

CURRICULUM VITAE (Jan. 2014)

Paolo Sarti, 17.02.1948, Italian.

Medical Doctor in 1972 *cum laude*, at Sapienza University of Rome (SUR)

MD Specialties: Gastroenterology (1974) - Anatomy - Isthopathology (1976) and Pathology (1977).

Languages

English good – French fair

Societies

Italian Society of Biochemistry - Biophysics and Biological Chemistry -

Italian Group of Bioenergetics (*Managing Board*) –

NY Academy of Science

Academic Appointments (selection, Rome Sapienza)

1996 - *present* Full Professor of Chemistry & Biochemistry (Faculty of Medicine).

2011 – *present* Full Professor of Chemistry & Biochemistry (International Medical School – Sapienza Uni.)

2003 – 2012 Director/Coordinator of the PhD in Biochemistry.

2006 – 2010 International Affairs Delegate – 2nd Faculty of Medicine.

2000 – *present* Sci. Resp. of ERASMUS Program, Faculty of Medicine and Psychology.

Professional (selection)

Since 1998 Scientific Coordinator (Rome) (PRIN-MIUR) Res. Project on “Oxidases & Bioenergetics”.

2000 Member of the European panel “5th Frame Project” Biotechnology

2002 - 2007 Managing Editor – The Italian Journal of Biochemistry.

2003 - *present* Member of the Referee Panel for National Projects (PRIN-MIUR).

2003 - 2006 Scientific Coordinator of the National Project “NO in the bioenergetics of excitable tissues” “FIRB RBAU01F2BJ”.

Scientific Activity & Interests

Main (*actual*) interests: *Cell bioenergetics. Respiratory complexes, electron transfer reactions. Radical chemistry, nitroxidative signalling and stress. Molecular parasitology.*

Collaborations (representative selection)

Within these collaborations there have been over the years many exchange visits.

Prof. T.J. Blanck (Johns Hopkins University, Baltimore USA, 1989/1990 ; Cornell University, Medical School, New York, N.Y. 1992/99, New York University, New York, N.Y. USA 2000/**a oggi**).

Prof. Michael T.Wilson (Colchester, UK- 1980/**a oggi**). University of Essex Chemistry Dept.).

Prof. Alexander Konstantinov (Univ. di Mosca, Russia 2003 **a oggi**).

Dr. Vitalyi Borisov (Università di Mosca, Russia 2003 **a oggi**).

Prof. Bernd Ludwig (Frankfurt University, GER, 2000 **a oggi**).

Prof. Miguel Teixeira (Univ. Oeiras, Portugal 2003 **a oggi**).

Dr. Gottfried Stubauer (Innsbruck University, AU, 1998/1999).

Awards & Honors

1993 Visiting Professor - Cornell University, NY USA

2005 Visiting Professor - NYU, NY USA

2009 Adjunct Professor - NYU, NY USA

2010 Research Professor - NYU, NY USA

2010 Invited guest - Dean’s Honors Day - NYU, NY USA

Paolo Sarti has attended, as participant as well as invited speaker, numerous International/National Congresses; over 150 Communications have been published as Abstracts & Proceedings.

Publications total 193 (Google Scholar)

Google Scholar (Jan. 2014)	Tutte	Dal 2009
Citazioni	3173	1019
Indice H	31	17
i10-index	79	38

Indici citazioni

ELENCO PUBBLICAZIONI (dal 2011)

.1 O₂-Dependent Efficacy of Novel Piperidine/Piperazine-Based Chalcones against the Human Parasite *Giardia intestinalis*"

V.Bahadur, D.Mastronicola, H.K.Tiwari, Y.Kumar, M.Falabella, L.P.Pucillo, P.Sarti, A.Giuffrè, B.K.Singh

Antimicrob Agents Chemother, (2014), 58:543-9.

.2"Functional Characterization of Peroxiredoxins from the Human Protozoan Parasite *Giardia intestinalis*"

D.Mastronicola, M.Falabella, F.Testa, L.P.Pucillo, M.Teixeira, P.Sarti, L.M. Saraiva and A.Giuffrè

PloS Negl Trop Dis, (2014), 8: 1-10.

.3 "New Evidence for Cross Talk between Melatonin and Mitochondria Mediated by a Circadian-Compatible Interaction with Nitric Oxide.

P.Sarti, M.C.Magnifico, F.Altieri, D.Mastronicola, M. Arese

Int J Mol Sci. (2013), 14(6):11259-76.

.4 "Cytochrome *bd* Oxidase and Hydrogen Peroxide Resistance in *Mycobacterium tuberculosis*"

E.Forte, V.B. Borisov, A.Davletshin, D.Mastronicola, P.Sarti, A.Giuffrè

mBio (2013) 4(6):e01006-13. doi:10.1128/mBio.01006-13.

.5 "Characterization of Mitochondrial Dysfunctions in the 7PA2 Cell Model of A.D."

N.Krako, M.C.Magnifico, M.Arese, G.Meli, E.Forte, A.Lecci, A.Manca, A.Giuffrè, D.Mastronicola, P.Sarti and A.Cattaneo

J. Alzheimers Dis. (2013), 37, 747-758.

.6 "Nitric Oxide in Human Health and Disease" P.Sarti (April 2013)

eLS.J.Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0003390.pub2

.7 Functional Dissection of the Multi-Domain Di-Heme Cytochrome c550 from *Thermus thermophilus*.

Robin S, Arese M, Forte E, Sarti P, Kolaj-Robin O, et al. (2013) Functional Dissection of the Multi-Domain Di-Heme Cytochrome c550 from *Thermus thermophilus*.

PLoS ONE 8(1): e55129. doi:10.1371/journal.pone.0055129.

.8 Cytochrome *bd* oxidase from *Escherichia coli* displays high catalase activity: An additional defense against oxidative stress. Vitaliy B. Borisov, Elena Forte, Albert Davlethsin, Daniela Mastronicola, Paolo Sarti Alessandro Giuffrè. (2013)

FEBS Letters 587: 2214-2218.

.9 The Chemical Interplay between Nitric Oxide and Mitochondrial Cytochrome *c* Oxidase: *Reactions, Effectors and Pathophysiology*.

Sarti P, Forte E, Giuffrè A, Mastronicola D, Magnifico MC, Arese M.(2012)

Int J Cell Biol.;2012:571067. doi: 10.1155/2012/571067. Epub 2012 Jul 1

.10 Cytochrome *c* Oxidase and Nitric Oxide in action: Molecular Mechanisms and Pathophysiological Implications

Paolo Sarti, Elena Forte, Daniela Mastronicola, Alessandro Giuffrè, Marzia Arese (2012)

Biochim. Biophys. Acta 1817:610-619 .

.11 Nanomolar Melatonin Enhances nNOS Expression and Controls HaCaT-cells

Bioenergetics. M. Arese, M. C. Magnifico, D. Mastronicola, F. Altieri, C. Grillo , T. J. J. Blanck, and P. Sarti (2012)

IUBMB Life 64:251-8 .

.12 Mitochondria and Nitric Oxide: Chemistry and Pathophysiology.

Paolo Sarti, Marzia Arese, Elena Forte, Alessandro Giuffrè, Daniela Mastronicola (2012)

Advances in Experimental Medicine and Biology 942:75-92

.13 The superoxide reductase from the early diverging eukaryote *Giardia intestinalis*.

Testa F, Mastronicola D, Cabelli DE, Bordi E, Pucillo LP, Sarti P, Saraiva LM, Giuffrè A, Teixeira M. (2011)

Free Rad. Biol. Med. 15:1567-74. Epub 2011.

.14 Cytochrome *bd* oxidase and nitric oxide:from reaction mechanisms to bacterial physiology. Alessandro Giuffrè, Vitaliy B. Borisov, Daniela Mastronicola, Paolo Sarti and Elena Forte (2012)

FEBS Lett 586: 622-629. review

.15 A sulfite respiration pathway from *Thermus Thermophilus* and the key role of a newly identified Cytochrome *c* (2011) Sylvain Robin, Marzia Arese, Elena Forte, Paolo Sarti, Alessandro Giuffrè, Tewfik Soulimane. **J. of Bacteriology** 193:3988-97

.16 Enzymatic detoxification of O₂ and NO in the human parasite *Giardia intestinalis*: a minireview. Fabrizio Testa, A Giuffrè, Daniela Mastronicola, Elena Forte & Paolo Sarti (2011)

Indian J. of Biotechnology 10:404-409.

.17 Catalytic Intermediates of Cytochrome *bd* Terminal Oxidase at Steady-state: Ferryl and Oxyferrous Species Dominate. Vitaliy Borisov, Elena Forte, Paolo Sarti and Alessandro Giuffrè. (2011) **Biochim. Biophys. Acta** (Bioenergetics)1807:503-9

.18 *Giardia intestinalis* Escapes Oxidative Stress by Colonizing the Small Intestine: A Molecular Hypothesis. Daniela Mastronicola, Alessandro Giuffrè, Fabrizio Testa, Antonella Mura, Elena Forte, Eugenio Bordi, Leopoldo Paolo Pucillo, Pier Luigi Fiori and Paolo Sarti. (2011)

IUBMB Life 63: 21 -25.