

TATIANA DA ROS

Department of Chemical and Pharmaceutical Sciences
University of Trieste
Via Licio Giorgieri, 1
34127 Trieste - Italy
phone: +39 040 558 3597
e-mail: daros@units.it

Curriculum Vitae et Studiorum

OCCUPATION

Since October 3rd, **2022**: Full Professor in Medicinal Chemistry c/o Department of Chemical and Pharmaceutical Sciences - University of Trieste.

Research topic: derivatization of carbon nanostructures for biomedical applications; design of new compounds for the treatment of rare diseases

EDUCATION

1999: PhD in Chimica del Farmaco (Medicinal Chemistry) - University of Milan.

Dissertation title: [60]Fullerene Functionalization Studies for Biological Applications (Supervisor Prof. Maurizio Prato).

1995: Laurea in Chimica e Tecnologia Farmaceutiche (Italian MSc Degree in Pharmaceutical Chemistry and Technology) - University of Trieste. Magna cum laude.

Dissertation title: 1,3-Dipolar Cycloaddition in Synthesis of New Potential Bioactive Heterocycles (Supervisor Prof. Marco De Amici).

PROFESSIONAL EXPERIENCES

August 2022: Visiting professor c/o Ynvisible – Almada (Portugal)

February-March 2020: Visiting professor c/o Universidad Nacional de la Plata – La Plata (Argentina)

July-August 2019: Visiting professor c/o Ynvisible – Almada (Portugal)

August 2018: Visiting professor c/o Ynvisible – Almada (Portugal)

July 2018: Invited professor c/o University of Picardie Jules Verne, Amiens

2014-2022: Associate Professor in Medicinal Chemistry c/o Dipartimento di Scienze Chimiche e Farmaceutiche - University of Trieste.

2002-2014: Assistant Professor in Medicinal Chemistry c/o Dipartimento di Scienze Chimiche e Farmaceutiche - University of Trieste.

May-November 2004: Visiting researcher c/o Dr. Mike P. Murphy (Laboratory of Mitochondrial Dysfunction – Dunn Human Nutrition Unit - Medical Research Council, Cambridge, UK. Mitochondrial uptake of dications.

1999-2002: Post-Doc (Assegnista di ricerca) c/o Dipartimento di Scienze Farmaceutiche – University of Trieste

November 2001-February 2002: Visiting researcher c/o Prof. A. Boutevine - Laboratoire de Biophysique - Museum National d'Histoire Naturelle – Paris, France. Conjugation of fullerene derivatives and MGBs with oligonucleotides, tests on triple helix formation and stability using the new conjugates for potential applications in DNA cleavage.

August-September 2001: Visiting researcher c/o Dr. R. Taylor, Fullerene Science Centre – CPES – Sussex University – Brighton, UK. Synthesis of new C₆₀F₁₈ derivatives.

May 2001: Visiting researcher c/o Prof. A. Boutevine - Laboratoire de Biophysique - Museum National d'Histoire Naturelle – Paris, France. Conjugation of fullerene derivatives with oligonucleotides, tests on triple helix formation and stability using the new conjugates for potential applications in DNA cleavage.

June 2000: Visiting researcher c/o Prof. A. Boutevine - Laboratoire de Biophysique - Museum National d'Histoire Naturelle – Paris, France. Conjugation of fullerene derivatives with oligonucleotides, tests on triple helix formation and stability using the new conjugates for potential applications in DNA cleavage.

June-September 1999: Visiting researcher c/o Prof. F. Wudl - Exotic Material Chemistry Institute - Department of Chemistry and Biochemistry - UCLA – USA. Synthesis of new anti-HIV azaketolactam fullerene derivatives, having considerable solubility in polar solvents; synthesis of dyads.

July-September 1997: Visiting researcher c/o Prof. M.R. Bryce - Department of Chemistry and Centre for Molecular Electronics, and Prof. M.C. Petty - School of Engineering and Centre for Molecular Electronics -

University of Durham, Chemistry Department - University of Durham, UK. Thin layer depositions of fulleropyrrolidinium salts by Langmuir-Blodgett technique; synthesis of dyads having fullerene as acceptor unit and TTF as donor.

INSTITUTIONAL ACTIVITIES

2023- Member of the Department Quality Assurance Committee

2021- Departmental Research Delegate

2018-2024 Member of the University Research Evaluation Committee (CVR)

2018-2021 Member of the Department Quality Assurance Committee, of the Departmental Executive Board

2017- Institutional representative in RIBES-NEST Scarl, and Board Member in the Directors' Board of the same Scarl

2016-2024 Institutional representative in the INSTM Board (Interuniversity National Consortium for Materials Science and Technology). Board Member in the Directors' Board of the same INSTM.

Member of the Erasmus Commission.

Erasmus Coordinator of exchanges with Elche, Strasbourg, Amiens, Wien universities.

Member of the board in the Pharmacy Courses, in the Chemistry Courses, in the PhD Course in Nanotechnology.

TEACHING ACTIVITIES

2024-25: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Innovative approaches in drug discovery (Course of Pharmaceutical Chemistry and Technology – 12 h) ; Nanomedicine (Nanotechnologies PhD course, 8 h)

2023-24: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Innovative approaches in drug discovery (Course of Pharmaceutical Chemistry and Technology – 12 h) ; Nanomedicine (Nanotechnologies PhD course, 8 h)

2022-23: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Nanomedicine (Nanotechnologies PhD course, 9 h)

2021-22: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Nanomedicine (Nanotechnologies PhD course, 9 h)

2020-21: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Nanomedicine (Nanotechnologies PhD course, 9 h)

2019-20: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Nanomedicine (Nanotechnologies PhD course, 9 h)

2018-19: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Nanomedicine (Nanotechnologies PhD course, 9 h)

2017-18: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Nanomedicine (Nanotechnologies PhD course, 9 h)

2016-17: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h and of Chemistry - 48 h); Nanomedicine with Carbon nanostructures (Nanotechnologies PhD course, 9 h)

2015-16: Medicinal Chemistry (Courses of Pharmaceutical Chemistry and Technology - 64 h, of Pharmacy - 16 h, and of Chemistry – 40 h),

2014-15: Medicinal Chemistry (Course of Pharmaceutical Chemistry and Technology)

2013-14: Medicinal Chemistry (Courses of - Pharmaceutical Chemistry and Technology, and of Chemistry) Carbon Nanostructure Functionalizations (10 h of lessons c/o CNR – Catania)

2012-13: Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry)

2011-12: Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry); Drug Analyses (laboratory) (Faculty of Pharmacy; Course of Pharmaceutical Chemistry and Technology); Carbon Nanostructures (Faculty of Medicine; Course of Medical Biotechnologies).

2010-11: Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry); Drug Analyses (laboratory) (Faculty of Pharmacy; Course of Pharmaceutical Chemistry and Technology); Carbon Nanostructures (Faculty of Medicine; Course of Medical Biotechnologies).

2009-10: Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry).

2008-09: Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry).

2007-08: Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry).

2006-07: Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry).

2005-06: Laboratory of Extraction and Synthesis of drugs (Faculty of Pharmacy; Course of Pharmaceutical Chemistry and Technology); Medicinal Chemistry (Faculty of Mathematical, Physical and Natural Sciences; Course of Chemistry).

2004-05: Laboratory of Extraction and Synthesis of drugs (Faculty of Pharmacy; Course of Pharmaceutical Chemistry and Technology)

2003-04: Laboratory of Extraction and Synthesis of drugs (Faculty of Pharmacy; Course of Pharmaceutical Chemistry and Technology); Design and synthesis of drugs (Module B) (Faculty of Pharmacy; Course of Pharmaceutical Chemistry and Technology)

ORAL COMMUNICATIONS/SEMINARS

Speaker or invited speaker to at least 60 congresses/symposia/schools.

SYMPOSIA ORGANIZATION

Since 2004 co-organizer of the “Carbon Nanostructures in Medicine and Biology” Symposium in the Annual Spring Meeting of The Electrochemical Society (ECS).

Organizer of “The future belongs to supramolecular nanostructured systems” – Trieste, Italy, 2023 October 27.

Co-organizer - 1st STiBnite Network Symposium: Global Challenges in Materials Science – On line event, 2021 March 30.

Co-organizer - School of Nanomedicine – Bari, Italy, 2017 October 11-13; Trieste, Italy, 2019 December 11-13; Roma, Italy, 2022 June 8-10; Firenze, Italy, 2024 October 9-11.

Co-organizer of the “Workshop on Emerging Materials” – Trieste, Italy, 2013 October 11.

Co-organizer of the “Nanomedicine School 2013” – Trieste, Italy, 2013 September 10-11.

Co-organizer - “I giovani e la Chimica in Friuli Venezia Giulia” – Trieste, Italy, 2006 May 5-6.

PUBLICATIONS

Coauthor of 139 papers on international peered journals and 25 books' chapters.

Guest editor of the themed collection “Carbon Nanostructures in Biology and Medicine” J. Mater. Chem. B, **2017**.

Advisory Board Member of the Journal of Materials Chemistry B (RSC)

Advisory Board Member of the Materials Advances (RSC)

BOOKS

Co-editor of “Carbon Nanostructures for Biomedical Applications” - RSC Nanoscience and Nanotechnology -

Eds: T. Da Ros, N. Martin, J.-F. Nierengarten - Royal Society of Chemistry; **2021**. (ISSN: 17577136).

doi: 10.1039/9781839161070-00001.

Co-editor of “Medicinal Chemistry and Pharmacological Potential of Fullerenes and Carbon Nanotubes” – Springer, **2008**