

Marzia Perluigi

Curriculum vitae

CONTACTS

Work Phone: 0649910935

Email address: marzia.perluigi@uniroma1.it

EDUCATION (academic degrees)

2013: PhD in Biochemistry, Department of Biochemical Sciences "A. Rossi fanelli", Sapienza University of Rome

1999: Doctor in Pharmaceutical Chemistry and Technology (summa cum laude), Faculty of Pharmacy and Medicine, Sapienza University of Rome

CAREER

2019: nominated Full Professor, Department of Biochemical Sciences "A. Rossi-Fanelli", Sapienza University of Rome

December 2012-18: Associate professor, Department of Biochemical Sciences "A. Rossi-Fanelli", Sapienza University of Rome

November 2006- 2012: Assistant professor, Department of Biochemical Sciences "A. Rossi-Fanelli", Sapienza University of Rome

CURRENT TEACHING ACTIVITY (year 2018/19)

2007-present: Basi molecolari e cellulari della vita, **coordinator**. Nurse School corso D, Sapienza University of Rome Biochemistry (2 CFU)

2012-present CcL "F", International Medical School Faculty of Pharmacy and Medicine, Sapienza University of Rome Biochemistry I&II (4 CFU)

2013-present Biomedical Laboratory Technicians and Radiologist. Faculty of Pharmacy and Medicine, Sapienza University of Rome- Sede RIETI, **coordinator** Chemistry (4 CFU)

2017-present Radiology Technicians (TSRM), **coordinator**. Policlinico Sapienza University of Rome Chemistry (2 CFU)

HONORS, AWARDS AND FELLOWSHIPS (maximum 5 best)

2012: Top "young researcher" (under 40) Faculty of Medicine, Sapienza University of Rome

2011: Travel award 36th International FEBS Congress Torino (IT)

2009: Travel award Italian Society of Biochemistry and Molecular Biology, Catania (IT)

2007: Travel award Italian Society of Biochemistry and Molecular Biology, Riccione (IT)

2004: Fellowship (Sapienza University) to support travel to University of Kentucky (USA)

FUNDINGS (maximum 5 best)

2017-20 PI, Aberrant insulin signalling contributes to development of Alzheimer disease in Down Syndrome: identifying novel drug candidates, Progetti GRANDI Ateneo, Sapienza 34.000 euro

2017-18 partecipante, Nuove strategie terapeutiche per la prevenzione della malattia di Alzheimer, Banca d'Italia n. 12868/17 del 5.1.2017 50.000,00 euro

2016-18 PI, Intranasal rapamycin administration to prevent Alzheimer-like dementia in Down Syndrome, Fondazione Jerome Lejeune 26.000,00 euro

2016-18 PI, mTOR activation within neural-derived, plasma-resident exosomes can predict cognitive decline in down syndrome", PI, Progetti MEDI Ateneo, Sapienza 10.000,00 + assegno

2013 PI, Biliverdin Reductase-A in brain insulin signalling and oxidative stress-mediated neurodegeneration, Marie Curie Actions European Union's Seventh Framework Programme (FP7/2007-2013) 180.000,00 Euro

PROFESSIONAL MEMBERSHIPS AND OTHER ACTIVITIES (maximum 100 words)

2018 Member of the European Society of Neuroscience (FENS)
2018: Member PIA, ISTAART (Alzheimer Association)
2015: Member of the Trisomy 21 Research Society (T21RS)
2008: Member of the Italian Society of Biochemistry and Molecular Biology (SIB)
2010: Member of Society for Free Radical Research (SFRR)
2013: Member Accademia Medica di Roma

5 BEST PUBLICATIONS (since 2009):

- 1) Di Domenico F, Tramutola A, Barone E, Lanzillotta C, Defever O, Arena A, Zuliani I, Foppoli C, Iavarone F, Vincenzoni F, Castagnola M, Butterfield DA, **Perluigi M**. Restoration of aberrant mTOR signaling by intranasal rapamycin reduces oxidative damage: Focus on HNE-modified proteins in a mouse model of down syndrome. *Redox Biol.* (2019) doi: 10.1016/j.redox.2019.101162. IF=7.2
- 2) Tramutola, A., Di Domenico, F., Barone, E., Arena, A., Giorgi, A., Di Francesco, L., Schininà, M.E., Coccia, R., Head, E., Butterfield, D.A., **Perluigi, M**. Polyubiquitinylation profile in down syndrome brain before and after the development of Alzheimer neuropathology (2017) *Antioxidants and Redox Signaling*, 26 (7), pp. 280-298. IF=6.337
- 3) Barone, E., Di Domenico, F., Cassano, T., Arena, A., Tramutola, A., Lavecchia, M.A., Coccia, R., Butterfield, D.A., **Perluigi, M**. Impairment of biliverdin reductase-A promotes brain insulin resistance in Alzheimer disease: A new paradigm (2016) *Free Radical Biology and Medicine*, 91, pp. 127-142. IF=5.606
- 4) Di Domenico, F., Pupo, G., Giraldo, E., Badia, M.-C., Monllor, P., Lloret, A., Eugenia Schininà, M., Giorgi, A., Cini, C., Tramutola, A., Butterfield, D.A., Viña, J., **Perluigi, M**. Oxidative signature of cerebrospinal fluid from mild cognitive impairment and Alzheimer disease patients. (2016) *Free Radical Biology and Medicine*, 91, pp. 1-9. IF=5.606
- 5) **Perluigi, M.**, Pupo, G., Tramutola, A., Cini, C., Coccia, R., Barone, E., Head, E., Butterfield, D.A., Di Domenico, F. Neuropathological role of PI3K/Akt/mTOR axis in Down syndrome brain (2014) *Biochimica et Biophysica Acta - Molecular Basis of Disease*, 1842 (7), pp. 1144-1153. IF=4.882

BIBLIOMETRIC DATA

ORCID ID: 0000-0003-4668-5239

(SCOPUS database)

Pubblicazioni totali: 113

Citazioni totali: 4866

H-index: 43

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CONTATTI

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Indirizzo email: marzia.perluigi@uniroma1.it

TITOLI DI STUDIO (laurea e post-laurea)

2013: Dottorato in Biochimica, Dip. Scienze biochimiche “A Rossi fanelli”, Sapienza Università di Roma

1999: Laurea in CTF 110/110 con lode. Facoltà di Farmacia, Sapienza Università di Roma

CARRIERA PROFESSIONALE

2019: vincitrice procedura valutativa per un posto di Professore Ordinario, BIO/10 (2018POR013)

2012: Professore Associato, Dip. Scienze Biochimiche “A Rossi Fanelli”, Sapienza Università di Roma

2006: Ricercatore universitario, Dip. Scienze Biochimiche “A Rossi Fanelli”, Sapienza Università di Roma

ATTIVITA' DIDATTICA ATTUALE (anno 2018/19)

2007: Basi molecolari e cellulari della vita, Infermieristica corso D (2 CFU). **Coordinatore**
Sapienza Università di Roma

2012: Biochimica I &II CcL “F”, International Medical School, facoltà di farmacia e medicina (4 CFU)

2013: Tecnici di laboratorio biomedico, Sapienza Università di Roma- Sede RIETI (2CFU). **Coordinatore**

2013: Tecnici di radiologia, Sapienza Università di Roma- Sede RIETI (2CFU). **Coordinatore**

2017: Tecnici di radiologia, Sapienza Università di Roma- Sede Policlinico (2CFU). **Coordinatore**

RICONOSCIMENTI, PREMI E BORSE DI STUDIO (massimo 5 migliori)

2012: Top “young researcher” (under 40) Faculty of Medicine, Sapienza University of Rome

2011: Travel award 36th International FEBS Congress Torino (IT)

2009: Travel award Italian Society of Biochemistry and Molecular Biology, Catania (IT)

2007: Travel award Italian Society of Biochemistry and Molecular Biology, Riccione (IT)

2004: Fellowship (Sapienza University) to support travel to University of Kentucky (USA)

FINANZIAMENTI (massimo 5 migliori)

2017-20 PI, Aberrant insulin signalling contributes to development of Alzheimer disease in Down Syndrome: identifying novel drug candidates, Progetti GRANDI Ateneo, Sapienza 34.000 euro

2017-18 partecipante, Nuove strategie terapeutiche per la prevenzione della malattia di Alzheimer, Banca d'Italia n. 12868/17 del 5.1.2017 50.000,00 euro

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2013 PI, Biliverdin Reductase-A in brain insulin signalling and oxidative stress-mediated neurodegeneration, Marie Curie Actions European Union's Seventh Framework Programme (FP7/2007-2013) 180.000,00 Euro

ISCRIZIONI PROFESSIONALI E ALTRE ATTIVITA'

2018 Membro of the European Society of Neuroscience (FENS)
2018: Membro PIA, ISTAART (Alzheimer Association)
2015: Membro of the Trisomy 21 Research Society (T21RS)
2008: Membro of the Italian Society of Biochemistry and Molecular Biology (SIB)
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5 MIGLIORI PUBBLICAZIONI (dal 2009):

- 1) Di Domenico F, Tramutola A, Barone E, Lanzillotta C, Defever O, Arena A, Zuliani I, Foppoli C, Iavarone F, Vincenzoni F, Castagnola M, Butterfield DA, **Perluigi M.** Restoration of aberrant mTOR signaling by intranasal rapamycin reduces oxidative damage: Focus on HNE-modified proteins in a mouse model of down syndrome. *Redox Biol.* (2019) doi: 10.1016/j.redox.2019.101162. IF=7.2
- 2) Tramutola, A., Di Domenico, F., Barone, E., Arena, A., Giorgi, A., Di Francesco, L., Schininà, M.E., Coccia, R., Head, E., Butterfield, D.A., **Perluigi, M.** Polyubiquitinylation profile in down syndrome brain before and after the development of Alzheimer neuropathology (2017) *Antioxidants and Redox Signaling*, 26 (7), pp. 280-298. IF=6.337
- 3) Barone, E., Di Domenico, F., Cassano, T., Arena, A., Tramutola, A., Lavecchia, M.A., Coccia, R., Butterfield, D.A., **Perluigi, M.** Impairment of biliverdin reductase-A promotes brain insulin resistance in Alzheimer disease: A new paradigm (2016) *Free Radical Biology and Medicine*, 91, pp. 127-142. IF=5.606
- 4) Di Domenico, F., Pupo, G., Giraldo, E., Badia, M.-C., Monllor, P., Lloret, A., Eugenia Schininà, M., Giorgi, A., Cini, C., Tramutola, A., Butterfield, D.A., Viña, J., **Perluigi, M.** Oxidative signature of cerebrospinal fluid from mild cognitive impairment and Alzheimer disease patients. (2016) *Free Radical Biology and Medicine*, 91, pp. 1-9. IF=5.606
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