 | ZaCh System (Zambon Group), Italy/France – R&D Director

2007 – 2015 | ZaCh System (Zambon Group), Italy – R&D Manager

1999 – 2007 | ZaCh System (Zambon Group), Italy – Head of Pilot Plant / Process Development

Education and Training

M.Sc. in Chemistry and Pharmaceutical Technology – University of Padua, Italy

Publications – Peer Reviewed Articles

1. Ronco, P.; Simi, A.; Lunghi, E.; Della Negra, F.; Trucchi, B.; Verzini, M.; Zandoni, G. Electrochemical Decarboxylative Hydroxylation for the Sustainable Synthesis of Bempedoic Acid. *ChemElectroChem*, 2026, 13(6), e70173.
2. Ferrara, M.; Della Negra, F.; Verzini, M. Solvent Eco-Impact Metric: A Tool for Chemists to Drive Sustainability in Chemical Processes across Safety, Health, Waste, and Environmental Aspects. *Organic Process Research & Development*, 2025, 29(4), 1110–1124.
3. Lunghi, E.; Ronco, P.; Della Negra, F.; Trucchi, B.; Verzini, M.; Merli, D.; Casali, E.; Kappe, C. O.; Cantillo, D.; Zandoni, G. Electrifying Friedel–Crafts Intramolecular Alkylation toward 1,1-Disubstituted Tetrahydronaphthalenes. *Journal of Organic Chemistry*, 2023, 88(24), 16783–16789.
4. Martinelli, A.; Volpicelli, R.; Verzini, M.; Cotarca, L.; Maini, L.; Pengo, P.; Pasquato, L. Stereoselective Solvolysis in the Synthesis of Dorzolamide Intermediates. *ACS Omega*, 2023, 8(31), 28851–28858.
5. Saraci, E.; Andreoli, M.; Casali, E.; Verzini, M.; Argese, M.; Fanelli, R.; Zandoni, G. Solvent-Free Synthesis of Chalcones Using $\text{Mg}(\text{HSO}_4)_2$. *RSC Sustainability*, 2023, 1(3), 504–510.
6. Maini, L.; Braga, D.; Farinella, F.; Melotto, E.; Verzini, M.; Brescello, R.; Michieletto, I.; Munari, I. Crystal Forms of Enzalutamide and a Crystal Engineering Route to Drug Purification. *Crystal Growth & Design*, 2018, 18(7), 3774–3780.
7. Rossi, S.; Benaglia, M.; Porta, R.; Cotarca, L.; Maragni, P.; Verzini, M. A Stereoselective Catalytic Nitroaldol Reaction as the Key Step in a Strategy for the Synthesis of the Renin Inhibitor Aliskiren. *European Journal of Organic Chemistry*, 2015, (11), 2531–2537.
8. Cotarca, L.; Verzini, M.; Volpicelli, R. Catalytic Asymmetric Transfer Hydrogenation: An Industrial Perspective. *Chimica Oggi*, 2014, 32(5), 36–41.
9. Pichler, U.; Scrimin, P.; Tecilla, P.; Tonellato, U.; Veronese, A.; Verzini, M. Efficient and Selective Transport of ω -Amino Acids across a Bulk Chloroform Membrane by a Macrocyclic Dicopper(II) Complex. *Tetrahedron Letters*, 2004, 45(8), 1643–1646.
10. Garbuglia, M.; Verzini, M.; Hofmann, A.; Huber, R.; Donato, R. S100A1 and S100B Interactions with Annexins. *Biochimica et Biophysica Acta – Molecular Cell Research*, 2000, 1498(2–3), 192–206.
11. Garbuglia, M.; Verzini, M.; Sorci, G.; Bianchi, R.; Giambanco, I.; Agneletti, A. L.; Donato, R. The Calcium-Modulated Proteins S100A1 and S100B as Regulators of Type III Intermediate Filament Dynamics. *Brazilian Journal of Medical and Biological Research*, 1999, 32(10), 1177–1185.
12. Scrimin, P.; Tecilla, P.; Tonellato, U.; Verzini, M.; Andreini, B. P.; Coutant, J. E.; Zerilli, L. F. Kinetics and Thermodynamics of Binding of a Model Tripeptide to Teicoplanin and Analogous Semisynthetic Antibiotics. *Journal of Organic Chemistry*, 1996, 61(18), 6268–6272.

Patents

13. Process for obtaining disodium tyrosine by spray drying. WO2023187602 A1, 2023.
14. Process for the purification of (R)-2-amino-3-phenylpropyl carbamate. WO2021250067 A2, 2021.
15. Process for the preparation of panobinostat. WO2021170719 A1, 2021.
16. Process for the preparation of aminotetrahydropyrans as DPP-4 inhibitors. WO2017093209 A1, 2017.
17. Process for preparing gabapentin. IT1420248 B1.
18. Process for the preparation of 8-aryloctanoic acid intermediates useful for aliskiren synthesis. IT1418831 B1.
19. Asymmetric reduction of thienothiopyran derivatives (dorzolamide intermediates). IT1404407 B1.
20. Process for preparing nebivolol via palladium-catalysed debenzylolation. IT1392067 B1.
21. Process for preparing nebivolol. US8927742 B2, 2014.
22. Process for preparing enantiomerically enriched oxamides useful for dorzolamide synthesis. US8927740 B2, 2014.
23. Process for preparing cinacalcet. US8637708 B2, 2013.
24. Process for preparing cinacalcet. US8614353 B2, 2013.
25. Crystalline forms of macrolide compounds endowed with anti-inflammatory activity. US7956042 B2, 2011.
26. Method of detecting polymorphs using synchrotron radiation. US20140185767 A1, 2014.
27. Polymorphic form of bazedoxifene acetate. WO2010151541 A1, 2010.
28. Stable polymorphic form of bazedoxifene acetate. WO2009102773 A1, 2009.
29. Crystalline macrolides with anti-inflammatory activity. WO2007003422 A1, 2007.
30. Process for preparing a gabapentin precursor. WO2006000562 A1, 2006.
31. Process for the preparation of gabapentin by precipitation. WO2005092837 A2, 2005.
32. Process for preparation of diarylpyridine intermediates (COX-2 inhibitors). WO2003051843 A1, 2003.
33. Process for the preparation of cephalosporins. EP822195 A1.
34. Process for the preparation of penicillins. EP820999 A1.
35. Process for manufacturing monoperacids. EP778270 A1.



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Linkedin <https://www.linkedin.com/in/giulia-licini-0357589/>

Education and Qualifications

1979-1984	Degree in Chemistry, University of Padova (Italy)
1985-1986	Research Chemist; Istituto Guido Donegani, Novara, Italy
1986-1988	Ph.D. in Chemical Science, University of Padova (Italy)
1988-1989	Post-doctoral Research Fellow at Colorado State University, Fort Collins, CO, USA, (Albert I. Meyers' group)
1989-1990	Research Associate, National Research Council, Padova (Italy)
1990-2000	Research Associate, University of Padova (Italy)
2000-2011	Associate Professor in Organic Chemistry, University of Padova (Italy)
2011-present	Full Professor in Organic Chemistry, Department of Chemical Sciences, University of Padova (Italy)
May 2007	Visiting Professor Università Louis Pasteur, Laboratoire de Chimie Organométallique et de Catalyse, Institut LeBel, Strasbourg, France.
Nov - Dec 2016	Visiting researcher Engineering of Molecular Nanosystems Group, Université libre de Bruxelles.
Nov - Dec 2017	Visiting researcher Engineering of Molecular Nanosystems Group, Université libre de Bruxelles.
2013-2024	Collaborateur Scientifique, Engineering of Molecular Nanosystems Group, Université libre de Bruxelles.
Since October 2024	Corresponding member of Accademia Galileiana di Scienza, Lettere e Arti, Padova

Distinctions

"A. Mion" prize, Faculty of Science, University of Padova (1996)

Major Research Interests

- Design and synthesis of new chiral/polydentate ligands and receptors
- Synthesis and structural characterization, reactivity and mechanistic study of metal catalysts.
- Catalytic activation of small molecules (CO_2 , O_2 , H_2O_2) for selective transformation of organic compounds
- Biomass purification and catalytic oxidative valorization of biomass (lignin).

Giulia Licini started her scientific activity at the University of Padova with Giorgio Modena and Ottorino De Lucchi working on cycloaddition reaction of vinyl bis-sulfones. In 1985 she joined the Research Institute Donegani, Novara working on fluorinated polymers. From 1986 to 1988 she carried out her PhD at the University of Padova, Doctoral School in Chemical Sciences, supervisor prof. Giorgio Modena on stereoselective sulfoxidations and use of sulfoxides in stereoselective synthesis. After she spent one year at the Colorado State University in Albert I. Meyer group working on tandem addition on naphthyl oxazolines with a CNR fellowship. In 1990, after a short period as CNR research c/o Department of Organic Chemistry, University of Padova, she became research associate (ricercatore) in Organic Chemistry at the Department of Organic Chemistry, University of Padova. In the same University in 2000 she became Associate Professor and since 2011 she is full professor in Organic Chemistry at the Department of Chemical Sciences. Her main research interests focus on the development of new ligands and homogeneous complexes and their application in homogeneous catalysis for small molecules activation (H_2O_2 , O_2 , CO_2) in green chemistry processes for biomass valorisation and CO_2 activation. She is also interested in the reaction mechanism studies and molecular recognition processes.

She has been visiting professor at the University of Strasbourg (2007) and at the Université Libre de Bruxelles (2016 and 2017).

Since October 2024 she is Corresponding member of the Accademia Galileiana di Scienze, Lettere e Arti (<https://www.accademiagalileiana.it/index.php>).

She is President of the Committee for the National Scientific Qualification (ASN) SSD CHEM/05A – Organic Chemistry (2024-26).

Academic activities

She has been the President of the 'Commissione tutorato' of the Faculty of Scienze MMFFNN, now School of Science for more than 15 years and member of the Commissione di Ateneo 'Orientamento e Tutorato' of the University of Padova till 2023. She was member of the 'Commissione paritetica' School of Science, UNIPD and President till January 2024.

She is representative of University of Padova of the STEM WG of the Coimbra Group acting as Chair (2019-2022) and now vice-chair (2023-26). (<https://www.coimbra-group.eu/>)

She has been a member of board the Padova University Center of Human Rights (2019-2022) (<https://unipd-centrodirittumani.it/>)

She is member of the Scientific Council of the Interuniversity Consortium Reactivity and Catalysis (CIRCC) and she has been representative of the University of Padua (2005-2021).

She attended the 1st and 2nd level course of Teaching4Learning for active and innovative teaching and learning at the University of Padova. Since 2021 she is a Change Agent (<https://www.unipd.it/en/t4l-change-agent>) and now Faculty Development Trainer. (<https://www.unipd.it/teaching4learning>)

She is Director of the percorso per la formazione iniziale dei docenti delle scuole secondarie di primo e secondo grado, CLASSE A034 since aa 2023/24.

She is President of the Course in Chemistry (LT and LM) (2025-2029).

Teaching

Since 1996 she has been teaching Organic Chemistry Courses in Chemistry, Industrial Chemistry, Biotechnology, Chemistry and Pharmaceutical Technologies Chemical at LT and LM level at the University of Padova.

PhD:

Chemistry (4 CFU CHEM/05-A) LT in Biology for Human and Environmental Health

Roles inside the Società Chimica Italiana

She is member of the Italian Chemical Society/Division of Organic Chemistry since 1986. She is member of the Divisions of Industrial Chemistry, Inorganic Chemistry and Chemical Education and the Interdivisional Groups of Green and Sustainable Chemistry, Catalysis, Organometallic.

She was President of Section Veneto the Italian Chemical Society (2005-07);

Member of the board (2012-2017) of the interdivisional Catalysis group;

Chair (2022-24), past Chair (2025-2027) and member of the board (2019-2021) of the Interdivisional Group of Green and Sustainable Chemistry (2022-24)

Member of board of the Division of Organic Chemistry (2023-25) of the Italian Chemical Society.

Since 2019 she is Chair of the IAB of the International Vanadium Symposium and since 2024 she is member the IAB of the International Symposium on Dioxygen Activation and Homogeneous Catalytic Oxidations (ADHOC).

She was part of Cost Actions: CM1003 (2011-2015) (MC member), CM1005 (2011-2015) (MC member and STSM manager), CM 1205 (2013-2017) (vice-Chair and MC member); FP1306 (2014-2018) (WG member) and currently she is part of the CA22131 'LUCES' action as MC member. Has received European funding (RTN, V Framework Program (2002-2006)), and funding from the Italian Ministry of Education and Research (MIUR); University of Padua, Cariparo Foundation, DuPont -Italy, EVC-Italy, Region Veneto and National and European private companies (EVC-UK, Ineos Vinyls Italy, Fidia SpA, Corichem, Newchem SpA, Lundbeck Italia).

Prof. Licini is the author and co-author of more than 150 scientific publications in international journals and books with more than 4400 citations and an h-index of 36. She has been invited as speakers at national and international conferences, schools and Universities.

She has been chair/co-chair or board member of the following national and international conferences/schools:

- European-Winter School on Physical Organic Chemistry (E-WiSPOC 2011, E-WiSPOC 2012, E-WiSPOC 2013, E-WiSPOC 2014) (Board)), Bressanone, Italy (2011, 2012, 2013, 2014) (Chair);
- International Summer School on Organic Synthesis A. Corbella, Gargnano, Italy (2015-17) (Board)
- Dioxygen Activation and Homogeneous Catalysis (ADHOC-2008), Venice, Italy, 2008;(Co-Chair)
- X Congress of Interdivisional Group of Organometallic Chemistry, Padova, Italy, 2012; (Co-Chair)
- IX International Symposium on Vanadium (V-9), Padova, Italy, 2014; (Co-Chair)
- II China-Italy Bilateral Meeting, Padova, Italy 2015 (Chair).
- XIX conference of the Interdivisional group of Catalysis, Italian Chemical Society, Bressanone, BZ, Italy, 2016 (Chair).
- III China-Italy Bilateral Meeting, Wuhan, China 2017 (co-chair).
- IV China-Italy Bilateral Meeting, Bologna, Italy 2019 (Board).
- VII Workshop of the Interdivisional Group of Green and Sustainable Chemistry of the Italian Chemical Society, July 5th 2019, Padova (Chair)
- Dioxygen Activation and Homogeneous Catalysis (ADHOC-2024), Venice, Italy, 2024;(Co-Chair)
-

Active scientific collaborations:

K. Rissanen (Javaskyla, FI), V. Conte (Roma Tor Vergata, Rome, IT; L. Rodriguez (UB, Barcellona, SP) K. Bartik (ULB, Brussels, B); A. Kleij, (ICIQ Tarragona, SP); C. Bo (ICIQ Tarragona, SP), L. Orian (UNIPD, Padova, IT)

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- URL for web site:

Current and Previous positions

1979-1984 Degree in Chemistry, University of Padova (Italy)
1985-1986 Research Chemist; Istituto Guido Donegani, Novara, Italy
1986-1988 Ph.D. in Chemical Science, University of Padova (Italy)
1988-1989 Post-doctoral Research Fellow at Colorado State University, Fort Collins, CO, USA, (Albert I. Meyers' group) CNR fellowship
1989-1990 Research Associate, National Research Council, Padova (Italy)
1990-2000 Research Associate, University of Padova (Italy)
2000-2011 Associate Professor in Organic Chemistry, University of Padova (Italy)
2011-present Full Professor in Organic Chemistry, Department of Chemical Sciences, University of Padova (Italy)

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Prizes and awards

"A. Mion" prize, Faculty of Science, University of Padova (1996)
Corresponding member of Accademia Galileiana di Scienza, Lettere e Arti, Padova (since October 2024 -

(max 1.000 characters)

Visiting academic positions

May 2007 - Visiting Professor Università Louis Pasteur, Laboratoire de Chimie Organométallique et de Catalyse, Institut LeBel, Strasbourg, France.

Nov - Dec 2016 - Visiting researcher Engineering of Molecular Nanosystems Group, Université libre de Bruxelles.

Nov - Dec 2017 - Visiting researcher Engineering of Molecular Nanosystems Group, Université libre de Bruxelles.

2013-2024 - Collaborateur Scientifique, Engineering of Molecular Nanosystems Group, Université libre de Bruxelles.

Nov. 2026: Visiting professor Department of Chemistry, Osaka Metropolitan University, JP

(max 1.000 characters)

Teaching activities and supervision

PhD Since 1996 G. M. Licini has been teaching organic chemistry classes (Organic Chemistry 1, 2 and 3; advanced courses in asymmetric synthesis; green chemistry; biocatalysis for Chemistry, Industrial Chemistry, Biotechnology, Biology, Chemical and Pharmaceutical Technologies degrees (LT, LM, LMcu and at PhD level) University of Padova.

Supervisor of 14 PhD theses (PhD Course of Molecular Sciences, UNIPD) and several master thesis.

She is member of the Collegio Docenti of the PhD in Molecular Sciences, UNIPD and Dottorato di interesse Nazionale in Catalisi.

She has the 1st and 2nd level for active and innovative teaching (Teaching4Learning) University of Padova. Since 2021 she is a Change Agent (<https://www.unipd.it/en/t4l-change-agent>) and now also Faculty Development Trainer. (<https://www.unipd.it/teaching4learning>) *(max 1.000 characters)*.

Member of the Board of the European-Winter School on Physical Organic Chemistry, Bressanone, Italy (chair for the 2011, 2012, 2013, 2014) Editions and Board of the International Summer School on Organic Synthesis A. Corbella, Gargnano, Italy (2015-17).

National and international collaborations and networks that contribute to enhancing the scientific quality and feasibility of the proposal

Chair of the IAB of the International Vanadium Symposium (2019- ; Member the IAB of the International Symposium on Dioxygen Activation and Homogeneous Catalytic Oxidations (ADHOC) (2024-).

Cost Action CA22131 'LUCES' (Management Committee and Core Group member).

National Collaborations: L. Orian (UNIPD, Padova) computational studies on V-catalyzed oxidations; A. Napolitano; L. Panzella (UNINA) characterization of bio-based polyphenol (from waste biomass); C. Punta (POLIMI, Milano) sustainable extraction of cellulose from lignocellulosic biomass, characterization and valorization.

International collaborations:

K. Rissanen (Javaskyla, FI), (X-ray structures)

L. Rodriguez (UB, Barcellona, SP) photoluminescent complexes, synthesis and characterization
K. Bartik (ULB, Brussels, B) development and studies of aerobic oxidation in micellar media.

A. Kleij, (ICIQ Tarragona, SP); (catalysts for CO₂ activation)

C. Bo (ICIQ Tarragona, SP), (computational studies)

(max 2.000 characters)

Other work experience consultancy if any)

(e.g. She has been

consultant for following companies: DuPont -Italy, EVC-Italy, EVC-UK, Ineos Vinyls Italy, Fidia SpA, Corichem, Newchem SpA, Lundbeck Italia).

chair/co-chair of the following national and international conferences:

- European-Winter School on Physical Organic Chemistry Bressanone, Italy (2011, 2012, 2013, 2014) (Chair);
- Dioxygen Activation and Homogeneous Catalysis (ADHOC-2008), Venice, Italy, 2008;(Co-Chair)
- X Congress of Interdivisional Group of Organometallic Chemistry, Padova, Italy, 2012; (Co-Chair)
- IX International Symposium on Vanadium (V-9), Padova, Italy, 2014; (Co-Chair)
- II China-Italy Bilateral Meeting, Padova, Italy 2015 (Chair).
- XIX conference of the Interdivisional group of Catalysis, Italian Chemical Society, Bressanone, BZ, Italy, 2016 (Chair).
- III China-Italy Bilateral Meeting, Wuhan, China 2017 (co-chair).
- IV China-Italy Bilateral Meeting, Bologna, Italy 2019 (Board).
- VII Workshop of the Interdivisional Group of Green and Sustainable Chemistry of the Italian Chemical Society, July 5th 2019, Padova (Chair)
- Dioxygen Activation and Homogeneous Catalysis (ADHOC-2024), Venice, Italy, 2024;(Co-Chair)

Roles and responsibilities

- Administrative role and position At responsibility

University of Padova:
President of the 'Commissione tutorato' of the Faculty of Scienze MMFFNN, now School of Science for more than 15 years and member of the Commissione di Ateneo 'Orientamento e Tutorato' of the University of Padova till 2023.

Member of the 'Commissione paritetica' School of Science, UNIPD and President till January 2024.

She is representative of University of Padova of the STEM WG of the Coimbra

Group acting as Chair (2019-2022) and now vice-chair (2023-26).
(<https://www.coimbra-group.eu/>)

She has been a member of board the Padova University Center of Human Rights (2019-2022) <https://unipd-centrodirittiumani.it/>

Director of the Initial training program for teachers in secondary schools, CLASSE A034 since aa 2023/24

President of the Chemistry Course/Laurea and Laurea Magistrale, School of Science since 2025-2029.

MUR: President of the Committee for the National Scientific Qualification (ASN) SSD CHEM/05A – Organic Chemistry (2024-26).

(max 2.000 characters)

-Scientific organisations/Coordination of academic activities

Member of the Scientific Council of the Interuniversity Consortium Reactivity and Catalysis (CIRCC) and she has been representative of the University of Padua (2005-2021).

President of Section Veneto the Italian Chemical Society (2005-07); Coordinator of the Interdivisional Green&Sustainable Chemistry Group of the Italian Chemical Society ((2022-24) and past-coordinator (2025-27)

Member of board of the Division of Organic Chemistry (2023-25) of the Italian Chemical Society

(max 2.000 characters)

Editorial activity

(max 2.000 characters)

Membership of scientific societies

Italian Chemical Society (Organic Chemistry Division; Inorganic Chemistry Division; Industrial Chemistry Division; Didattic Division; Thematic groups: Green&Sustainable Chemistry; Catalysis.

American Chemical Society: Organic, Inorganic, Education Divisions

Corresponding member of Accademia Galileiana di Scienza, Lettere e Arti, Padova (<https://www.accademiagalileiana.it/index.php>)

(max 2.000 characters)

Funding (current and past)

* da compilare nella tabella sottostante

Significant career breaks

(max 500 characters)

Funding (current and past) *

Dopo aver compilato e salvato le prime tre righe, il sistema ne genera automaticamente delle ulteriori.

Prof Daniele Leonori

Institute of Organic Chemistry, RWTH Aachen University, Germany

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• **CAREER & EDUCATION**

from 2025 **Director** of the Institute of Organic Chemistry, RWTH Aachen University, Germany
from 2022 **W3 Chair in Organic Chemistry**, RWTH Aachen University, Germany
2020–2022 **Professor of Organic Chemistry**, University of Manchester, UK
2018–2020 **Reader (Associate Professor)**, University of Manchester, UK
2014–2018 **Lecturer (Assistant Professor)**, University of Manchester, UK
2012–2014 **Research Officer** under the mentorship of Prof V. K. Aggarwal FRS, University of Bristol, UK
2011–2012 **PostDoc** under the supervision of Prof P. H. Seeberger, Max Plank Institute, Germany
2010–2011 **PostDoc** under the supervision of Prof M. Rueping, RWTH Aachen University, Germany
2007–2010 **PhD** in Organic Chemistry under the supervision of Prof I. Coldham, University of Sheffield, UK
2001–2006 **MSc in Medicinal Chemistry** (Summa cum laude), Università degli Studi di Perugia, Italy

• **RESEARCH GRANTS** (total: > €7M, all grants have been awarded as PI)

2024	DFG-ANR Research Grant – €350k	2019	AstraZeneca PhD iCASE Award – £81k
2023	DFG Infrastructure Grant – €600k	2018	ERC Starting Grant – €1.5M
2023	ERC Consolidator Grant – €2M	2017	EPSRC Early Career Fellowship – £1.2M
2023	ERC Proof-of-Concept Grant – €150k	2017	Eli Lilly PhD CASE Award – £34k
2021	EPSRC Responsive Mode Grant – £480k	2016	Leverhulme Trust Research Grant – £105k
2021	EPSRC New Horizon Grant – £100k	2016	AstraZeneca PhD CASE Award – £28k
2020	EPSRC Responsive Mode Grant – £380k	2015	AstraZeneca PhD CASE Award – £25k
2019	AstraZeneca PhD CASE Award – £28k	2013	Marie Curie Career Integration Grant – €100k

• **INDUSTRIAL COLLABORATIONS** (total: €660k)

2025	Janssen Research Grant – €80k	2023	AstraZeneca Collaboration – €300k
2024	Minakem Research Grant – €120k	2023	Sanofi Research Grant – €40k
2024	Bayer Research Grant – €40k	2019	Janssen Research Grant – €80k

• **EXTERNAL FELLOWSHIPS HOSTED** (total: > €5M)

2026	Humboldt Fellowship, Dr T. Sephton	2023	MSCA Individual Fellowship, Dr W. Olivier
2025	NRF International Fellowship, Dr Y. Jung	2023	MSCA Individual Fellowship, Dr J. Corpas
2025	Kekule PhD Fellowship, Ms C. Pinard	2023	CAPEs-Humboldt Fellowship, Dr T. dos Silva
2025	AFR PhD Fellowship, Ms M. Weiberg	2022	Margarita Salas Fellowship, Dr. E. Matador
2025	MSCA Individual Fellowship, Dr H. Liang	2022	Kekule PhD Fellowship, Mr N. Kehl
2025	MSCA Individual Fellowship, Dr H. Hao	2022	Xunta de Galicia Fellowship, Dr E. Rivera
2025	MSCA Individual Fellowship, Dr D. Reza	2021	MSCA Individual Fellowship, Dr L. Liu
2025	MSCA Individual Fellowship, Dr A. C. Han	2020	MSCA Individual Fellowship, Dr Z. Zhang
2025	MSCA Individual Fellowship, Dr K. Chen	2018	MSCA Individual Fellowship, Dr H. Zhao
2024	MSCA Individual Fellowship, Dr E. Arpa	2018	MSCA Individual Fellowship, Dr J. H. Kim
2024	DAAD PhD Fellowship, Mr J. Rodriguez	2017	MSCA Individual Fellowship, Dr S. Dighe
2024	MSCA Individual Fellowship, Dr P. Peng	2016	MSCA Individual Fellowship, Dr A. Ruffoni
2024	MSCA Individual Fellowship, Dr G. Lonardi		

• **RESEARCH AWARDS**

2026	SSOCJ Lectureship Award (Japan)	2019	Philip Leverhulme Prize
2025	Giorgio Modena Medal	2019	AstraZeneca Award for Outstanding Contributions to Organic Synthesis
2025	Novartis Chemistry Lectureship Award	2019	University of Tasmania Research Scholarship
2023	ACS Organic Letter Paper of the Year Award	2018	Harrison-Meldola Memorial Prize
2023	Zimmer International Scholar Award	2017	Thieme Journals Chemistry Award
2022	ChemSocRev Pioneering Lectureship	2016	European Young Chemist Award
2021	EuChemS Young Investigator Award	2015	UNESCO/IUPAC/PhosAgro Chemistry Award
2020	Blavatnik Laureate in Chemistry for the UK		

• **TEACHING AWARDS**

2023 **Best Teacher of the Year Award**, RWTH Aachen University

• **NAMED LECTURESHIPS**

2025	Organic Synthesis Lectureship – UC Irvine	2023	Chaires Joliot Lectureship – ESPCI
2024	Merck Lectureship – UC Berkeley	2023	Merck Lectureship – UCL
2024	Abbvie Lectureship – UI Urbana-Champaign	2023	Zimmer Lectureship – UCincinnati
2024	Keith Fagnou Memorial Lectureship – UOttawa	2022	Novartis Lectureship – MIT
2023	GIOSS Lectureship – Indiana University	2021	Organic Synthesis Lectureship – UWisconsin

• **EDITORIAL ROLES**

from 2024	Advisory Board Member – <i>Acc. Chem. Res.</i>	from 2021	Advisory Board Member – <i>Chem. Soc. Rev.</i>
from 2023	Associate Editor – <i>Synthesis</i>	2019–2021	Science of Synthesis Early Career Board Member
from 2021	Advisory Board Member – <i>Chem. Sci.</i>		

• **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS (from 2014)**

29 PhD students (14 graduated, 15 current)	26 PostDocs (9 current)	14 MChem Students (12 graduated, 2 current)
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• **FORMER GROUP MEMBERS IN INDEPENDENT ACADEMIC POSITIONS**

Dr Kengo Kasama	PDRA (2024–2025)	now Assistant Professor at University of Toyama, Japan
Dr Zhenhua Zhang	PDRA (2021–2025)	incoming Assistant Professor at Shenzhen University, China
Dr Yang Xu	PDRA (2023–2025)	now Assistant Professor at Shenzhen University, China
Dr Javier Corpas	PDRA (2022–2025)	now Ramón y Cajal Fellow at <i>Universidad Autónoma de Madrid</i> , Spain
Dr Eva Rivera-Chao	PDRA (2022–2025)	now Ramón y Cajal Fellow at <i>Universidade de Santiago de Compostela</i> , Spain
Dr Michael Tilby	PDRA (2021–2024)	now Assistant Professor at <i>University of Bristol</i> , UK
Dr Alessandro Ruffoni	PDRA (2017–2024)	now W1 Professor at <i>Kiel University</i> , Germany
Dr Naoki Yasukawa	PDRA (2022–2023)	now Assistant Professor at <i>Nagoya Institute of Technology</i> , Japan
Dr Shashikant Dighe	PDRA (2018–2020)	now Assistant Professor at A*STAR, Singapore
Dr Kento Nakamura	PDRA (2020–2021)	now Assistant Professor at <i>Hokkaido University</i> , Japan
Dr Fabio Julia	PDRA (2017–2020)	now Assistant Professor at <i>University of Murcia</i> , Spain
Dr Sara Morcillo	PDRA (2016–2018)	now Assistant Professor at <i>University of Granada</i> , Spain

- **TEACHING ACTIVITIES**

from 2022	Asymmetric Bio-Organocatalysis , ~70 students per year, RWTH Aachen University
from 2022	Photochemistry and Photocatalysis , ~70 students per year, RWTH Aachen University
2017–2021	Organic Photochemistry , ~35 students per year, University of Manchester
2017–2021	Pericyclic Reactions , ~160 students per year, University of Manchester
2014–2017	Asymmetric Synthesis , ~70 students per year, University of Manchester
2012–2014	Modern Methods in Organic Synthesis , ~150 students per year, University of Bristol

- **INSTITUTIONAL ROLES**

from 2025	Director of the Institute of Organic Chemistry (RWTH)
from 2025	Member of the Strategy Board for the Department of Chemistry (RWTH)
from 2025	Chair of the appointing committee for W2 Professorship in Biocatalysis (RWTH)
2018–2022	Deputy member of the Organic Section (University of Manchester)
2014–2022	Seminar organizer (University of Manchester)

- **KNOWLEDGE TRANSFER AND OUTREACH ACTIVITIES**

From 2025	Outreach activity at the Aachen Theatre "Chemistry Orchestra"
From 2024	Outreach activity at Vincerola International School, Aachen, Germany
2018–2021	Outreach activity on photocatalysis at the Manchester Grammar School, UK
2018	Invited speaker at the 1st European Meeting of Excellence in Chemistry and Molecular Sciences – EMCS (Vienna, Austria) – I was invited to discuss the role of photochemistry in EU science. The meeting was attended by representative of all major pharma companies, the EU Parliament and opened by the Austrian Minister for Education.

- **ORGANISATION OF SCIENTIFIC MEETINGS**

2017–2021	Annual Department of Chemistry Postgraduate Conference , >300 delegates, Manchester, UK
2017	RSC Organic Division North-West Regional Meeting , >100 delegates, Manchester, UK
2015	Anglo-Japanese Meeting on Asymmetric Catalysis , >200 delegates, Manchester, UK

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

from 2017	Member of the EPSRC Peer Review College, UK
from 2017	Member of the Società Chimica Italiana, Italy
from 2012	Member of the Royal Society of Chemistry, UK