PERSONAL INFORMATION

Laura Marchetti

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 Scopus ID 16834912400
 WOS ID: AAB-9843-2019

Sex Female | Date of birth 15/03/1980 | Nationality Italian

Enterprise		University	EPR
Management Level		Full professor	Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
Mid-Management Level		Associate Professor	Level III Researcher and Technologist
Employee / worker level		Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	Researcher and Technologist of IV, V, VI and VII level / Technical collaborator
WORK EXPERIENCE			
Dec 2021 – present	Senior Researcher (RTDB) in Molecular Biology (SSD BIO/11)		
	Department of Pharmacy, University of Pisa, Italy		
	 Teaching and research activities in molecular biology and related disciplines 		
Jan 2019 – Nov 2021	Junior Researcher (RTDA) in Molecular Biology (SSD BIO/11)		
	Department of Pharmacy, University of Pisa, Italy		
	 Teaching and 	research activities in molecular biology an	d related disciplines
Sept 2015 – Dec 2018	Senior post-Do	oc researcher	
	Italian Institute of Technology, Pisa Laboratories, Italy		
	 Research activity 	vity in molecular neurobiology, biomaterials	s and nanotechnology
July 2010 – Aug 2015	Post-Doc researcher		
	Scuola Normale Superiore, Pisa, Italy		
	 Research activity 	vity in molecular neurobiology, ligand-rece	ptor interactions and computational biology
EDUCATION AND TRAINING			
Jan 2006 – Jun 2010	PhD in Molecular Biology, Scuola Normale Superiore, Pisa, Italy		
	 Thesis discussed on the 10th June 2010, grade: 70/70 cum laude 		
Jun 2005 – Dec 2005	Graduate Fellowship, Scuola Normale Superiore, Pisa, Italy		
Oct 1999 – Mar 2005	Master Degree in Pharmaceutical Biotechnologies, University of Padova, Italy Thesis discussed on the 5th March 2004, grade: 110/110 cum laude 		
Mar 2004 – Feb 2005	Experimental thesis period at the Chemical Biology Laboratory of Prof. Dr. M. Famulok, University of Bonn, Germany		
WORK ACTIVITIES			
Awards	• 2019: Awarde • 2011: Winner	d a research commentary at PNAS journa	cipation at the FEBS practical course "Viral
Editorial activity	ACS, Frontiers Factors: Metho	itor for Frontiers in Molecular Biosciences s and MDPI editorial groups; Chapter cont ods and Protocols", ed. Springer Humana	

Devices", ed. Elsevier, 2022).

Invited talks and lectures	 Society of Italian Biochemistry and Molecular Biology Annual Meeting, "The neurotrophin signalling network: From intracellular dynamics to therapeutic targeting", 23rd September 2021 5th International Synthetic & Systems Biology Summer School (SSBSS 2018), "Single molecule 		
	tracking reveals the oligomerization state of activated neurotrophin receptors in live cell membranes", Certosa di Pontignano, Siena, Italy, 25 th July 2018		
	 Seminar "Single molecule imaging and tracking of neurotrophins and their receptors in living neuronal cells" at DANDRITE Lab headed by Prof. A. Nykjaer, Department of Biomedicine, University of Aarhus, Denmark, 29th October 2015 		
Conference committees and organization	 Co-chair of the Session Platform "Molecular, Cellular, and Experimental Neuroscience: Reception, Plasticity, and New Approaches", at Biophysical Society 60th Annual Meeting, Los Angeles California, USA, 27th February -2nd March 2016 		
	 Co-organizer of the Under 40 Symposium "Neurotrophins in physiology and pathology: novel molecular and cellular perspectives" al Congresso SINS XVI, Cagliari, Italy, 8-11 October 2015 		
Grants	 2021-24: Workpackage leader of the Human Frontiers Science Program project entitled "Structural damage to axons resulting from repetitive mechanical motion" 		
	 2020-23: Team member of the Tuscany Region Bando Ricerca Salute 2018, entitled: "Smart bioactive personalised and implantable 3d printed scaffold for tendon regeneration". 		
	 2020-22: Team member of the University of Pisa PRA_2020_92 project entitled: "Quantum computing, technologies and applications". 		
	 2020-21: Team member of the University of Pisa Proof-of-Concept SPARK Pisa entitled: "Fret sensor for the Assessment of Coronavirus Titre" 		
	 2019-20: Workpackage leader of the project "Innovative Combinatory Chemotherapy approaches for Colorectal Cancer Treatment", funded by Beneficentia Stiftung Foundation 		
	 2014-18: Team member of the European FET Flaghsip Human Brain Project (HBP), Grant agreement number 604102, SGA1-2 n. 720270 		
Patents	 2008: European patent N. 08165522.7-1212: "Novel pH- and anion- concentration-responsive GFP mutant, a chimeric protein comprising such a mutant and a method for the combined assaying of the pH and anion concentration". 		
	 2007: Italian patent N. TO2007A000687: "Nuovo mutante di GFP sensibile al pH e alla concentrazione di anioni, proteina chimerica comprendente tale mutante e procedimento di determinazione combinata del pH e della concentrazione di anioni". 		
ADDITIONAL INFORMATION			
Bibliometric indexes	total number of publications in peer-review journals in the last 10 years (2013-2023): 38 total journal Impact Factor wos 2021 (average IF/paper) of the last 10 years: 241.4 (6.35) total number of citations (scopus) 1401 H index (scopus) 18		
Relevant publications	 Human Microglia Extracellular Vesicles Derived from Different Microglia Cell Lines: Similarities and Differences Ceccarelli L., Marchetti L.*, Rizzo M., Moscardini A., Cappello V., Da Pozzo E., Romano M., Giacomelli C., Bergese, P., Martini, C., ACS Omega, 2022, 7(27), pp. 23127–23137. Marchetti L., Nifosì R., Martelli P.L., Martini C., D'Elia, M. Quantum computing algorithms: getting closer to critical 		
	problems in computational biology, Briefings in Bioinformatics, 2022, 23(6), pp. 1–15.		
	- Convertino D.*, Fabbri F., Mishra N., Mainardi M., Cappello V., Testa G., Capsoni S., Albertazzi L., Luin S., Marchetti L. * ^{\$} , and Coletti C.* ^{\$} , "Graphene Promotes Axon Elongation through Local Stall of Nerve Growth Factor Signaling Endosomes", Nano Letters, 2020, 20, 5, 3633–3641		
	- Marchetti L.* ^{\$} , Bonsignore F ^{\$} , Gobbo F ^{\$} , Amodeo R, Calvello M, Jacob A, Signore G, Schirripa Spagnolo C, Porciani D, Mainardi M, Beltram F, Luin S*, Cattaneo A*, "Fast-diffusing p75NTR monomers support apoptosis and growth cone collapse by neurotrophin ligands", PNAS 2019 Sept 12, 2019, doi: 10.1073/pnas.1902790116		
	- Gobbo F, Marchetti L , Jacob A, Pinto B, Binini N, Pecoraro Bisogni F, Alia C, Luin S, Caleo M, Fellin T, Cancedda L, Cattaneo A., "Activity-dependent expression of Channelrhodopsin at neuronal synapses", Nat Commun, 2017 Nov 20;8(1):1629. doi: 10.1038/s41467-017-01699-7.		
	 Porciani D, Tedeschi L, Marchetti L, Citti L, Piazza V, Beltram F, Signore G., "Aptamer-Mediated Codelivery of Doxorubicin and NF-kB Decoy Enhances Chemosensitivity of Pancreatic Tumor Cells.", Mol Ther Nucleic Acids. 2015 Apr 28;4:e235. 		
	For the complete list of publications, see: <u>https://arpi.unipi.it/simple-</u> <u>search?query=laura%5C+marchetti&location=&sort_by=scoreℴ=desc&rpp=10&etal=0&filtemame=author&filte rquery=rp97535&filtertype=authority</u>		

Pisa, 15/05/2023

Course Marcheter