

# GIULIETTA PINATO

## CURRICULUM VITAE

### EDUCATION

- 2000: **Ph.D. in Biophysics**, International School for Advanced Studies (SISSA/ISAS), Trieste, Italy.  
Supervisor: Prof. Vincent Torre  
Title of the thesis: *Parallel processing in the leech central nervous system*
- 1996: **Degree in Physics**, Università' di Torino, Italy.  
Supervisor: Prof. Mario Ferraro  
Title of the thesis: *Surface reconstruction from texture*

### RESEARCH POSITIONS

- From October 2012: **Experienced Researcher**, University of Nova Gorica, Slovenia
- September 2009-September 2012: **Researcher (Ricercatore livello III CNR)**, Istituto Officina dei Materiali-CNR, Trieste, Italy
- October 2003 – May 2009: **Postdoc**, Neurobiology Sector, SISSA, Trieste, Italy
- April 2000 – September 2003: **Assistant Research Professor**, Department of Medical Physiology, University of Copenhagen, Denmark
- November 1996 - April 2000: **Doctorate Research** under the supervision of Prof. Vincent Torre, SISSA, Trieste.

### GRANTS, AWARDS AND QUALIFICATIONS

2013: National scientific qualification to function as **associate professor** in the Italian Universities for the academic sector 02/B3 Applied Physics.

2012: Qualification (Idoneita'acquisita con partecipazione a concorso pubblico) for the position of "**ricercatore III livello CNR**", Istituto di Neuroscienze, CNR, Padova, Italy

2011: Qualification (Idoneita'acquisita con partecipazione a concorso pubblico) for the position of "**ricercatore III livello CNR**", Istituto di Biofisica del CNR, Genova, Italy

2004: M. Curie European Reintegration Grant

2000: European M. Curie Individual Fellowship

1996: Ph.D. Scholarship from the Italian Minister of University and Scientific Research

### MAIN RESEARCH INTERESTS

- Biophotonics and biomedical optics
- Nanobiotechnologies
- Neurophysiology

- Electrophysiology

## **PUBLICATIONS**

1. Difato F, **Pinato G**, Cojoc D. (2013) Cell Signaling Experiments Driven by Optical Manipulation. *Int. J. Mol. Sci.* 14(5):8963-8984.
2. **Pinato G**, Cojoc D, Lien TL, Ansuini A, Ban J, D'Este E, Torre V (2012) Less than 5 Netrin-1 molecules initiate attraction but 200 Sema3A molecules are necessary for repulsion. (*Scientific Reports*, 2, 675)
3. **Pinato G**, Raffaelli T, D'Este E, Tavano F, Cojoc D (2011) Optical delivery of liposome encapsulated chemical stimuli to neuronal cells. (*Journal of Biomedical Optics*, 16; 095001-5)
4. Tavano F, Bonin S, **Pinato G**, Stanta G, Cojoc D (2011) Custom-built optical tweezers for locally probing the viscoelastic properties of cancer cells. (*International Journal of Optomechatronics* 55: 234–248)
5. **Pinato G**, Lien LT, D'Este E, Torre V, Cojoc D (2011) Neuronal chemotaxis by optically manipulated liposomes. (*Journal of the European Optical Society Rapid Publications*, 6, 11042 1-5)
6. D'Este E, Baj G, Beuzer P, Ferrari E, **Pinato G**, Tongiorgi E, Cojoc D (2011) Use of optical tweezers technology for long-term, focal stimulation of specific subcellular neuronal compartments. (*Integr Biol (Camb)*. 2011 May 3;3(5):568-77)
7. **Pinato G**, Pegoraro S, Iacono G, Ruaro E, Torre V (2009) Calcium control of gene regulation in rat hippocampal neuronal cultures. (*J Cell Physiol.* May 13; 220(3):727-747)
8. **Pinato G**, Pegoraro S, Ruaro E, Torre V. (2009) Elevation of somatic Ca<sup>2+</sup> up-regulates genes Nr4a1 and Egr2 but not Bdnf and Arc. (*Neuroreport.* Jun 17;20(9):869-74)
9. **Pinato G**, Rievaj J, Pifferi S, Dibattista M, Masten L, Menini A (2008) Electro-olfactogram responses from organotypic cultures of the olfactory epithelium from postnatal mice. *Chem Senses* 2008 Apr;33(4):397-404.
10. Ban J, Bonifazi P, **Pinato G**, Broccard FD, Studer L, Torre V, Ruaro ME.(2007) Embryonic stem cell-derived neurons form functional networks in vitro. *Stem Cells.* 2007 Mar; 25(3): 738-49.
11. Shimazaki R, Boccaccio A, Mazzatenta A, **Pinato G**, Migliore M, Menini A (2006) Electrophysiological properties and modeling of murine vomeronasal sensory neurons in acute slice preparations. *Chem Senses* 31: 425-435.

12. **Pinato G**, Midtgaard J (2005) Dendritic sodium spikelets and low-threshold calcium spikes in turtle olfactory bulb granule cells. *J Neurophysiol* 93: 1285-1294.
13. Garcia-Perez E, Zoccolan D, **Pinato G**, Torre V (2004) Dynamics and reproducibility of a moderately complex sensory-motor response in the medicinal leech. *J Neurophysiol* 92: 1783-1795.
14. **Pinato G**, Midtgaard J (2003) Regulation of granule cell excitability by a low-threshold calcium spike in turtle olfactory bulb. *J Neurophysiol* 90: 3341-3351.
15. Zoccolan D, **Pinato G**, Torre V (2002) Highly variable spike trains underlie reproducible sensorimotor responses in the medicinal leech. *J Neurosci* 22: 10790-10800.
16. **Pinato G**, Torre V (2000) Coding and adaptation during mechanical stimulation in the leech nervous system. *J Physiol* 529 Pt 3: 747-762.
17. **Pinato G**, Battiston S, Torre V (2000) Statistical independence and neural computation in the leech ganglion. *Biol Cybern* 83: 119-130.
18. **Pinato G**, Parodi P, Bisso A, Macri D, Kawana A, Jimbo Y, Torre V (1999) Properties of the evoked spatio-temporal electrical activity in neuronal assemblies. *Rev Neurosci* 10: 279-290.