

PERSONAL INFORMATION



Anna Concettina Sparatore

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POSITION Full Professor

WORK EXPERIENCE

- 2002- present: Full Professor of Medicinal Chemistry at University of Milan.
- 1992-2002 Associate Professor of Pharmaceutical Analysis, at the School of Pharmacy of the University of Milan
- 1992 Visiting Scientist, School of Medicine, Stanford University, Stanford - CA, USA
- 1989-1992 Assistant Professor at the School of Pharmacy of the University of Milan.
- 1983-1989 Assistant Professor at the School of Medicine of the University of Genoa.
- 1985-1986 Postdoctoral Fellow, Dept. of Pharmaceutical Chemistry, UCSF, San Francisco, CA, USA.
- 2006-2014 Co-founder of Sulfidris s.r.l. (March 2006 - July 2014), a spinoff of Milan University, cofinanced by MIUR (Project n. 9/5 ex art. 11 DM 8 agosto 2000 n. 593 title of the project: "Screening and preclinical development of anticancer compounds").

EDUCATION AND TRAINING

- 1980 Degree (cum laude) in Pharmacy, University of Genoa
- 1979 Degree (cum laude) in Pharmaceutical Chemistry and Technology, University of Genoa.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	SELF-EVALUATION				
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	B2	B2	C1

Communication skills Good communication skills gained through my long experience in didactic activity. Starting from a.a. 1992/93, I am teaching different curricular courses in Chemistry and Pharmaceutical Technology, Pharmaceutical Biotechnologies, Biotechnology, Pharmacy, Sciences and safety chemical-toxicological of the environment, Hospital Pharmacy

Organisational / managerial skills Reference tutor of 45 undergraduated students and of 4 Ph.D students for the realization of their experimental thesis and coordinator of the research of 8 multiannual postdoc fellows. Scientific responsible of several projects financed by the State University of Milan and participants to several projects cofinanced by the Ministry of University and Scientific Research (MIUR) and by European Community (2005-2009: Participation at the Integrated Project, Contract UE 018834, "Development of New Drugs for the Treatment of Malaria" (ANTIMAL)). Co-founder of Sulfidris s.r.l. (March 2006 - July 2014), a spinoff of Milan University, cofinanced by MIUR (Project n. 9/5 ex art. 11 DM 8 agosto 2000 n. 593; title of the project: "Screening and preclinical development of anticancer compounds"). The activities of Sulfidris were focused on research and development (in collaboration with several national and international research groups and mainly with National Cancer Institute, NCI, USA) of new hydrogen sulfide (H₂S)-donating products, acting as multitarget drugs for cancer prevention and treatment. Sulfidris activity lead to the filling of 5 patent applications.

Job-related skills She has 38 years of experience in drug design and chemical synthesis in medicinal chemistry. Her scientific activity firstly focused on the synthesis of benzazole derivatives and on structural modification of quinolizidine alkaloids, with the aim to improve their pharmacological activities and obtaining new compounds endowed with interesting activities in different pharmacological fields, including antimalarial and anticancer agents. Recently her activity has been focused on the chemical insertion of an H₂S-donating moiety into established known drugs resulting in new chemical entities with significant improvement of activity and/or safety. In vivo the new chemical entity releases the parent compound which acts according to its own characteristics, while the slowly released H₂S is able to improve the red-ox balance of cells and to modulate transcription factors activities, leading to selective anti-proliferative activity in tumor cells and cytoprotective effect in non-cancerous tissue.

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Basic user	Independent user	Independent user	Basic user	Basic user

▪ good command of office suite (word processor, presentation software)

Driving licence B

ADDITIONAL INFORMATION



Publications

- Most significant publications (total publications:110)

Li L, Rossoni G, Sparatore A, Lee LC, Del Soldato P, Moore PK. Anti-inflammatory and gastrointestinal effects of a novel diclofenac derivative. *Free Radic Biol Med.* 2007 Mar 1;42(5):706-19.

Sparatore A, Basilico N, Casagrande M, Parapini S, Taramelli D, Brun R, Wittlin S, Sparatore F. Antimalarial activity of novel pyrrolizidinyl derivatives of 4-aminoquinoline. *Bioorg.Med.Chem.Lett.* 2008 Jul 1;18(13):3737-40.

Sparatore A, Perrino E, Tazzari V, Giustarini D, Rossi R, Rossoni G, Erdmann K, Schröder H, Del Soldato P. Pharmacological profile of a novel H₂S-releasing aspirin *Free Radic Biol Med.* 2009, 46, 586-592.

Lee M, Tazzari V, Giustarini D, Rossi R, Sparatore A, Del Soldato P, McGeer E, McGeer PL. Effects of hydrogen sulfide-releasing L-DOPA derivatives on glial activation: potential for treating Parkinson disease. *J Biol Chem.* 2010 Jun 4;285(23):17318-28.

Barteselli A, Casagrande M, Basilico N, Parapini S, Rusconi CM, Tonelli M, Boido V, Taramelli D, Sparatore F, Sparatore A. Clofazimine analogs with antileishmanial and antiplasmodial activity. *Bioorg Med Chem.* 2015 Jan 1;23(1):55-65.

Gabriele E, Ricci C, Meneghetti F, Ferri N, Asai A, Sparatore A. Methanethiosulfonate derivatives as ligands of the STAT3-SH2 domain. *J Enzyme Inhib Med Chem.* 2017 Dec;32(1):337-344. doi: 10.1080/14756366.2016.1252757.

Giustarini D, Tazzari V, Bassanini I, Rossi R, Sparatore A. The new H₂S-releasing compound ACS94 exerts protective effects through the modulation of thiol homeostasis. *J Enzyme Inhib Med Chem.* 2018 Dec;33(1):1392-1404.

- For the complete list of the publications see AIR: <https://air.unimi.it/>

ANNEXES

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Milan, December 5th 2018

Signature