VALENTINA CARABELLI CURRICULUM VITAE

Name and surname: Valentina Carabelli Date and place of birth: 28/11/1967, Torino, Italy Current position: Full Professor (Physiology), University of Torino, Italy Address: Department of Drug Science and Technology, Corso Raffaello, 30, 10125 TORINO Telephone: ++39-011-6708488 Fax: ++39-011-6708498 E-mail: valentina.carabelli@unito.it ORCID NUMBER: 0000-0002-8718-1208

PROFESSIONAL DEGREES

1992: Degree in Physics (110/110), Faculty of Physics, University of Torino, Italy
1997: PhD in Cellular Physiology and Neuroimmunophysiology, University of Siena, Italy
1997-1998: Post-Doctoral fellowship from "Fondazione Cavalieri Ottolenghi"
1998-1999: Post-Doctoral fellowship from INFM (National Institute Physics of Matter)
1999: Researcher position, University of Torino.
2005: Associate professor, Department of Drug Science and Technology, University of Torino

2005: Associate professor, Department of Drug Science and Technology, University of Torino **Since 2018**: Full Professor in Physiology.

RESEARCH ACTIVITY

Research activity has been focused since the early career on the biophysics and modulation of calcium channels, with a specific interest in their role in regulating exocytotic processes as well as cellular excitability, using different experimental models such as hippocampal neurons, neuroendocrine chromaffin cells, clonal and immortalized cell lines. More recently, her main scientific interests have been addressed to investigate the molecular basis of neuronal excitability by combining classical electrophysiological techniques together with the use of multi electrode arrays, and to the development of new diamond-based biosensors for simultaneous detection of neurotrasmitter release, cell excitability and Ca²⁺ transients. The use of these protoypes has been focused on the investigation of neurodegenerative disesases by monitoring the early stages of neurodegenerative processes.

V.C. is Full Professor at the University of Torino, where she coordinates the group of cellular physiology and molecular neuroscience (PhyNe) at the Department of Drug Science and

Technology. V.C. collaborates since many years in the framework of projects articulated within the inter-departmental centre "Nanostructured Interfaces and Surfaces" (NIS). Her scientific interests include the molecular basis of neuronal excitability and neurotransmitter release, monitored though classical approaches and the development of biosensors arrays. V.C. is co-author of 81 papers on peer reviewed journals (H-index: 33).

V.C. is collaborating as a reviewer with several the international journals, such as: Pflügers Archiv. European Journal of Physiology, Nanotoxicology, Biosensors and Bioelectronics, Cell Calcium, Journal of Neurochemistry, European Journal of Pharmacology, Analytical Chemistry, Neurotoxicology, Toxicological Sciences, International Journal of Molecular Science. Editor of Frontiers in Cellular Neuroscience.

<u>GRANTS</u>

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