

PERSONAL INFORMATION

Sandro Sonnino

Date of birth: September 5th, 1949, Milan, Italy.

Place of work: Department of Medical Biotechnology and Translational
Medicine

University of Milan

Via Fratelli Cervi 93, 20090 Segrate (Mi), Italy

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Sandro.Sonnino@unimi.it

Academic title:

1990-, Full Professor of Biochemistry, School of Medicine, University
of Milan.

Academic roles:

Director of the PhD in Biomedical Sciences

Responsible of the Radiochemical Laboratories of LITA-Segrate

Past academic titles:

1982-1990, Associate Professor of Biochemistry, School of Medicine,
University of Milan.

1974-1982, Assistant of Biochemistry, School of Medicine, University
of Milan.

Past academic roles:

Coordinator of the Interdisciplinary Laboratory of Advanced Technology
of the University of Milan in Segrate (LITA-Segrate)

President of the Bachelor degree in Dietistic

Director of the Department of Medical Chemistry, Biochemistry and
Biotechnology

Responsible of the Biochemistry Unit of the Center of Excellence on
Neurodegenerative Diseases of the University of Milan

Director of the PhD School in Biochemical, Nutritional and Metabolic
Sciences

Director of the MD/PhD in Biomedical Sciences

WORK EXPERIENCE

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His scientific research has been particularly directed towards the understanding of the relationships between the structure and function of complex lipid components of neuron cell membranes, and the role of plasma membranes in neuronal degeneration and cancer. In particular, using normal and pathological tissues/cells he studied -the primary structure of isolated gangliosides and glycosphingolipids, -the conformational, dynamic, geometrical and aggregative properties of the main gangliosides from nervous system, -the role of gangliosides in the organization of sphingolipid-enriched membrane domains, -the interaction processes between gangliosides and soluble or membrane proteins, -the metabolism of gangliosides, -the role of gangliosides in cell signalling, and -the role of plasma membrane glycohydrolases in modulating cell physiology.

The scientific activity is documented by 296 publications, for a total I.F of over 1000, over 9000 citations and Hi of 53 (Scopus).

Secretary of the International Glycoconjugate Organization, 2007-2017.

Italian representative in the International Glycoconjugate Organization, 2007-.

President Elect of the International Glycoconjugate Organization, 2017-2019.

Member of the editorial board of Neurochemical Research, of FEBS Letters, of FEBS OpenBio and of Metabolic Brain Disease

Editor-in-Chief of Glycoconjugate Journal, 2018-

Past member of the editorial board of Journal of Neurochemistry

Guest Editor of the special issue n°17 of Glycoconjugate Journal on "Glycosphingolipids and membrane domains."

Guest Editor of the special issue n°27 of Neurochemical Research on "Sphingolipids".

Member of the review panel for the 2003 and 2006 grant application presented to the Deutsche Forschungsgemeinschaft for the Transregional Collaborative Research Centre "Membrane Microdomains and Their Role in Human Disease".

Chair person of the following scientific international meetings:

Satellite meeting of XVIII Glycoconjugate Symposium. Glycobiology of lipid membrane domains: from membrane organization to biological function, Siena, Italy, 2005

4th ISN Special Neurochemistry Conference "Membrane Domains in CNS physiology and pathology", May 22-26, 2010, Erice (Trapani), Sicily, Italy

Sialoglyco 2010 international symposium, Postdam, Germany.

1st International Conference on the Glycobiology of Nervous System: from the Genome Research Era to the Glycome. September 2nd-5th, 2017, Seoul, Korea.

Permanent member (from 1999) of the executive committee of International Conference on the Eukaryotic Cell Surface Macromolecules, and (from 1994) of the the executive committee of Sialoglycoscience International Conference.

EDUCATION AND TRAINING

Full Professor of Biochemistry from 1990, Italian scientific group: SSD Biochimica - BIO10
 Master in Science in Chemistry, 1973. University of Milan. Italy.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	good	good	good	good	good

Driving licence Italian category: B

ADDITIONAL INFORMATION

309 Chiricozzi E, Maggion M, Di Biase E, Lunghi G, Fazzari M, Loberto N, Elisa M, Grassi Scalvini F, Tedeschi G and Sonnino S (2019) J. Neurochem. submitted
Curriculum Vitae Replace with First name(s) Surname(s)

308 Grassi S, Giussani P, Prioni S; Button D; Cao J; Hakimi I; Sarmiere P; Srinivas M; Cabitta L; Sonnino S; Prinetti A, (2018) Human remyelination promoting antibodies stimulates astrocytes proliferation through modulation of the sphingolipid rheostat in primary rat mixed glial cultures. Neurochem. Res under revision

307 Sonnino S. (2018). New Horizons in Glycobiology Research FEB S Letters DOI: 10.1002/1873-3468.13300

306 Malekkou A, Samarani M, Drousiotou A, Votsi C, Sonnino S, Pantzaris M, Chiricozzi E, Zamba-Papanicolaou E, Aureli M, Loberto N, Christodoulou K (2018) Biochemical characterization of the GBA2 c.1780G>C missense mutation in lymphoblastoid cells from patients with spastic ataxia. Int. J. Mol. Sci. 2018, 19, 3099; doi:10.3390/ijms19103099.

305 Grassi S, Chiricozzi E, Mauri L, Sonnino S and Prinetti A. (2018) Sphingolipid and neuronal degeneration in lysosomal storage disorders. J. Neurochem DOI: 10.1111/JNC.14540

304 Sonnino S, Chiricozzi E, Grassi S, Mauri L and Prinetti A. (2018) Gangliosides in membrane organization. Prog Mol Biol Transl Sci.156:83-120.

303 Samarani M, Loberto N, Soldà G, Straniero L, Asselta R, Duga S, Lunghi G, Zucca FA, Mauri L, Ciampa MG, Schiumarini D, Bassi R, Giussani P, Chiricozzi E, Prinetti A, Aureli M and Sonnino S (2018) A lysosome-plasma membrane-sphingolipid axis linking lysosomal storage to cell growth arrest FASEB Journal DOI: 10.1096/fj.201701512RR

302 Mauri L, Sonnino S and Prinetti A (2018) Chemical and physicochemical properties of gangliosides. Methods Mol Biol. 2018;1804:1-17. doi: 10.1007/978-1-4939-8552-4_1

301 Mauri L, Ciampa MG and Sonnino S (2018) Radioactive gangliosides for biological studies. Methods Mol Biol. 2018;1804:311-322. doi: 10.1007/978-1-4939-8552-4_15.

300 Acquotti D and Sonnino S (2018) Nuclear magnetic resonance of gangliosides. Methods Mol Biol. 2018;1804:241-284. doi: 10.1007/978-1-4939-8552-4_12.

299 Murdica V, Mancini G, Loberto N, Bassi R, Giussani P, Di Muzio N, Deantoni C, Prinetti A, Aureli M and Sonnino S (2018) Abiraterone and ionizing radiation alter the sphingolipid homeostasis in prostate cancer cells. Adv Exptl Med Biol, in press

298 Chiricozzi E, Mauri L, Ciampa MG, Prinetti A and Sonnino S (2018) On the use of Cholera Toxin. Glycoconjugate Journal 35:161-163.

297 Chai W, Zhang Y, Mauri L, CiampaMG, Mulloy B, Sonnino S, Feizi T (2018) Assignment by negative-ion electrospray tandem mass spectrometry of the tetrasaccharide backbones of monosialylated glycans released from bovine brain gangliosides. Journal of The American Society for Mass Spectrometry DOI: 10.1007/s13361-018-
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Patents **2** Sonnino S e Chiricozzi E (2018) Oligosaccaridi per l'uso nel trattamento della malattia di Parkinson.

1 Kirschner G. and Sonnino S. (2000) Process for the preparation of ganglioside GM3 by acid hydrolysis of ganglioside nesters and its use in the pharmaceutical field, *World Intellectual Property organization International Bureau, International application published under the patent cooperation treaty (PCT)*.

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".

Date: November 23rd, 2018

Signature

