

Curriculum vitae

PERSONAL INFORMATION

Family name, First name: Metrangolo, Pierangelo; Researcher unique identifier (ORCID): 0000-0002-7945-099X; Date of birth: 16 April 1972; Nationality: Italian; <https://www.suprabionano.eu/>;

• EDUCATION

- 2003 Specialization School in Synthetic Organic Chemistry (2 years), and
- 2001 Ph.D. in Industrial Chemistry and Chemical Engineering (3 years), Dept. Chem., Mater., & Chem. Eng. “Giulio Natta” (DCMCE), Politecnico di Milano (PoliMI), Italy
- 1997 Master Degree in Pharm. Chemistry and Technology (Laurea, 5 years), University of Milan, Italy

• CURRENT POSITIONS

- 2011 – Full Professor of Fundamentals of Chemistry for Technologies; DCMCE-PoliMI, Italy
- 2015 – Visiting Professor, Department of Applied Physics, Aalto University, Finland
- 2011 – Research Associate, Centre for Nanosci. & Tech. (CNST@PoliMI), Italian Inst. Tech., Milan, Italy
- 2017 – Research Associate, Nanotec Institute, National Research Council (CNR), Lecce, Italy
- 2021 – Affiliated Researcher, Onco-Tech Lab, European Oncology Institute, Milano, Italy
- 2023 – Affiliated Researcher, BraiNs Lab, JRC Polimi-C. Besta IRCCS, Milano, Italy

• PREVIOUS POSITIONS

- 2017 – 2021 Chairman of the Aalto University Node of the UNESCO Network “Green Chemistry Excellence from Baltic Sea to Mediterranean Sea and beyond (GREENOMICS)”
- 2011 – 2019 Visiting Professor of Molecular Recognition, VTT - Technical Research Centre of Finland
- 2009 – 2010 Research Professor of Molecular Recognition, VTT - Technical Research Centre of Finland
- 2005 – 2011 Associate Professor of Fundamentals of Chemistry for Technologies, and
- 2002 – 2005 Assistant Professor of Fundamentals of Chemistry for Technologies, DCMCE-PoliMI, Italy

• FELLOWSHIPS AND AWARDS

- 2021 “Giorgio Modena” Medal **2021** of the Italian Chemical Society
- 2019 Fluorous Technologies Award, ISoFT, Shanghai (CN), 9 August **2019**
- 2013 – 2019 ERC grantee, StG2012 (Consolidator), project “Folding with Halogen Bonding (FoldHalo)” and Proof of Concept **2017**, project “MINIRES - A Minimalist Peptide Elastomer”
- 2009 Young Chemist Award at the 42nd IUPAC World Chemistry Congress, Glasgow (UK)
- 2009 IUPAC Young Observer at the 42nd IUPAC World Chemistry Congress, Glasgow (UK)
- 2009 CrystEngComm Sponsored Lectureship at the 42nd IUPAC Congress, Glasgow (UK)
- 2005 “Giacomo Ciamician” Medal **2005** of the Italian Chemical Society
- 2005 Journals Grant Award for International Authors of the Royal Soc. of Chem. (RSC), UK
- 2007 – Fellow of the Royal Society of Chemistry (FRSC), UK

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Since 2013, I personally supervised 15 PhD students and 28 post-doctoral fellows. Also, since 2013 I have supervised 11 Master Thesis students. I have been invited several times as trainer and motivator for PhD students and young professionals.

• TEACHING ACTIVITIES (main)

Since 2003, I'm Professor of Fundamentals of Chemistry for *Informatics* and from 2008 also Professor of Fundamentals of Chemistry for *Electronics*, and Politecnico di Milano, Italy.

• ORGANISATION OF SCIENTIFIC MEETINGS (main)

- 2024 Chairman of the XXVIII National Congress of the Italian Chemical Society, Milano, Italy, September 2-6, **2024** (estimated participants > 1500)
- 2023 Committee Member of the “Chemistry at the Molecular Frontiers” Theme at the IUPAC/CHAINS2023, The Hague, 18-25 August 2023 (estimated participants > 2000)
- 2022 Chairman of the 1st School of Supramol. & Bio-Nanomater., Como, Italy, June 13-17, **2022** (100 p.)
- 2019 Chairman of the 14th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMCS2019), Lecce, Italy, June 9-13, **2019** (800 participants)
- 2015 Chairman of the 21st International Symposium on Fluorine Chemistry (ISFC) and 6th International Symposium of Fluorous Technologies (ISoFT), Como, Italy, August 23-28, **2015** (600 participants)
- 2014 Chairman of the 1st International Symposium on Halogen Bonding (ISXB), Porto Cesareo, Lecce, Italy, June 18-22, **2014** (200 participants)

I'm **Chairman** of the International Advisory Board (**IAB**) of the *ISXB*, **IAB Member** of the *ISMCS*, of the *ISoFT*, and of the *International Meeting on Halogen Chemistry*, **Steering Committee Member** of the *ISFC*.

- **INSTITUTIONAL RESPONSIBILITIES (main)**

- 2023 – Rector's Delegate for Sport Activities, Politecnico di Milano, Italy
- 2023 – Member of the Board of Directors and Member of the Executive Committee of Fondazione Politecnico di Milano, Italy
- 2023 – Member of the Regional Forum for Research and Innovation, Lombardy Region, Italy
- 2023 – Coordinator of the Joint Research Center "NEUROTECH", Politecnico di Milano - "C. Besta" Neurological Institute, Italy
- 2020 – 2022 Executive Deputy Head of the Dept. Chem. "Giulio Natta", Politecnico di Milano, Italy
- 2016 – Coordinator of the Interdept. Lab. of Nanomedicine, Coordinator of the Interdept. Lab. "NEXT-GAME" (2022-), Coordinator of the Supramol. & Bio-Nanostruct. Mater. Lab. (2017-), Politecnico di Milano, Italy
- 2022 – Coordinator of the *Joint Research Center* between Polimi-Solvay Specialty Polymers

- **REVIEWING ACTIVITIES**

- I'm evaluator for a number of funding agencies; International: European Research Council (**ERC**); - Petroleum Research Fund of the American Chemical Society (**PRF**); - Agence Nationale de la Recherche (**ANR**); Fondation pour la Recherche en Chimie; (**FRC**); Stanford Synchrotron Radiation Lightsource (**SSRL**); - Slovak Research and Development Agency (**APVV**); - Croatian National Science Foundation; - Innovation and Technology Fund of Hong Kong; - The Executive Agency for Higher Education, Research, Development and Innovation Funding of Romania (**UEFISCDI**); - University of Strasbourg; - Government of the Russian Federation; - Croatian Science Foundation (**CSF**); - National Research Foundation of South Africa (**NRF**); - American National Science Foundation (**NSF**); National: - Ministero dell'Università e della Ricerca (**MIUR**), **Firb**, **Prin**, **ANVUR**, **VQR**; - University of Padua.
- I'm referee for the major chemistry and materials journals, e.g., *Science*, *Nature Chem.*, *Nature Nanotech.*, *Angew. Chem. Int. Ed.*, *Adv. Mater.*, *Chem. Rev.*, *Chem. Soc. Rev.*, *J. Am. Chem. Soc.*, *Chem. Eur. J.*, *Chem. Commun.*, *J. Mater. Chem.*, *J. Org. Chem.*, *Org. Lett.*, *J. Mol. Biol.*, *Cryst. Growth Des.*
- 2017 – Chair of the Editorial Board of the Royal Society of Chemistry journal, *CrystEngComm*
- 2014 – Co-editor of the Int. Union of Crystallography journal, *Acta Crystallographica: Section B*
- 2014 – Member of the Editorial Advisory Board of the ACS journal, *Crystal Growth and Design*
- 2018 – Member of the Editorial Board of the Springer Nature journal, *Scientific Reports*
- I have served as external PhD evaluator for: The University of Gothenburg (SE), the University of Antwerp (BE), the Indian Institute of Science (IN), the University of Barcelona (ES), the University of Jyväskylä (FI), the University of Milan (IT).

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- I'm member of a number of scientific societies; International: Royal Society of Chemistry, American Chemical Society, European Crystallography Association, Association of ERC Grantees; National: Italian Chemical Society, Italian Association of Chemistry for Engineering, Italian Association of Crystallography, Italian Liquid Crystals Society, Italian Society of Peptides, ERC in Italy.
- 2022 – 2023 President of the Physical and Biophysical Chemistry Division (Div. I) of the *International Union of Pure and Applied Chemistry (IUPAC)*
- 2020 – 2021 Vice-President and 2016 – 2019 Titular Member of the Div. I of *IUPAC*

- **MAJOR COLLABORATIONS**

In the period 2012-2021 (SciVal) I published 66% of my articles with international collaborators, 22% with only national collaborators, 12% with only colleagues from my institution: M. Fujita (2), S. Matile (3), J. Steed (1), K. Rissanen (7), D. W. Bruce (6), O. Ikkala (5), C. B. Aakeröy (3), M. A. Garcia-Garibay (2).

Relevant for the present proposal: - **Samuel I. Stupp**, Northwestern Univ., USA: Self-assembling peptides; - **P. Shing Ho**, Colorado State Univ., USA: Halogenated biomolecules; - **Olli Ikkala**, Aalto Univ., Finland: Biomaterials; - **Alessandro Gori**, CNR-SCITEC, Milan, Italy: Peptide synthesis. I have also established many research **collaborations with biologist groups** at several hospitals in the Milan area.

- **BIBLIOMETRIC HIGHLIGHTS**

My 266 publications have collected 23,719 cit. (h-index: 67), 20,359 cit. without self- (h-index: 58). I have 1 pubbl. at 2,500 cit., 1 at 1,700 cit., 2 over 1,300 cit. and 2 over 900 cit. (Source: Scopus, May 14, 2023). According to WoS, I published 320 documents with 23,765 cit. (21,591 no self). In 35% of these publications I'm Corresponding Author, in 14% First Author, and in 15% Last Author. For Google Scholar my h-index=72

- **VISITING PROFESSORSHIPS**

- University of York (RS fellow), UK (2007) and (RSC fellow), UK (2005); - Nanoscience Center (Center fellow), Jyväskylä (FI) (2006); - Université Paul Sabatier (EU fellow), Toulouse (FR) (2001)