

# Curriculum Vitae

## Personal information

Name and surname **CLAUDIA MANIEZZI**  
Address Via San Zino, 12/A, 27020, Dorno (PV), Italy  
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E-mail claudia.maniezzi01@universitadipavia.it  
Nationality Italian  
Date of birth April 29, 1988  
Place of birth Vigevano (PV), Italy

## Work experience

Dates From November 2016 to date  
Occupation or position held *Post doctoral assistant*  
Name and address of employer University of Milan  
Department of Biosciences – Laboratory of stem cell biology and pharmacology of neurodegenerative diseases (Cattaneo lab)  
Via Francesco Sforza, 35, 20122, Milan (MI), Italy  
Research field Electrophysiological patch-clamp technique on cell cultures, aimed at investigating the functional differentiation of human embryonic stem cells into striatal medium-sized spiny neurons  
Dates From November 2013 to October 2016  
Occupation or position held *PhD student at the Doctoral school in Biomedical Science – Program in Physiology*  
Name and address of employer University of Pavia  
Department of Biology and Biotechnology “L. Spallanzani” – Laboratory of Electrophysiology and Biophysics of ion channels (Toselli and Biella lab)  
Via Forlanini, 6, 27100, Pavia (PV), Italy  
Research field Electrophysiological patch-clamp technique on mouse brain slices, aimed at investigating:  
1) The effect of oxytocin on hippocampal CA1 pyramidal neurons and GAergic interneurons  
2) The effect of cholesterol on the synaptic properties of striatal medium-sized spiny neurons in a mouse model of Huntington's disease  
Dates From May 2012 to October 2013  
Occupation or position held *Master's thesis internship*  
Name and address of employer University of Pavia  
Department of Biology and Biotechnology “L. Spallanzani” – Laboratory of Electrophysiology and biophysics of ion channels (Toselli and Biella lab)  
Via Forlanini, 6, 27100, Pavia (PV), Italy

Research field	Electrophysiological patch-clamp technique on mouse brain slices, aimed at investigating the muscarinic modulation of the perirhinal cortex and the membrane resonance/oscillations of perirhinal pyramidal neurons and GABAergic interneurons
Dates	From October 2010 to September 2011
Occupation or position held	<i>Bachelor's thesis internship</i>
Name and address of employer	University of Pavia Department of Genetics and Microbiology "A. Buzzati-Traverso" – Laboratory of Molecular and cellular biology (Giulotto lab) Via Ferrata, 1, 27100, Pavia (PV), Italy

Research field	Molecular biology and genetics techniques (e.g. Polymerase Chain Reaction, agarose gel electrophoresis, RNA/DNA extraction), aimed at investigating the role of interstitial telomeric sequences in the regulation of mRNA splicing
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### **Education and training**

Date	October 24, 2013
Title of qualification awarded	<i>Master's degree in Neurobiology – graduated with honors</i>  Thesis title: " <i>Resonance, oscillations and muscarinic modulation in the mouse perirhinal cortex</i> "
Name and type of organization providing education and training	University of Pavia, Pavia, Italy

Date	September 15, 2011
Title of qualification awarded	<i>Bachelor's degree in Biological Sciences – graduated with honors</i>  Thesis title: " <i>Role of interstitial telomeric sequences in the splicing regulation</i> "
Name and type of organization providing education and training	University of Pavia, Pavia, Italy

### **Papers in preparation**

- 1) "*Role of cholesterol in mouse model of Huntington's disease*"
- 2) "*Oxytocin modulates GABA<sub>A</sub> receptor-mediated inhibition onto CA1 pyramidal neurons in mouse*"
- 3) "*Resonance properties of pyramidal and GABAergic interneurons of the perirhinal cortex of the mouse*"

## Abstract and oral presentations

- 1) Maniezzi C., Cesana E., Talpo F., Conforti P., Manzella S., Cristofolini M., Morandotti B., Toselli M., Cattaneo E., Biella G. "The human induced pluripotent stem cells: an in vitro model to study possible functional markers of Huntington's Disease". 68<sup>TH</sup> SIF National Congress of Italian Physiological Society. Pavia (Italy), 6-8 September 2017
- 2) Cerquetella C., Balsamo G., Masoli S., D'Angelo E., Talpo F., Maniezzi C., Toselli M., Biella G. "A NEURON model of a striatal medium spiny neuron (MSN)". 68<sup>TH</sup> SIF National Congress of Italian Physiological Society. Pavia (Italy), 6-8 September 2017
- 3) Maniezzi C., Talpo F., Spaiardi P., Petrella M., Tamamaki N., Biella G., Toselli M. "Oxytocin modulates phasic and tonic GABA<sub>A</sub> receptor-mediated inhibition of firing in CA1 pyramidal cells". 10<sup>TH</sup> FENS Forum of European Neuroscience. Copenhagen (Denmark), 2-6 July 2016
- 4) Maniezzi C. "Electrophysiological response of CA1 hippocampal neurons to the administration of Thr<sup>4</sup>, Gly<sup>7</sup>-oxytocin in mouse brain slices". Spring hippocampal research conference. Taormina (Italy), 7-11 June 2015
- 5) Binini N., Maniezzi C., Talpo F., Yanagawa Y., Spaiardi P., Toselli M., Biella G. "Resonance properties of the perirhinal neurons in the mouse". 9<sup>TH</sup> FENS Forum of European Neuroscience. Milan (Italy), 5-9 July 2014
- 6) Binini N., Talpo F., Spaiardi P., Maniezzi C., Toselli M., Biella G. "Resonance, oscillations and muscarinic modulation in the mouse perirhinal cortex". XV SINS National Congress of the Italian Society of Neuroscience. Rome (Italy), 3-5 October 2013

## Professional development

- 1) 68<sup>TH</sup> SIF National Congress of Italian Physiological Society. Pavia, 6-8 September 2017
- 2) Advanced course "Neural stem cells-development and brain repair". Cortona, 20-27 May 2017
- 3) 10<sup>TH</sup> FENS Forum of European Neuroscience. Copenhagen, 2-6 July 2016
- 4) Spring hippocampal research conference. Taormina, 7-11 June 2015
- 5) 9<sup>TH</sup> FENS Forum of European Neuroscience. Milan, 5-9 July 2014
- 6) XV National Congress of the Italian Society of Neuroscience. Rome, 3-5 October 2013

## Didactics

- 1) Lecture given during the course of "Neural bases of behavior and Neuropsychology", Master's degree in Neurobiology, University of Pavia (A.A. 2016 - 2017)
- 2) Lecture given during the course of "Physiology of integrated systems", Master's degree in Neurobiology, University of Pavia (A.A. 2016 - 2017)
- 3) Exercises for students attending the course of "Cellular Neurophysiology", Master's degree in Neurobiology, University of Pavia (A.A. 2016 - 2017)
- 4) Exercises for students attending the course of "General Physiology", Bachelor's degree in Biological Sciences, University of Pavia (A.A. 2016 - 2017)
- 5) Exercises for students attending the course of "Principles of Physiology", Bachelor's degree in Bioengineering, University of Pavia (A.A. 2016 - 2017)

## Theses correlator

1) Master's degree in Neurobiology (University of Pavia - A.A. 2015-2016) of Luca Fazio

Thesis title: *"Glial cholesterol partially rescues the synaptic alterations in a mouse model of Huntington's disease"*

Supervisor: Professor Gerardo Biella; Correlator: Dr. Claudia Maniezzi

2) Master's degree in Neurobiology (University of Pavia - A.A. 2015-2016) of Daniela Iezzi

Thesis title: *"Increase in the GABAergic activity of hippocampal pyramidal neurons due to the effect of oxytocin"*

Supervisor: Professor Mauro Toselli; Correlator: Dr. Claudia Maniezzi

3) Bachelor's degree in Biological Sciences (University of Pavia - A.A. 2015-2016) of Michela Cristofolini

Thesis title: *"Effect of oxytocin on the kinetics of inhibitory synaptic currents in mouse hippocampal neurons"*

Supervisor: Professor Mauro Toselli; Correlator: Dr. Claudia Maniezzi

4) Master's degree in Neurobiology (University of Pavia - A.A. 2014-2015) of Michele Petrella

Thesis title: *"Effects of oxytocin receptor activation on the modulation of hippocampal neurons"*

Supervisor: Professor Mauro Toselli; Correlator: Dr. Claudia Maniezzi

5) Bachelor's degree in Biological Sciences (University of Pavia - A.A. 2014-2015) of Giulia Caso

Thesis title: *"Modulation of the L-type calcium current by oxytocin in mouse hippocampal GABAergic interneurons"*

Supervisor: Professor Mauro Toselli. Correlator: Dr. Claudia Maniezzi

## Language skills

Mother tongue **Italian**

Other language **English**

Self-assessment Good understanding

Good speaking

Good writing

## Personal skills

Social skills Good teaching and training skills derived from the supervision of Master's and Bachelor's students during their thesis internships

Organization skills Good organizational skills derived from both the experimental planning and the collaboration with other research groups

Technical Skills	<ol style="list-style-type: none"> <li>1) Fully competent in the use of the electrophysiological laboratory equipments and the patch-clamp set-up</li> <li>2) Excellent command of the intracardiac perfusion procedure and murine brain dissection</li> <li>3) Excellent knowledge of the whole-cell patch-clamp technique on cell cultures and brain slices</li> <li>4) Knowledge of the main techniques of cell biology</li> <li>5) Knowledge of specific molecular biology techniques (e.g. Polymerase Chain Reaction, agarose gel electrophoresis, RNA/DNA extraction)</li> </ol>
Computer Skills	<ol style="list-style-type: none"> <li>1) Good knowledge of Windows operating system</li> <li>2) Good knowledge of Microsoft Office (Word, Excel and PowerPoint)</li> <li>3) Good knowledge of the main Internet Browsers and the database Entrez-Pubmed</li> <li>4) Good knowledge of the software for acquisition and data analysis: "p-Clamp" (Clampex and Clampfit) and "LabView"</li> <li>5) Good knowledge of the software for statistic and data analysis "Microcal Origin"</li> <li>6) Good knowledge of the graphics software "CorelDRAW"</li> </ol>