

ALL. B FOR PUBLICATION

Procedura valutativa di chiamata per n. 1 posto di Professore di ruolo di II fascia presso il Dipartimento di Scienze Biochimiche "A. Rossi Fanelli" – Facoltà di Farmacia e Medicina. CODICE CONCORSO 2021PAR002

Decreto Rettore Università di Roma "La Sapienza" n. 412/2021 del 9/02/2021

MARZIA ARESE Curriculum Vitae

Part I – General Information

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Part II – Education

Type	Year	Institution	Notes
University graduation	1994	Sapienza University, Mat. Phys. and Nat. Sciences Faculty	110/110 with honours (Molecular Biology)
PhD	1999	Sapienza University, Faculty of Medicine	PhD in Biochemistry

Part III a – Academic Appointments

Start	End	Institution	Position
2001	Position actually held	Sapienza University, Faculty of Pharmacy and Medicine	Researcher (confirmed, open-ended)

III b – Other Appointments

a.a.

2018	"Abilitazione Scientifica Nazionale" for Associate Professor (II fascia) Sector 05/E1 - Biochimica generale (28/03/2018).
2017-2018	Member of Academic board for PhD in Biochemistry, Sapienza University

Part IV – Teaching experience

Year	Institution	Lecture/Course
Since a.a. 2001/2002	Sapienza University, Faculty of Medicine and Psychology, CL Nursing science	- Lecturer in Biochemistry, in the Integrated Course “Basi morfologiche e funzionali della cellula” 1047950 (2 CFU of 6), held in S.Andrea hospital, Rome (merged with the Nursing course from S. Pietro Hospital, Rome)
Since a.a. 2007/2008	Sapienza University, Faculty of Medicine and Psychology, CL Nursing science	- Lecturer in Biochemistry, in the Integrated Course “Basi morfologiche e funzionali della cellula (BMFC)” (2 CFU of 6), “Basi morfologiche e funzionali della cellula”, 1047950 held in ASL Roma 3, Ostia, Rome - Coordinator for the BMFC integrated course
Since a.a. 2001/2002	Sapienza University, Faculty of Medicine and Psychology CL Obstetrician science	- Lecturer in Biochemistry, in the Course “Basi morfologiche e funzionali della cellula”, 1055849 (held in S. Andrea hospital, Rome) (2 CFU of 6)
Since a.a. 2001/2002	Sapienza University, Faculty of Medicine and Psychology	- Lecturer in the course “Chimica e propedeutica Biochimica” 97898 (held in S. Andrea hospital, Rome) (3 CFU of 8)
Since a.a. 2017-2018	Sapienza University, Faculty of Pharmacy and Medicine	- Coordinator for the integrated course “Basi Molecolari e Cellulari della Vita” 1034944 - CL Nursing Science X (tele-didactics) in cooperation with Unitelma (2 CFU of 6)

Part V - Society memberships

Scientific Society

SIB	Società Italiana di Biochimica e Biologia molecolare
GIBB	Gruppo Italiano di Bioenergetica e Biomembrane

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Part VI a - grants as PI-principal investigator

Year	Program	Title	Grant value
2018	Sapienza- Finanziamento di Ateneo Visiting Professor 2019. PI	“Deepening the mechanisms of oxidised lipoproteins (VLDL) -mediated reprogramming of endothelial cells by activation of inflammatory pathways.” Benefit to Prof. Graciela C. Calabrese, Università di Buenos Aires, Argentina.	€ 4.500
2017	Sapienza- Ricerca di Ateneo; progetti piccoli. PI	"Uncoupling the NO signaling: patho-physiological relevance of nitric oxide synthase activity" Cod. RP11715C819AF6BA	€ 3.000
2008	Sapienza- Ricerche di Ateneo Federato (Facoltà) di Scienze delle Politiche Pubbliche e	"Energetica mitocondriale e specie reattive dell'azoto e dell'ossigeno"; cod. C26F08J22J	€ 2.000

	Sanitarie SPPS. PI		
2007	Sapienza- Ricerche di Ateneo Federato (Facoltà) di Scienze delle Politiche Pubbliche e Sanitarie SPPS. PI	"Energetica mitocondriale e specie reattive dell'azoto e dell'ossigeno"; cod. C26F07MAEA	€ 2.000
2002	Sapienza- Finanziamento Murst "Progetto Giovani Ricercatori" Anno 2002. PI	"Studio della modulazione funzionale indotta nei complessi enzimatici mitocondriali in seguito all'azione del monossido di azoto (NO), in condizioni fisiologiche ed in alcune malattie mitocondriali".	€ 6.500
2000	Sapienza- Finanziamento Murst "Progetto Giovani Ricercatori" Anno 2000. PI	"Espressione eterologa della Nitrito Reduttasi di <i>P. aeruginosa</i> in un batterio denitrificante non patogeno ed analisi in vivo dell'attività dell'enzima wt e di mutanti sito-specifici con alterazioni funzionali".	L.10.000

Part VI b - grants as I- investigator (last 10 years)

Year	Program	Title
2020	Sapienza - Ricerca di Ateneo; progetti medi. RM120172A76E4B78 (sci. coord. Roberto Contestabile)	Studies on the role of pyridoxine 5'-phosphate oxiasse in vitamin B6 homeostasis
2020	AIRC Investigation Grant 2019 – 2024 Cod. 24IG23125 (sci. coord. Francesca Cutruzzolà)	Dissecting Serine Hydroxymethyltransferase functions to target lung cancer metabolic reprogramming
2019	Sapienza - Ricerca di Ateneo; progetti medi. RM11916B51484C08 (sci. coord. Roberto Contestabile)	Role and mechanism of action of the human pyridoxal 5'-phosphate-binding protein (PLP-BP) in vitamin B6 metabolism. Molecular basis of PLP-BP-dependent epilepsy
2018	Sapienza - Ricerca di Ateneo; progetti grandi. cod: RG11816430AF48E1 (sci. coord. Francesca Cutruzzolà)	Dissecting Serine Hydroxymethyltransferase functions to target cancer metabolic reprogramming
2017	PRIN code n. 20158E2CM_003 (sci. coord. Andrea Urbani)	Hydrogen sulphide as a new player of Amyotrophic Lateral Sclerosis: focus on mitochondrial homeostasis endogenously activated.
2016	Sapienza - Ricerca di Ateneo; progetti medi. RM116154C3FE936E (sci.coord. Paolo Sarti)	The interplay between cell bioenergetics and Nitric Oxide Synthase, endogenously/exogenously activated.
2015	Ricerche UNIVERSITARIE della Sapienza anno 2015 Code n. C26A1522Y7, (sci. coord. Paolo Sarti) 01-01-2015	Mitochondria, cell signaling and gasotransmitters
2014	Ricerche UNIVERSITARIE della Sapienza, anno 2014 code n. C26A145CC2, Responsabile (sci. coord. Paolo Sarti) 01-01-2014	The Nitro-Oxidative Redox Stress of Mitochondria in Neurodegenerative Disorders, Age and Cancer
2014	Grant from Regione Lazio: Prot. FILAS-RU- 2014 – 1020, SSD BIO/10 (sci. coord. Paolo Sarti) 05-10-2015	Progetto Piattaforma di sistemi cellulari eucarioti per l'espressione di proteine eterologhe e per screening tossicologico di interferenti alimentari microambientali e bioattivi
2013	Ricerche UNIVERSITARIE Sapienza 2013, code n. C26A139XEE, Responsabile Scientifico del (sci. coord. Fabio Altieri) 01-01-2013	Fisiopatologia dello stress ossi-nitrosativo: dai percorsi metabolici e regolativi allo sviluppo di terapie

2012	Ricerche UNIVERSITARIE della Sapienza, anno 2012. code n. C26A12AEWC; (sci. Coord. Elena Forte) 01-01-2012.	Redox pathways and oxi-nitrosative stress
2011	PRIN 2011 da titolo: (sci. coord. BERNARDI Paolo) code n. 20107Z8XBW_005 01-01-2011 - 01-01-2013	Meccanismi mitocondriali della cancerogenesi

Part VII – Research Activities

VII a – Research areas and topics

Keywords	Brief Description
- Nitric oxide metabolism	<p>The study of the biochemical aspects of cellular processes has included the following areas:</p> <p>- Investigation of the molecular basis of mitochondrial activity, of its physiological modulation and altered function as consequence of pathology onset.</p> <p>The parameter related to cellular energetics are studied and characterized, such as: Oxygen consumption, ATP production and evaluation of the Mitochondrial Membrane Potential, using cytofluorimetric, spectroscopic, fluorimetric and oxygraphic techniques.</p> <p>- Detection of specific markers involved in cell redox homeostasis, such as: Reactive Oxygen and Nitrogen species (ROS, peroxyxynitrite), reduced and oxidized glutathione, Nitrotyrosine modifications; evaluation of altered production of OS markers due to antioxidant / pro-oxidant compounds, among which melatonin, oxydised VLDL, or chemicals belonging to the endocrine disruptants (ED) class, known as environmental pollutants (octylphenol, nonylphenol).</p> <p>- Biochemical analysis of key factors involved in stress response, particularly related to the Nitric oxide (NO) signaling, through the evaluation of mRNA and protein expression, especially of the Nitric Oxide Synthases enzyme isoforms (e/n/iNOS) and its post-transcriptional modifications.</p> <p>Involvement of the NO activation axis in the onset and progression of pathological states linked to oxidative stress and inflammation (neurodegeneration, cardiovascular disease, cancer).</p>
- Mitochondrial function	
- Bioenergetics	
- Oxidative stress	

VII b – Oral presentation to scientific conferences /meetings /workshops

Year	meeting	Title
2018	Workshop: Modulation of oxidative stress: physiological and pharmacological aspects, Rome 12/6/2018	<i>"The involvement of Nitric Oxide Synthases regulation in cell nitro-oxidative stress"</i>
2014	Scientific Conference EBEC Lisbon (PT), 19-07-2014	<i>"Involvement of nitric oxide in bioenergetics: the Alzheimer's disease and the circadian rhythms"</i>
2012	56° National Meeting of the Italian Society of Biochemistry and Molecular Biology, Chieti 26-29/ 9 / 2012	<i>"Melatonin modulates mitochondrial function in HaCaT cells via nitric oxide production"</i>
2012	The 7th International Conference on the Biology, Chemistry and Therapeutic Application of Nitric Oxide,	<i>"NO-mediated modulation of mitochondrial energy production by melatonin"</i>

	Edinburgh (GB) 26-29 /07/2012	
2011	Gruppo Italiano di Bioenergetica e Biomembrane GIBB 2011, presso: Sapienza Università di Roma. 24-05-2011 al 27-05-2011	<i>"NO-signaling in mitochondria: physiological and pathological pathways"</i>

VII c – Research activity carried out abroad

Year	Description
1997	Working on the Purification and characterization of the denitrification enzyme Nitrite Reductase from <i>Pseudomonas aeruginosa</i> , in the Laboratory of Prof. Colin Greenwood, School of Biological Science, University of East Anglia, Norwich, UK 30/09/1997 to 11/10 /1997

VII d – Organization of conferences / meetings / webinars

Year	Conference
2021	Member of the organizing board for the REDOX WEBINAR SERIES on: “Oxidative stress: Biochemical and pharmacological aspects” web site: antiox.it . Monthly appointments started on 11/02/2021
2015	Member of the organizing board of the International Scientific Conference: "Biochemistry, Physiology and Pharmacology of Oxidative Stress", Sapienza University of Rome from 02-07-2015 to 04-07-2015
2011	Member of the organizing board for the scientific meeting: “Gruppo Italiano di Bioenergetica e Biomembrane” GIBB 2011, held in Sapienza University of Rome from 24-05-2011 to 27-05-2011

VII e – Supervision of Graduation / PhD Thesis

Year	
2021	Supervisor of the research activity and thesis for the Degree in “Chimica e tecnologia farmaceutiche” (Laurea), student BENEDETTA SPROVERA. Title of the thesis: “Stress nitro-ossidativo indotto dagli inquinanti ambientali Bisfenolo A e Acido perfluoroottanoico in linee cellulari umane” Sapienza University of Rome, 10/ 01/2020 – 22/01/2021.
2019	External research tutor for PhD Program in Biomedical Sciences and Biotechnology (XXXII Cycle) student Benedetta Magnesa, University of Udine. External evaluator for the PhD thesis titled “Mitochondrial oxidative phosphorylation plasticity in two models: obese subjects after exercise training and healthy subjects after bed rest” by Benedetta Magnesa; Supervisor Prof. Bruno Grassi University of Udine.
2019	Supervisor of the research activity and thesis for the Degree in Pharmacy (Laurea), student GIORGIA ABBALLE. Title of the thesis: "Risposta cellulare allo stress ossidativo mediata da inquinanti ambientali emergenti". - Sapienza University of Rome, 01/05/2018 – 20/03/2019.
2017	Research supervisor and Thesis Co-supervisor for the Degree in Biochemistry (ERASMUS +), student MILICA POPOV, from University of Novi Sad, Serbia, in cooperation with Sapienza University. English Title of the thesis: "Identification of the NOS(s) structural and functional changes induced by the xenoestrogen nonilphenol in hepatocytes". Italian Mentor Paolo Sarti. Serbian Mentor Prof. Natasa Simin. 20/02/2017 – 31/07/2017.

2017	Research supervisor and Thesis Co-relator for the PhD in Biochemistry Dr. MARLA XHANI, XXX° course, Sapienza University of Rome, 2014-2017. Title of the thesis: "Cellular redox homeostasis and environmental toxicity"; Supervisor Prof. Paolo Sarti; Coordinator Prof. Prof. Francesco Malatesta. 01-11-2014 - 01-11-2017.
2017	Research supervisor and Thesis Co-relator for the Degree in Pharmaceutical Biotechnology of the Student AZZURRA MOLLO (Corso di Laurea Magistrale in Biotecnologie Farmaceutiche), Sapienza University of Rome. Title of the thesis: "Very Low Density Lipoprotein (VLDL) e regolazione del segnale nitrossidativo del monossido d'azoto (NO) in un sistema modello di endotelio vascolare". Supervisor Prof. Paolo Sarti. 01-02-2016 - 20-07-2017.
2017	Research supervisor and Thesis Co-relator for the Degree in Biotechnology, student name: SCIROCCHI FABIO (Laurea triennale in Biotecnologie), Sapienza University of Rome. Title: "Ruolo degli xenoestrogeni nella regolazione dell'espressione genica di fattori coinvolti nello stress nitro-ossidativo". Supervisor Prof. Paolo Sarti 01-02-2017 - 17-07-2017
2016	Research Co-supervisor of the Degree of YASMINE GROOTEN (ERASMUS +), Faculties Geneeskunde en Farmacie, Vrije Universities Brussel, in association with Sapienza University. Title of the Thesis: "VLDL and endothelial nitric oxide: from physiology to debut in pathology". Italian Mentor: Prof. Paolo Sarti; Academic Belgian Mentor: Prof Debby Mangelings. 22-02-2016 - 16-05-2016

VII f – Other management activities, assigned by Sapienza or other Universities.

Year

2021	Elected member of the evaluation committee for the assignment of a 1year research grant (cat. B type II), SSD BIO 10, prot. N. 1815/2020, Dep. Biochemical Science "A. Rossi Fanelli", Sapienza University
2017	Elected member of the evaluation committee for the assignment of a 1year research grant (cat. B type II), SSD BIO 10, prot. N. 575/2017, Dep. Biochemical Science "A. Rossi Fanelli", Sapienza University
2014	Elected member of the evaluation committee for the assignment of a 1year research grant (cat. B type II), SSD BIO 10, PRIN 20107Z8XBW_005 – D. M. Prot. 507/Ric. del 15.11.2012 funded by MIUR
2010 -2015	"Presidente d'aula" at the procedure of the admission tests for the course: Laurea Magistrale in Medicina e Chirurgia, Faculty of Medicina e Psicologia – Sapienza
2004 -2009	"Responsabile d'aula" at the procedure of the admission tests for the course: Laurea Magistrale in Medicina e Chirurgia, Faculty of Medicina e Psicologia – Sapienza
2007	Elected member of the evaluation Committee for the assignment of a permanent researcher position (S.S.D. BIO / 10) at University of L' Aquila.

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers (international)	38	Scopus /IRIS	1994	2018
Books (scientific)	1	IRIS	2011	

Total Impact factor (IF)	138,9
Avarage IF *	3,65
Total Citations	1060
Average Citations per Product	27,89
Hirsch (H) index	20
Normalized H index**	0,74

*over total publ. from *SCOPUS*

**H index divided by the academic seniority.

Part IX– Selected Publications (included publications of the last 5 years)

List of selected publications for the evaluation cod. 2021PAR002.

(peer reviewed, IF from *InCites /JCR*; Citations from *SCOPUS*)

#	Authors, Title, reference	IF	CITATIONS
1	Magnifico MC, Xhani M, Popov M, Saso L, Sarti P, Arese M . <i>Nonylphenol and Octylphenol Differently Affect Cell Redox Balance by Modulating the Nitric Oxide Signaling.</i> Oxid Med Cell Longev. 2018:1684827 ID 1684827, 2018. DOI:10.1155/2018/1684827	4.9	5
2	Berry A, Bellisario V, Panetta P, Raggi C, Magnifico MC, Arese M , Cirulli F. <i>Administration of the Antioxidant N-Acetyl-Cysteine in Pregnant Mice Has Long-Term Positive Effects on Metabolic and Behavioral Endpoints of Male and Female Offspring Prenatally Exposed to a High-Fat Diet.</i> Front Behav Neurosci. 2018 Mar 15;12:48. DOI :10.3389/fnbeh.2018.00048	2.6	8
3	Oberkersch R, Magnifico MC, Mollo A, Giambelli L, Grooten Y, Sarti P, Calabrese GC, Arese M . <i>VLDL Induced Modulation of Nitric Oxide Signalling and Cell Redox Homeostasis in HUVEC</i> Oxid Med Cell Longev. 2017:2697364 ID 2697364, 2017 DOI: 10.1155/2017/2697364	4.9	3
4	Graziani M, Sarti P, Arese M , Magnifico MC, Badiani A, Saso L. <i>Cardiovascular Mitochondrial Dysfunction Induced by Cocaine: Biomarkers and Possible Beneficial Effects of Modulators of Oxidative Stress</i> Oxid Med Cell Longev. 2017; 2017:3034245. DOI: 10.1155/2017/3034245. Review	4.9	13
5	Vicente JB, Malagrino F, Arese M , Forte E, Sarti P, Giuffrè A. <i>Bioenergetic relevance of hydrogen sulfide and the interplay between gasotransmitters at human cystathionine β-synthase</i> Biochim Biophys Acta. 2016 1857(8):1127-1138. DOI:10.1016/j.bbabbio.2016.03.030. Review.	4.7	28
6	Falabella M, Forte E, Magnifico MC, Santini P, Arese M , Giuffrè A, Radić K, Chessa L, Coarelli G, Buscarinu MC, Mechelli R, Salvetti M, Sarti P. <i>Evidence for Detrimental Cross Interactions between Reactive Oxygen and Nitrogen Species in Leber's Hereditary Optic Neuropathy Cells.</i>	4.6	6

	Oxid Med Cell Longev. 2016; 2016:3187560. DOI: 10.1155/2016/3187560.		
7	Sarti P, Magnifico MC, Altieri F, Mastronicola D, Arese M. <i>New Evidence for Cross Talk between Melatonin and Mitochondria Mediated by a Circadian-Compatible Interaction with Nitric Oxide.</i> Int. J. Mol. Sci. 2013; 14(6):11259-11276 DOI: 10.3390/ijms140611259	2.4	20
8	Arese M, Magnifico MC, Mastronicola D, Altieri F, Grillo C, Blanck TJJ, Sarti P. <i>Nanomolar melatonin enhances nNOS expression and controls HaCaT-cells bioenergetics</i> IUBMB Life. 2012, 64(3): 251-258 DOI:10.1002/iub.603	2.8	19
9	Sarti P, Forte E, Mastronicola D, Giuffrè A, Arese M. <i>Cytochrome c oxidase and Nitric Oxide in action: molecular mechanisms and pathophysiological implications.</i> Biochim Biophys Acta. 2012; 1817(4):610-619. DOI: 10.1016/j.bbabi.2011.09.002	3.8	85
10	Mastronicola D, Genova ML, Arese M, Barone MC, Giuffrè A, Bianchi C, Brunori M, Lenaz G, Sarti P. <i>Control of respiration by nitric oxide in Keilin-Hartree particles, mitochondria and SH-SY5Y neuroblastoma cells.</i> Cell Mol Life Sci. 2003; 60(8):1752-1759. DOI:10.1007/s00018-003-3127-3	5.0	30
11	Arese M, Zumft WG, Cutruzzolà F. <i>Expression of a fully functional cdi nitrite reductase from Pseudomonas aeruginosa in Pseudomonas stutzeri</i> Protein Expr Purif. 2003; 27 : 42-48. DOI: 10.1016/S1046-5928(02)00600-9	1.5	10
12	Cutruzzolà F, Brown K, Wilson,E.K, Bellelli A, Arese M, Tegoni M, Cambillau C, Brunori M. <i>The nitrite reductase from Pseudomonas Aeruginosa: essential role of two active site histidines in the catalytic and structural properties</i> PNAS 2001; 98(5): 2232-2237. DOI:10.1073/pnas.041365298	10.9	62

Part X– Complete Publication list (peer reviewed, IF from *InCites* /*JCR*; Citations from *SCOPUS*)

#	Authors, Title, reference	Impact Factor	Citations
1	Nonylphenol and Octylphenol Differently Affect Cell Redox Balance by Modulating the Nitric Oxide Signaling Magnifico MC, Xhani M, Popov M, Saso L, Sarti P, Arese M. Oxid Med Cell Longev. 2018:1684827 ID 1684827, 2018. DOI:10.1155/2018/1684827	4.9	5
2	Administration of the Antioxidant N-Acetyl-Cysteine in Pregnant Mice Has Long-Term Positive Effects on Metabolic and Behavioral Endpoints of Male and Female Offspring Prenatally Exposed to a High-Fat Diet. Berry A, Bellisario V, Panetta P, Raggi C, Magnifico MC, Arese M, Cirulli F. Front Behav Neurosci. 2018 Mar 15;12:48. DOI :10.3389/fnbeh.2018.00048.	2.6	8
3	VLDL Induced Modulation of Nitric Oxide Signalling and Cell Redox Homeostasis in HUVEC Oberkersch R, Magnifico MC, Mollo A, Giambelli L,Grooten Y, Sarti P, Calabrese GC, Arese M.		

	Oxid Med Cell Longev. 2017:2697364 ID 2697364, 2017 DOI: 10.1155/2017/2697364	4.9	3
4	Graziani M, Sarti P, Arese M , Magnifico MC, Badiani A, Saso L. Cardiovascular Mitochondrial Dysfunction Induced by Cocaine: Biomarkers and Possible Beneficial Effects of Modulators of Oxidative Stress Oxid Med Cell Longev. 2017 2017:3034245. DOI: 10.1155/2017/3034245. Review	4.9	13
5	Vicente JB, Malagrinò F, Arese M , Forte E, Sarti P, Giuffrè A. Bioenergetic relevance of hydrogen sulfide and the interplay between gasotransmitters at human cystathionine β -synthase. Biochim Biophys Acta. 2016 1857(8):1127-1138. DOI:10.1016/j.bbabbio.2016.03.030. Review.	4.7	28
6	Falabella M, Forte E, Magnifico MC, Santini P, Arese M , Giuffrè A, Radić K, Chessa L, Coarelli G, Buscarinu MC, Mechelli R, Salvetti M, Sarti P. Evidence for Detrimental Cross Interactions between Reactive Oxygen and Nitrogen Species in Leber's Hereditary Optic Neuropathy Cells. Oxid Med Cell Longev. 2016; 2016:3187560. DOI: 10.1155/2016/3187560.	4.6	6
7	Cytochrome bd Protects Bacteria against Oxidative and Nitrosative Stress: A Potential Target for Next-Generation Antimicrobial Agents. Borisov VB, Forte E, Siletsky SA, Arese M , Davletshin AI, Sarti P, Giuffrè A. Biochemistry (Mosc). 2015. 80(5):565-575 DOI:10.1134/S0006297915050077	1.4	15
8	Cytochrome bd oxidase and bacterial tolerance to oxidative and nitrosative stress. Giuffrè A, Borisov VB, Arese M , Sarti P, Forte E. Biochim Biophys Acta. 2014. 1837(7): 1178-1187; DOI:10.1016/j.bbabbio.2014.01.016	4.4	89
9	Characterization of mitochondrial dysfunctions in the 7PA2 cell model of Alzheimer's Disease Krako N, Magnifico MC, Arese M , Meli G, Forte E, Lecci A, Manca A, Giuffrè A, Mastronicola D, Sarti P, Cattaneo A. Journal of Alzheimer's Dis. 2013; 37(4):747-758, DOI:10.3233/JAD-130728	3.6	23
10	New Evidence for Cross Talk between Melatonin and Mitochondria Mediated by a Circadian-Compatible Interaction with Nitric Oxide Sarti P, Magnifico MC, Altieri F, Mastronicola D, Arese M . Int. J. Mol. Sci. 2013; 14(6):11259-11276 DOI: 10.3390/ijms140611259	2.4	20
11	Functional Dissection of the Multi-Domain Di-Heme Cytochrome c550 from Thermus thermophilus. Robin S, Arese M , Forte E, Sarti P, Kolaj-Robin O, Giuffrè A, Soulimane T. PLOS ONE 2013; 8(1): e55129; DOI: 10.1371/journal.pone.0055129	4	10
12	Nanomolar melatonin enhances nNOS expression and controls HaCaT-cells bioenergetics Arese M , Magnifico MC, Mastronicola D, Altieri F, Grillo C, Blanck TJJ, Sarti P IUBMB Life. 2012; 64(3): 251-258 DOI:10.1002/iub.603	2.8	19
13	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 . I.J. CELL BIOL.2012; Review. I.D. 571067; DOI: 10.1155/2012/571067	-	33
14	Cytochrome c oxidase and Nitric Oxide in action: molecular mechanisms and pathophysiological implications. Sarti P, Forte E, Mastronicola D, Giuffrè A, Arese M . Biochim Biophys Acta. 2012; 1817(4):610-619 Review .DOI: 10.1016/j.bbabbio.2011.09.002	3.8	85
15	Mitochondria and Nitric oxide: Chemistry and Pathophysiology Sarti P, Arese M , Forte E., Giuffrè A, Mastronicola D		

	(2012). in "Advances in Mitochondrial medicine" vol. 942:75-92 ISBN:978-94-007-2869-1 ed. Springer DOI:10.1007/978-94-007-2869-1_4	-	37
16	A sulfite respiration pathway from <i>Thermus thermophilus</i> and the key role of newly identified cytochrome <i>c</i> ₅₅₀ . Robin S, Arese M , Forte E, Sarti P, Giuffrè A, Soulimane T. <i>J. Bacteriol.</i> 2011; 193(15):3988-97. DOI: 10.1128/JB.05186-11	3.8	15
17	Control of cell respiration by nitric oxide in Ataxia Telangiectasia lymphoblastoid cells. Masci A, Mastronicola D, Arese M , Piane M, De Amicis A, Blanck TJ, Chessa L, Sarti P. <i>Biochim Biophys Acta.</i> 2008; 1777: 66-73. DOI: 10.1016/j.bbabbio.2007.10.016	2,7	10
18	Nitric oxide and the respiratory enzyme. Brunori M, Forte E, Arese M , Mastronicola D, Giuffrè A, Sarti P. <i>Biochim. Biophys Acta.</i> 2006; 1757: 1144-54. Review DOI: 10.1016/j.bbabbio.2006.05.011	2	61
19	Morphine but not fentanyl and methadone affects mitochondrial membrane potential by inducing nitric oxide release in glioma cells. Mastronicola D, Arcuri E, Arese M , Bacchi A, Mercadante S, Cardelli P, Citro G, Sarti P. <i>Cell Mol Life Sci.</i> 2004; 61: 2991-7. DOI: 10.1007/s00018-004-4371-x	4.8	21
20	The molecular mechanisms by which nitric oxide controls mitochondrial complex IV. Sarti P, Arese M , Giuffrè A. <i>Ital J Biochem.</i> 2003; 52: 37-42. Review.	-	17
21	Control of respiration by nitric oxide in Keilin-Hartree particles, mitochondria and SH-SY5Y neuroblastoma cells. Mastronicola D, Genova ML, Arese M , Barone MC, Giuffrè A, Bianchi C, Brunori M, Lenaz G, Sarti P. <i>Cell Mol Life Sci.</i> 2003; 60: 1752-59. DOI: 10.1007/s00018-003-3127-3	5.0	30
22	Nitric oxide and mitochondrial complex IV. Sarti P, Arese M , Bacchi A, Barone MC, Forte E, Mastronicola D, Brunori M, Giuffrè A. <i>IUBMB Life.</i> 2003; 55: 605-11. Review. DOI: 10.1080/15216540310001628726	2.3	44
23	Expression of a fully functional cd1 nitrite reductase from <i>Pseudomonas aeruginosa</i> in <i>Pseudomonas stutzeri</i> . Arese M , Zumft WG, Cutruzzola F. <i>Protein Expr Purif.</i> 2003 ; 27 : 42-48. DOI: 10.1016/S1046-5928(02)00600-9	1.5	10
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Firma

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