

Curriculum Vitae

Chiara Tesoriero, Ph.D.

Date of Birth: September 6, 1987

Language: Italian (mother tongue)
English (B1)

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CURRENT POSITION

2016 - present: postdoctoral research activity, University of Verona, Italy

EDUCATION

2025, March	National Qualification for Associate Professor in Comparative anatomy and cytology (SSD 05/B2)
2014, December	Board exam for qualification as Biologist
2013 - 2015	Ph.D. in Neuroscience at University of Verona, Italy Thesis: Sleep and infections Supervisor: Prof. Marina Bentivoglio
2012	MSc degree in Biology applied to biomedical research (110/110) at University of Milan, Italy Thesis: Analysis of the nigrostriatal pathway in parkin knockout mice Supervisor: Dr. Alida Amadeo
2010	BSc degree in Biological Sciences (108/110) at University of Milan, Italy Thesis: Expression of Calcium binding proteins in the cerebral cortex in parkin knockout mice Supervisor: Dr. Alida Amadeo
2006	Scientific High School Diploma (98/100) at Liceo Scientifico Isa Conti Eller Vainicher, Lipari, Italy

SCIENTIFIC EXPERIENCE

2019-today	Postdoctoral research fellow, Dept. of Biotechnology, University of Verona, Italy
2017	Summer School "Brain Connectivity and Connectomics" - IBRO-Kemali Mediterranean School, Rabat, Marocco
2016-2019	Postdoctoral research fellow, Dept. of Neuroscience, Biomedicine and Movement Science, University of Verona, Italy
2013-2014	Guest research fellow, Karolinska Institutet, Dept. of Neuroscience, Stockholm, Sweden (laboratory of Prof. Krister Kristensson)
2013	Training in "Laboratory Animal Science for Researchers – Rodents and Lagomorphs" (FELASA B equivalent level), Karolinska Institutet, Stockholm, Sweden

2012 - 2015	Research involvement in the project <i>Understanding the comorbidity spectrum in genetically determined and sporadic human narcolepsy with cataplexy</i> , in collaboration with the laboratory led by Prof. Krister Kristensson, at the Department of Neuroscience, Karolinska Institute, Stockholm, Sweden.
2011 - 2012	Internship for MSc degree thesis at the Dept. of Molecular Biology and Biotechnology, University of Milan, Italy (Tutor: Dr. Alida Amadeo)
2009	Internship for BSc degree thesis at the Dept. of Molecular biology and Biotechnology, University of Milan, Italy (Tutor: Dr. Alida Amadeo)

SKILLS

Laboratory Animal Handling	• Rodents (mice and rats) ○ Extensive background on rodents including drug administration (intraperitoneal, intravenous and subcutaneous injections); ○ Electroencephalography (EEG) recording in rodents: stereotaxic surgery for chronic implant of electrodes for EEG and electromyography (EMG); NeuroLogger system for EEG/EMG recording; Scoring of EEG/EMG tracings; • Zebrafish (<i>Danio rerio</i>) ○ Maintenance, breeding and manipulation of wild-type and knockout zebrafish lines; ○ Genomic DNA isolation from zebrafish; ○ CRISPR/Cas9 gene editing method to generate zebrafish knockout mutant lines; ○ Microinjection of zebrafish eggs; ○ DanioVision system for behavioral analysis.
Molecular biology	PCR, RT-PCR, Western blot, gel shift, binding assay, in-situ hybridization.
Cell biology and microscopy	• Fixation, cutting sections with vibratome, freezing microtome and cryostat, immunohistochemistry: immunoenzymatic and immunofluorescence); • Tissue clearing methods; • Light and confocal microscopy.
Statistics	Good knowledge of parametric and non-parametric tests commonly used in biomedical research (univariate and multivariate ANOVA, Mixed-model ANOVA, Student t-test, Chi squared etc...).
Computer skills	• Operating Systems: Windows and Macintosh OS, and relative MS Office (Word, Excel, PowerPoint) and iWork (Pages, Numbers, Keynote) suites; • Statistic Software: IBM SPSS and GraphPad Prism; • Software for data and images analyses: MATLAB, IMARIS, ImageJ; • Graphic editors: Adobe Photoshop, Corel Draw, Adobe Illustrator; • Others: Endnote.

HONOURS

2017, October	Financial Support for Young Researchers - IBRO-Kemali Mediterranean School Rabat, Marocco
2015, October	Travel grant - S.I.N.S. (Società Italiana di Neuroscienze)

CONTRIBUTIONS TO SCIENCE

ARTICLES

- 1) Astone M., **Tesoriero C.**, Schiavone M., Facchinello N., Tiso N., Argenton F., Vettori A. Wnt/ β -Catenin Signaling Regulates Yap/Taz Activity during Embryonic Development in Zebrafish. *Int. J. Mol. Sci.* 2024, 25, doi: [10.3390/ijms251810005](https://doi.org/10.3390/ijms251810005)
- 2) Akyürek E.E., Greco F., **Tesoriero C.**, Dalla Barba F., Carotti M., Gorni G., Sandonà D., Vettori A., Sacchetto R. *The Accordion zebrafish tq206 mutant in the assessment of a novel pharmaceutical approach to Brody Myopathy.* *Int. J. Mol. Sci.* 2024, 25 (17), 9229 doi: [10.3390/ijms25179229](https://doi.org/10.3390/ijms25179229)
- 3) Pesante G., **Tesoriero C.**, Cadoria E., Andreolli M., Lampis S., Vettori A., Frison N. *Valorisation of agricultural residues into Thauera sp. Sel9 microbial proteins for aquaculture.* *Environ. Technol. Innov.* 2024, 36, 103772 <https://doi.org/10.1016/j.eti.2024.103772>
- 4) **Tesoriero C.**, Greco F., Cannone E., Ghirotto F., Facchinello N., Schiavone M., Vettori A. *Modeling human muscular dystrophies in Zebrafish: mutant lines, transgenic fluorescent biosensors, and phenotyping assays.* *Int. J. Mol. Sci.* 2023, 24(9), 8314 <https://doi.org/10.3390/ijms24098314>
- 5) Pesante G., Zuliani A., Cannone E., Greco F., **Tesoriero C.**, Vettori A., Frison N. *Biological conversion of agricultural residues into microbial proteins for aquaculture using PHA-producing mixed microbial cultures.* *J. Clean. Prod.* 2022, 378(10), 134554 <https://doi.org/10.1016/j.jclepro.2022.134554>
- 6) Olivera G.C., Vetter L., **Tesoriero C.**, Del Gallo F., Hedberg G., Basile J., Rottenberg M.E. *Role of T cells during the cerebral infection with Trypanosoma brucei.* *Plos Negl Trop Dis*, 2021, e0009764 <https://doi.org/10.1371/journal.pntd.0009764>
- 7) Rossini L., De Santis D., Mauceri R.R., **Tesoriero C.**, Bentivoglio M., Maderna E., Maiorana A., Deleo F., de Curtis M., Tringali G., Cossu M., Tumminelli G., Bramerio M., Spreafico R., Tassi L., Garbelli R. *Dendritic pathology, spine loss and synaptic reorganization in human cortex from epilepsy patients.* *Brain*, 2021, 144(1):251-265 <https://doi.org/10.1093/brain/awaa387>
- 8) Padovani L., **Tesoriero C.**, Vyssotski A., Bentivoglio M., Chiamulera C. *Hippocampal gamma oscillations by sucrose instrumental memory retrieval in rats across sleep/wake cycle.* *Neurosci Lett.*, 2020, 16; 135255 <https://doi.org/10.1016/j.neulet.2020.135255>
- 9) Yuniati L., Lauriola A., Gerritsen M., Abreu S., Ni E., **Tesoriero C.**, Onireti J.O., Low T.Y., Heck A.J.R., Vettori A., Cardozo T., Guardavaccaro D. *Ubiquitylation of the ER-Shaping Protein Lunapark via the CRL3^{KLHL12} Ubiquitin Ligase Complex.* *Cell Rep.*, 2020, 31:107664 <https://doi.org/10.1016/j.celrep.2020.107664>
- 10) Rossini P.M., Di Iorio R., Bentivoglio M., Bertini G., Ferreri F., Gerloff C., Ilmoniemi R.J., Miraglia F., Nitsche M.A., Pestilli F., Rosanova M., Shirota Y., **Tesoriero C.**, Ugawa Y., Vecchio F., Ziemann U., Hallett M. *Methods for analysis of brain connectivity: An IFCN-sponsored review.* *Clin Neurophysiol.*, 2019, 130:10 <https://doi.org/10.1016/j.clinph.2019.06.006>

- 11) Bentivoglio M., Cotrufo T., Ferrari S., **Tesoriero C.**, Mariotto S., Bertini G., Berzero A. and Mazzarello P. *The original histological slides of Camillo Golgi and his discoveries on neuronal structure*. Front Neuroanat., 2019, 13:3 <https://doi.org/10.3389/fnana.2019.00003>
- 12) **Tesoriero C.***, Del Gallo F. *, Bentivoglio M. *Sleep and brain infections*. Brain Res Bull. 2019, 145:59-74. <https://doi.org/10.1016/j.brainresbull.2018.07.002>
* joint authorship
- 13) **Tesoriero C.**, Xu YZ., Mumba Ngoyi D., Bentivoglio M. *Neural damage in experimental Trypanosoma brucei gambiense infection: the suprachiasmatic nucleus*. Front Neuroanat. 2018, 12:6
<https://doi.org/10.3389/fnana.2018.00006>
- 14) Laperchia C.*, **Tesoriero C.***, Seke-Etét P.F., La Verde V., Colavito V., Grassi-Zucconi G., Rodgers J., Montague P., Kennedy P. G. E., Bentivoglio M. *Expression of interferon-inducible chemokines and sleep/wake changes during early encephalitis in experimental African trypanosomiasis*. PLoS Negl Trop Dis. 2017, 11(8) <https://doi.org/10.1371/journal.pntd.0005854>
* joint authorship
- 15) **Tesoriero C.***, Codita A. *, Zhang M-D. *, Cherninskyi A., Karlsson H., Grassi-Zucconi G., Bertini G., Harkany T., Ljungberg K., Liljeström P., Hokfelt T. GM, Bentivoglio M., Kristensson K. *H1N1 influenza virus induces narcolepsy-like sleep disruption and targets sleep-wake regulatory neurons in mice*. Proc Natl Acad Sci USA 2016, 113: E368-77 <https://doi.org/10.1073/pnas.1521463112>
* joint authorship
- 16) Colavito V., **Tesoriero C.**, Wirtu A.T., Grassi-Zucconi G., Bentivoglio M. *Limbic thalamus and state-dependent behavior: the paraventricular nucleus of the thalamic midline as a node in circadian and sleep/wake-regulatory networks*. Neurosci. Biobehav. Rev.2015, 54:3-17
<https://doi.org/10.1016/j.neubiorev.2014.11.021>

ABSTRACT AND ORAL PRESENTATIONS

Tesoriero C., Cannone E., Greco F., Ghirotto F., Targa G., Santandrea E., Cambiaghi M., Vettori A. *Histone Deacetylase (HDAC) Inhibitors: a putative therapeutic target for myoclonic-astatic epilepsy*. SLC6A1 Connect International Scientific Symposium, 2024, Los Angeles, California

Tesoriero C., Cannone E., Greco F., Ghirotto F., Targa G., Cambiaghi M., Vettori A. *SLC6A1-knockout zebrafish as a model for myoclonic-astatic epilepsy*. AES conference (American Epilepsy Society), 2024, Los Angeles, California

Tesoriero C., *SLC6A1 KO ZEBRAFISH MODEL: an innovative tool to identify new therapeutical approaches for myoclonic-astatic epilepsy*. 7th Brayn conference (Brainstorming research assembly for young neuroscientists), 2024, Verona, Italy

Tesoriero C., *Investigating the pathogenetic mechanisms of the SLC6A1-associated disorders by zebrafish knockout models*. 69th congress of GEI (Società di Biologia dello Sviluppo e della Cellula), 2024, Naples, Italy

Tesoriero C.; Cannone E; Greco F; Ghirotto F; Vettori A. *Slc6a1 knockout zebrafish mutant as an innovative tool for studying myoclonic-astatic epilepsy*. 4th Italian Zebrafish Meeting, 2024, Palermo, Italy

Tesoriero C., *SLC6A1 KO ZEBRAFISH MODEL: an innovative tool to unveil the pathogenetic mechanisms of the myoclonic-astatic epilepsy*. 66th congress of GEI (Società di Biologia dello Sviluppo e della Cellula), on-line congress

Tesoriero C., Corghi F., Azeez I.A., Del Gallo F., Murana E., Grassi-Zucconi G., Bertini G., Bentivoglio M. *The timing of microglia: day/night variations in basal conditions*. 18th congress of SINS (Società Italiana di Neuroscienze), 2019, Perugia, Italy

Tesoriero C., Azeez I.A., Laperchia C., Corghi F., Jaupaj L., Finardi A., Furlan R., Grassi-Zucconi G., Bentivoglio M. *Glial plasticity: diurnal changes of microglia in basal conditions*. 17th congress of SINS (Società Italiana di Neuroscienze), 2017, Ischia, Italy

Tesoriero C., Lorenzetto E., Bentivoglio M. *Can the nose interfere with sleep and wake regulation? The peptidergic connectome of the olfactory bulb*. 10th FENS, 2016, Copenhagen, Denmark

Tesoriero C., Lorenzetto E., Laperchia C., Kristensson K., Bentivoglio M. *The olfactory bulb: the shortcut in the route leading from the nose to sleep/wake-regulatory neurons*. 23rd congress of the ESRs (European Sleep and Research Society), 2016, Bologna, Italy

Tesoriero C., *From the nose to the brain: narcolepsy-like sleep-wake changes in a murine model of influenza A viral infection*. National meeting of PhD Students in Neuroscience "New perspectives in Neuroscience: research results of young Italian neuroscientists", 2015 Naples, Italy

Tesoriero C., Laperchia C., Colavito V., La Verde V., Grassi-Zucconi G., Rogers J., Kennedy P.G.E., Montague P., Bentivoglio M. *CXCL-10 and sleep changes as brain disease biomarkers in experimental sleeping sickness*. 16th congress of SINS (Società Italiana di Neuroscienze), 2015, Cagliari, Italy

Tesoriero C., *Orexinergic innervation of the olfactory bulb: a link between the nose and sleep-wake regulatory hypothalamic neurons*. 25th congress of GISN (Gruppo Italiano per lo Studio della Neuromorfologia), 2015, Roma, Italy

Tesoriero C., Codita A., Colavito V., Zhang M-D., Grassi-Zucconi G., Karlsson H., Hökfelt T., Bentivoglio M., Kristensson K. *Sleep and influenza A viral infections in murine models*. 9th FENS, 2014, Milan, Italy

Tesoriero C., *Sleep changes and sleep/wake neurons in a murine model of influenza A viral infection*. 24th congress of GISN (Gruppo Italiano per lo Studio della Neuromorfologia), 2014, Bologna, Italy

Tesoriero C., Azeez I.A., Corghi F., Del Gallo F., Bertini G., Bentivoglio M. *Daily fluctuation of Glia*. Italian Journal of Anatomy and Embryology., 123 (1) Supplement: 214

Tesoriero C., Lorenzetto E., Laperchia C., Bentivoglio M. *Peptidergic innervation of the olfactory bulb: a sleep/wake-regulatory route through the nose*. Italian Journal of Anatomy and Embryology., 121 (1) Supplement: 37. DOI: <http://dx.doi.org/10.13128/IJAE-21674>

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ASSISTANT SUPERVISOR

2017-present	Supervision of Bachelors, Masters and PhD students for their internship and/or thesis at the University of Verona		
	Filippo Corgi - Leijd Jaupaj	Internship for MSc degree	2017
	Anna Canaglia - Leonardo Mohamed	Internship for MSc degree	2018
	Elena Cannone - Laura Masin – Erika Marletta	Internship for MSc degree	2019
	Elena Barusolo – Francesco Ghirotto – Richard Huot Pozzetto	Internship for BSc degree	2020
	Giulia Gornia	Internship for MSc degree	2021
	Emma Cadoria	Internship for MSc degree	2022
	Emily Perbellini – Tarcisio Michele Tampu	Internship for BSc degree	2023
	Francesca Greco	PhD Student	2023
	Cristian Bonomo	Internship for MSc degree	2024
	Chiara Forni – Caterina Sponza	Internship for MSc degree	2025
2017-2021	Member of the examination board for the “Biotechnology in Neuroscience” course at the MSc in Molecular and Medical Biotechnology, University of Verona		

Verona, 03/06/2025

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