

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.1 posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera a) della Legge 240/2010 per il settore concorsuale 05/D1 - FISILOGIA, settore scientifico-disciplinare BIO/09 - FISILOGIA presso il Dipartimento di DIPARTIMENTO DI FISIOPATOLOGIA MEDICO-CHIRURGICA E DEI TRAPIANTI

(avviso bando pubblicato sulla G.U. n. 51 del 28/06/2019) Codice concorso 4043

[Francesca Talpo] CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	TALPO
NOME	FRANCESCA
DATA DI NASCITA	[27, aprile, 1985]

**Research
Experience**

October 2017
to date

Postdoctoral Assistant (assegno di ricerca)

University of Pavia

Dept. Biology and Biotechnology "L. Spallanzani" – Toselli & Biella Lab

Via Forlanini 6, 27100 Pavia (PV) (Italy)

RESEARCH FIELD

Electrophysiological patch-clamp recordings on brain slices of mice/rats and on cell cultures aimed to investigate:

1. Functional differentiation of human-derived iPSCs into striatal medium-sized spiny neuron and their integration in neuronal circuits after transplantation in brain-injured immunodeficient rats;
2. Altered functionality of striatal interneurons in mouse models of Huntington's disease.

September 2016 –
May 2017

Postdoctoral Assistant

Yale University

School of Medicine – Dept Neuroscience – Sestan Lab

333 Cedar Street, 06510 New Haven (CT) (USA)

RESEARCH FIELD

1. Development of electrophysiology for use as a resource in the Sestan Lab.

2. Electrophysiological patch-clamp recordings in vitro and ex vivo on different animal models (mice, pigs, monkeys) for neurodevelopmental studies.

3. Electrophysiological patch-clamp recordings on cell cultures to test stem cells functional differentiation into specific neurons.

May 2015 –
April 2016

Postdoctoral Assistant (assegno di ricerca)

University of Milano-Bicocca

School of Medicine and Surgery – Sancini Lab

Via Cadore 48, 20900 Monza (MB) (Italy)

RESEARCH FIELD

Electrophysiological patch-clamp recordings on brain slices of mice/rats and on cell cultures aimed to investigate:

1. Altered functionality of striatal medium-sized spiny neurons in mouse models of Huntington's disease;
2. Functional differentiation of human-derived stem and fetal cells into striatal medium-sized spiny neurons;
3. Oxytocinergic modulation of the hippocampus.

March 2013 – April 2015	<p><i>Postdoctoral Assistant (borsa di ricerca)</i></p> <p><i>University of Pavia</i> <i>Dept. Biology and Biotechnology "L. Spallanzani" – Toselli & Biella Lab</i> <i>Via Forlanini 6, 27100 Pavia (PV) (Italy)</i></p> <p>RESEARCH FIELD Electrophysiological patch-clamp recordings on brain slices of mice/rats and on cell cultures aimed to investigate:</p> <ol style="list-style-type: none"> 1. Functional differentiation of human-derived stem and fetal cells into striatal medium-sized spiny neurons; 2. Role of the Rac proteins in the brain: epilepsy and anomalies caused by the absence of Rac proteins in the hippocampus and neocortex; 3. Muscarinic modulation of the perirhinal cortex (PRC) and resonance properties of the PRC neurons.
November 2009 – October 2012	<p><i>PhD student</i></p> <p><i>University of Pavia</i> <i>Dept. Physiological-Pharmacological, Cellular, and Molecular Sciences – Toselli & Biella Lab</i> <i>Via Forlanini 6, 27100 Pavia (PV) (Italy)</i></p> <p>RESEARCH FIELD Electrophysiological patch-clamp recordings on brain slices of mice/rats and on cell cultures aimed to investigate:</p> <ol style="list-style-type: none"> 1. Role of the Rac proteins in the brain: epilepsy and anomalies caused by the absence of Rac proteins in the hippocampus and neocortex; 2. Functional differentiation of human-derived stem and fetal cells into striatal medium-sized spiny neurons; 3. Muscarinic modulation of the perirhinal cortex (PRC) and resonance properties of the PRC neurons.
September 2008 – September 2009	<p><i>Master's thesis internship</i></p> <p><i>University of Pavia</i> <i>Dept. Physiological-Pharmacological, Cellular, and Molecular Sciences</i> <i>Via Forlanini 6, 27100 Pavia (PV) (Italy)</i></p> <p>RESEARCH FIELD Electrophysiological patch-clamp recordings on brain slices of mice/rats and on cell cultures aimed to investigate the muscarinic modulation of the perirhinal cortex (PRC) and the resonance properties of the PRC neurons.</p>
September 2006 – July 2007	<p><i>Bachelor's thesis internship</i></p> <p><i>IRCCS Policlinico San Matteo</i> <i>Dept. Pediatric Sciences - Research Laboratories</i> <i>Viale Camillo Golgi 19, 27100 Pavia (PV) (Italy)</i></p> <p>RESEARCH FIELD Medical diagnosis. Molecular analysis of donor/recipient chimerism in pediatric patients after hematopoietic stem cells transplantation.</p>
Career Breaks	
7 January 2019 – 15 June 2019	<p><i>Maternity leave</i></p>

Education

February 11, 2013

Doctor of Philosophy degree in Physiology and Neuroscience (EQF 8)

University of Pavia, Pavia, Italy

Thesis title: *Electrophysiological analysis of the role of Rac1 and Rac3 in the development of the hippocampal circuit*

Supervisor: Prof. Mauro Toselli

September 14, 2009

Master's degree in Neurobiology (EQF 7) – graduated with honors

University of Pavia, Pavia, Italy

Thesis title: *Effect of the muscarinic modulation on GABAergic interneurons of the mouse perirhinal cortex*

Supervisor: Prof. Gerardo Biella

July 27, 2007

Bachelor's degree in Biotechnology (EQF 6) – graduated with honors

University of Pavia, Pavia, Italy

Thesis title: *Analysis of hematopoietic reconstitution in a pediatric patient undergoing allogeneic transplantation of stem cells obtained from two umbilical cord blood units, one of which propagated ex vivo*

Supervisor: Prof. Daniela Montagna

Language Skills

Mother tongue

Italian

Other languages

Fluent English

Basic French

Publications

h-index: 5 (source: Scopus)

IN EXTENSO

- 1) Maniezzi C*, Talpo F*, Spaiardi P, Toselli M, Biella G (2019 May 7). Oxytocin Increases Phasic and Tonic GABAergic Transmission in CA1 Region of Mouse Hippocampus. *Front Cell Neurosci.*, 13:178. doi: 10.3389/fncel.2019.00178. eCollection 2019. Cited by 0; Journal IF2018: 3.900
***co-first authors**
- 2) Vezzoli E*, Caron I*, Talpo F, Besusso D, Conforti P, Battaglia E, Sogne E, Falqui A, Petricca L, Verani M, Martufi P, Caricasole A, Bresciani A, Cecchetti O, Rivetti di Val Cervo P, Sancini G, Riess O, Nguyen H, Seipold L, Saftig P, Biella G, Cattaneo E, Zuccato C (2019 May 6). Inhibiting pathologically active ADAM10 rescues synaptic and cognitive decline in Huntington's disease. *J Clin Invest.*, 130:2390-403. doi: 10.1172/JCI120616. eCollection 2019 May 6. Cited by 2; Journal IF2018: 12.282
***co-first authors**

- 3) Vrselja Z*, Daniele SG*, Silbereis J, Talpo F, Morozov YM, Sousa AMM, Tanaka BS, Skarica M, Pletikos M, Kaur N, Zhuang ZW, Liu Z, Alkawadri R, Sinusas AJ, Latham SR, Waxman SG, Sestan N (2019 Apr). Restoration of brain circulation and cellular functions hours post-mortem. *Nature*, 568(7752):336-43.
doi: 10.1038/s41586-019-1099-1. Epub 2019 Apr 17.
Cited by 8; Journal IF2018: 41.577
*co-first authors
This publication received great international media coverage (e.g. The New York Times, The Washington Post, The Guardian, Daily Mail, ...)
- 4) Dell'Anno MT*, Wang X*, Onorati M*, Li M, Talpo F, Sekine Y, Ma S, Liu F, Cafferty WBJ, Sestan N, Strittmatter SM (2018 Aug 24). Human neuroepithelial stem cell regional specificity enables spinal cord repair through a relay circuit. *Nat Commun.*, 9(1):3419.
doi: 10.1038/s41467-018-05844-8.
Cited by 0; Journal IF2018: 11.880
*co-first authors
- 5) Binini N*, Sancini G*, Villa C, Magro RD, Sansoni V, Rusconi R, Mantegazza M, Grioni D, Talpo F, Toselli M, Combi R (2017 Dec 15). Identification of two mutations in cis in the SCN1A gene in a family showing genetic epilepsy with febrile seizures plus (GEFS+) and idiopathic generalized epilepsy (IGE). *Brain Res.*, 1677:26-32.
doi: 10.1016/j.brainres.2017.09.023. Epub 2017 Sep 23.
Cited by 2; Journal IF2017: 3.125
*co-first authors
- 6) Pennucci R*, Talpo F*, Astro V, Montinaro V, Morè L, Cursi M, Castoldi V, Chiaretti S, Bianchi V, Marenga S, Cambiaghi M, Tonoli D, Leocani L, Biella G, D'Adamo P, de Curtis I (2016 Feb). Loss of Either Rac1 or Rac3 GTPase Differentially Affects the Behavior of Mutant Mice and the Development of Functional GABAergic Networks. *Cereb Cortex*, 26:873-90.
doi: 10.1093/cercor/bhv274. Epub 2015 Nov 17.
Cited by 9; Journal IF: 6.559
*co-first authors
- 7) Onorati M*, Castiglioni V*, Biasci D, Cesana E, Menon R, Vuono R, Talpo F, Goya RL, Lyons PA, Bulfamante GP, Muzio L, Martino G, Toselli M, Farina C, Barker RA, Biella G, Cattaneo E (2014 Dec). Molecular and Functional Definition of the Developing Human Striatum. *Nat Neurosci.*, 17(12):1804-15.
doi: 10.1038/nn.3860. Epub 2014 Nov 10.
Cited by 29; Journal IF2014: 16.095
*co-first authors
- 8) Vaghi V, Pennucci R, Talpo F, Corbetta S, Montinaro V, Barone C, Croci L, Spaiardi P, Consalez GG, Biella G, de Curtis I (2014 May). Rac1 and Rac3 GTPases Control Synergistically the Development of Cortical and Hippocampal GABAergic Interneurons. *Cereb Cortex*, 24(5):1247-58.
doi: 10.1093/cercor/bhs402. Epub 2012 Dec 20.
Cited by 14; Journal IF2014: 8.665
- 9) Delli Carri A*, Onorati M*, Lelos J, Castiglioni V, Faedo A, Menon R, Camnasio S, Vuono R, Spaiardi P, Talpo F, Toselli M, Martino G, Barker RA, Dunnett SB, Biella G, Cattaneo E (2013 Jan 15). Developmentally coordinated extrinsic signals drive human pluripotent stem cell differentiation toward authentic DARPP-32+ medium-sized spiny neurons. *Development*, 140(2):301-12.
doi: 10.1242/dev.084608.
Cited by 107; Journal IF2013: 6.273
*co-first authors

ABSTRACTS & ORAL COMMUNICATIONS

- 1) Valenza M, Birolini G, Di Paolo E, Vezzoli E, Maniezzi C, Talpo F, Biella G, Ruozi B, Tosi G, Cattaneo E. "Translational potential of cholesterol supplementation-based strategies for huntington's disease". EHDN 2018 Plenary Meeting. Vienna, 14-16 September 2018.
POSTER

Published as:

114 Translational potential of cholesterol supplementation-based strategies for huntington's disease. *Journal of Neurology, Neurosurgery & Psychiatry* 2018; 89:A93.

- 2) Talpo F, Binini N, Maniezzi C, Pedrazzoli M, Ramat S, Yanagawa Y, Toselli M, Biella G. "Membrane resonance in pyramidal neurons and GABAergic interneurons of the mouse perirhinal cortex". 11th FENS Forum of Neuroscience. Berlin (Germany), 7-11 July 2018.
POSTER
- 3) Maniezzi C, Talpo F, Cesana E, Conforti P, Besusso D, Balsamo G, Biella G, Cattaneo E, Toselli M. "Human pluripotent stem cells towards striatal medium spiny neurons in physiology and pathology: an electrophysiological point of view". 11th FENS Forum of Neuroscience. Berlin (Germany), 7-11 July 2018.
POSTER
- 4) Talpo F, Zuccato C, Toselli M, Biella G. "Rescuing the corticostriatal synaptic impairments in two mouse models of Huntington's Disease (HD)". Life Science 2018 (2nd Joint Annual Symposium of the Departments of Biology and Biotechnology, Molecular Medicine and CNR Institute of Molecular Genetics). Pavia (Italy), 20-22 June 2018.
ORAL COMMUNICATION
- 5) 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". 68th SIF National Congress (The Physiological Society of Italy). Pavia (Italy), 6-8 September 2017.
POSTER
- 6) 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)". 68th SIF National Congress (The Physiological Society of Italy). Pavia (Italy), 6-8 September 2017.
POSTER
- 7) Talpo F, de Curtis I, Pennucci R, Astro V, Biella G. "Lowering of the epileptogenic threshold in mouse models lacking Rac1 and Rac3 GTPases in neurons". 67th SIF National Congress (The Physiological Society of Italy). Catania (Italy), 21-23 September 2016.
ORAL COMMUNICATION
- 8) Maniezzi C, Talpo F, Spaiardi P, Petrella M, Tamamaki N, Biella G, Toselli M. "Oxytocin modulates phasic and tonic GABAA receptor-mediated inhibition of firing in CA1 pyramidal cells". 10th FENS Forum of Neuroscience. Copenhagen (Denmark), 2-6 July 2016.
POSTER
- 9) Biella G, Talpo F, Zuccato C, Cattaneo E, Sancini G, Toselli M. "Impairment of cortico-striatal glutamatergic synapses in two mouse models of Huntington's Disease (HD)". XVI National Congress of the Italian Society of Neuroscience. Cagliari (Italy), 8-11 October 2015.
POSTER
- 10) Talpo F, Zuccato C, Cattaneo E, Sancini G, Toselli M, Biella G. "Impairment of cortical inputs towards striatal medium-spiny neurons and fast-spiking GABAergic interneurons in two mouse models of Huntington's Disease (HD)". 66th SIF National Congress (The Physiological Society of Italy). Genoa (Italy), 16-18 September 2015.
POSTER
- 11) Talpo F, de Curtis I, Pennucci R, Astro V, Biella G. "Rac1 and Rac3 GTPases influence the development of the hippocampal GABAergic circuits". 66th SIF National Congress (The Physiological Society of Italy). Genoa (Italy), 16-18 September 2015.
POSTER
- 12) Battaglia E, Conforti P, Talpo F, Saftig P, Biella G, Cattaneo E, Zuccato C. "Role of ADAM10 in Huntington's Disease". XVIII Telethon Scientific Convention. Riva del Garda (Italy), 9-11 March 2015.
POSTER
- 13) Cesana E, Talpo F, Bina L, Cobelli F, Motta B, Castiglioni V, Onorati M, Conforti P, Cattaneo E, Toselli M, Biella G. "Comparative functional evaluation of medium-sized spiny neurons differentiated from human embryonic- and induced- stem cells". 65th SIF National Congress (The Physiological Society of Italy). Anacapri (Italy), 28-30 September 2014.
ORAL COMMUNICATION
- 14) Cesana E, Talpo F, Bina L, Cobelli F, Motta B, Castiglioni V, Onorati M, Delli Carri A, Cattaneo E, Toselli M, Biella G. "Functional characterization of medium-sized spiny neurons derived from human embryonic stem cells and human fetal cells". 9th FENS Forum of European Neuroscience. Milan (Italy), 5-9 July 2014.
POSTER

- 15) Macco R, Pennucci R, Vaghi V, Talpo F, Croci L, Morè L, Botta M, Biella G, Consalez G, D'Adamo P, de Curtis I. "Role of Rac GTPases in the development of cortical GABAergic interneurons". 9th FENS Forum of European Neuroscience. Milan (Italy), 5-9 July 2014.
POSTER
- 16) Binini N, Maniezzi C, Talpo F, Yanagawa Y, Spaiardi P, Toselli M, Biella G. "Resonance properties of the perirhinal neurons in the mouse". 9th FENS Forum of European Neuroscience. Milan (Italy), 5-9 July 2014.
POSTER
- 17) Talpo F, Cesana E, Onorati M, Castiglioni V, Vuono R, Barker RA, Cattaneo E, Toselli M, Biella G. "Electrophysiological characterization of human cortical and striatal primary neurons". XV National Congress of the Italian Society of Neuroscience. Rome (Italy), 3-5 October 2013.
POSTER
- 18) Binini N, Talpo F, Spaiardi P, Maniezzi C, Toselli M, Biella G. "Resonance, oscillations and muscarinic modulation in the mouse perirhinal cortex". XV National Congress of the Italian Society of Neuroscience. Rome (Italy), 3-5 October 2013.
POSTER
- 19) Biella G, Onorati M, Cesana E, Talpo F, Castiglioni V, Vuono R, Toselli M, Barker RA, Cattaneo E. "Functional benchmarking of human fetus-derived cortical and striatal primary neurons". 11th Annual Meeting ISSCR (International Society for Stem Cell Research). Boston (MA, USA), 12-15 June 2013.
POSTER
- 20) Talpo F, Spaiardi P, Biella G, Chini B, Toselli M. "Oxytocin modulates a class of hippocampal GABAergic interneurons in mice". 63th SIF National Congress (The Physiological Society of Italy). Verona (Italy), 21-23 September 2012.
POSTER
- 21) Cesana E, Spaiardi P, Talpo F, Delli Carri A, Onorati M, Toselli M, Cattaneo E, Biella G. "Electrophysiological characterization of human pluripotent stem cells differentiated towards authentic fully functional medium spiny neurons". 63th SIF National Congress (The Physiological Society of Italy). Verona (Italy), 21-23 September 2012.
POSTER
- 22) Talpo F, Spaiardi P, Biella G, Chini B, Toselli M. "Comparison of GABAergic synaptic activity in the hippocampus of wild-type and oxytocin receptor null mice". 8th FENS Forum of European Neuroscience. Barcelona (Spain), 14-18 July 2012.
POSTER
- 23) Pennucci R, Vaghi V, Talpo F, Barone C, Montinaro V, D'Adamo P, Biella G, de Curtis I. "Rac1 and Rac3 GTPases regulate the development of specific populations of cortical and hippocampal interneurons". 8th FENS Forum of European Neuroscience. Barcelona (Spain), 14-18 July 2012.
POSTER
- 24) Talpo F, Spaiardi P, Toselli P, de Curtis I, Biella G. "Analysis of the hyperexcitability of CA3 pyramidal neurons in a Rac1^N/Rac3^{KO} knock-out mouse model". 62nd SIF National Congress (The Physiological Society of Italy). Sorrento (Italy), 25-27 September 2011.
POSTER
- 25) Talpo F, Spaiardi P, Toselli M, de Curtis I, Biella G. "Analysis of the Hyperexcitability of CA3 Pyramidal Neurons in a Mouse-Model Presenting the Inactivation of Rac1 and Rac3 GTPases." International School of Biophysics "Antonio Borsellino". EMBO/FEBS Lecture Course on Channels and Transporters. Erice (Italy), 11-17 May 2011.
POSTER
- 26) Talpo F, Spaiardi P, Marinoni A, Savazzi P, Toselli M, Favalli L, Biella G. "Muscarinic modulation of the perirhinal cortex: effects on GABAergic interneurons and pyramidal cells". 61st SIF National Congress (The Physiological Society of Italy). Varese (Italy), 15-17 September 2010.
POSTER
- 27) Biella G, Yanagawa Y, Talpo F, Toselli M, Spaiardi P. "Muscarinic effects on GABAergic and pyramidal neurons of the mouse perirhinal cortex". 7th FENS Forum of European Neuroscience. Amsterdam (Netherlands), 3-7 July 2010.
POSTER

- 28) Spaiardi P, Talpo F, Toselli M, Biella G, Marinoni A, Savazzi P, Favalli L (2010 Nov). "Analysis of the noise associated to the muscarinic modulation of the mouse perirhinal cortex". The 3rd International Symposium on Applied Sciences in Biomedical and Communication Technologies. Rome (Italy), 7-10 November 2010
ORAL COMMUNICATION

Published as:
Analysis of the noise associated to the muscarinic modulation of the mouse perirhinal cortex. Proceedings of The 3rd International Symposium on Applied Sciences in Biomedical and Communication Technologies 2010. Roma: CTIF, IEEE, p. 1-5, ISBN/ISSN: 9781424481316. doi: 10.1109/ISABEL.2010.5702765.
- 29) Talpo F, Spaiardi P, Marinoni A, Savazzi P, Favalli L, Yanagawa Y, Toselli M, Biella G. "Muscarinic modulation of the mouse perirhinal cortex and associated noise". Annual Meeting of Young Researchers in Physiology. Pisa (Italy), 16-19 June 2010.
POSTER

Invited presentations

- 1) Talpo F. "Cell-specific anatomic and functional impairments in the striatum of two mouse models of Huntington's Disease". University of Pavia (Pavia, Italy), 21 November 2018.
- 2) Talpo F, de Curtis I, Biella G "Rac1 and Rac 3 contribute to build the GABAergic inhibitory network in the mouse hippocampus". 68th SIF National Congress (The Physiological Society of Italy). Pavia (Italy), 6-8 September 2017.
- 3) Talpo F. "Neuronal electrophysiology: how to study the electrical properties of the neurons". Yale University (New Haven, CT, USA), 4 May 2017.
- 4) Talpo F. "Role of the Rac1 and Rac3 proteins in the functional development of the hippocampal GABAergic circuits". University of Pavia (Pavia, Italy), 23 June 2016.
- 5) Talpo F. "Role of the Rac1 and Rac3 GTPases in the development of the hippocampal GABAergic circuits". Congress: Neurogenesis and Neural plasticity – in memory of Elda Scherini. Pavia (Italy), 24 September 2015.
- 6) Talpo F, Toselli M. "Laboratory of voltage-clamp data analysis". School of Physiology and Biophysics 2015: Molecular and cellular biophysics of excitable cells – SIF (The Physiological Society of Italy). Pavia (Italy), 29 June-2 July 2015.
- 7) Talpo F. "Rac1N/Rac3KO mice: a new model of epilepsy". Congress: The First 10 Years of the Master Program in Neurobiology at the University of Pavia. Pavia (Italy), 30 May 2014.

Honors, Grants, and Awards

- 1) From January 2018 to date - FRG (Fondo Ricerca Giovani) Competitive Postdoctoral Fellowship, University of Pavia
Coordination of the project "Dissecting the impairment of cortical inputs towards striatum in a mouse model of Huntington's Disease" (project that involves the collaboration of 5 research groups).
- 2) Form September 2017 to date - Science Crowdfunding and Outreach
I am actively involved in the crowdfunding campaign "The cure within a cell" hosted by "Universitiamo", the University Crowdfunding Platform by UNIPV (<https://universitiamo.eu/en/campaigns/cura-in-cellula/>). Our project raised 73.700 euros until now and received great local and national media coverage (<http://staminaliunipv.wixsite.com/home/blank> - section "Articoli esterni").
- 3) Travel Grant, International School of Biophysics "Antonio Borsellino". EMBO/FEBS Lecture Course on Channels and Transporters (Erice, Italy, 11-17 May 2011).
- 4) Best Poster Award. "62nd SIF National Congress (The Physiological Society of Italy)." (Sorrento, Italy, 25-27 September 2011).
- 5) Best Poster Award. "Annual Meeting of Young Researchers in Physiology" (Pisa, Italy, 16-19 June 2010).

Membership in societies

September 2017 to date

The Physiological Society of Italy (SIF)

Media Coverage

PRESS

Corriere della Sera – interview

https://www.corriere.it/salute/19_aprile_17/cervelli-maiale-riattivati-la-morte-test-sull-uomo-ancora-lontani-6eff4342-6147-11e9-a327-0127d031f6b3.shtml?refresh_ce-cp

Repubblica – interview

https://www.repubblica.it/salute/medicina-e-ricerca/2019/04/17/news/quei_neuroni_riaccesi_dopo_la_morte-224276317/?ref=search

Il Sole 24 Ore – interview

<https://www.ilssole24ore.com/art/la-scientziata-talpo-avanti-la-ricerca-cervello-il-test-yale-maiali-ABIFAfqB>

Il Messaggero – interview

https://www.ilmessaggero.it/salute/ricerca/intervista_cellule_cervello_maiale_riattivate_dopo_morte-4436621.html

Il Mattino – interview

https://www.ilmattino.it/pelo_e_contropelo/intervista_cellule_cervello_maiale_riattivate_dopo_morte-4436632.html

Gazzetta di Parma – interview

https://www.gazzettadiparma.it/archivio/2019/04/17/news/cervelli_di_maiale_riattivati_dopo_la_morte-911284/

La Provincia Pavese – interview

<https://laprovinciapavese.gelocal.it/tempo-libero/2019/04/19/news/riattivato-il-cervello-di-un-maiale-morto-ricercatrice-pavese-protagonista-negli-usa-1.30203282?ref=search>

ANSA – article

http://www.ansa.it/canale_scienza_tecnica/notizie/biotech/2019/04/17/riattivate-dopo-la-morte-cellule-del-cervello-di-maiali_5edd1384-94f6-420d-96ae-5de4948f23e3.html

ADNKRONOS – interview

https://www.adnkronos.com/fatti/cronaca/2019/04/23/cellule-riattivate-dopo-morte-ritorno-alla-vita-fantascienza_qnGy6AZo8mv4FszaxlucNP.html

WIRED – article

<https://www.wired.it/scienza/biotech/2019/04/18/riattivate-cellule-cervello-maiali-morti/>

La Provincia Pavese – article

<https://laprovinciapavese.gelocal.it/tempo-libero/2018/01/13/news/danza-musica-e-ricerca-1.16348512>

La Provincia Pavese – article

<https://laprovinciapavese.gelocal.it/tempo-libero/2017/11/25/news/disegna-le-nostre-cellule-sfida-per-aiutare-la-ricerca-1.16164774>

La Provincia Pavese – article

<https://laprovinciapavese.gelocal.it/tempo-libero/2017/11/15/news/tra-scienza-e-arte-c-e-speranza-per-i-malati-1.16121360>

La Provincia Pavese – article

<https://laprovinciapavese.gelocal.it/pavia/cronaca/2014/11/19/news/malattia-di-huntington-la-cura-e-un-po-piu-vicina-1.10344617>

RADIO

Radio2 GR2 18/04/2019 – interview

Radio3 Scienza – roundtable

<https://www.raipplayradio.it/audio/2019/04/RADIO3-SCIENZA-del-18042019----Al-confine-tra-vita-e-morte-b14143f5-52bf-49cf-b216-2acb40b10c66.html>

TV

Rai Scuola - Nautilus – interview

<https://www.raipplay.it/programmi/memex-nautilus/>

Outreach

- September 28, 2018 Informative desk with puzzles, brain teasers, and optical illusions to explain the mysteries of the brain functionality at the European Researchers Night (Pavia, IT)
- March 6, 2018 Invited presentation at the meeting "Mission impossible: fundraising" organized by Activators Pavia in co-operation with the Unipv Innovation and Startup Europe Week (Pavia, IT)
- From September 2017 to December 2018 Organization of disseminative events for the crowdfunding campaign "The cure within a cell" hosted by "Universitiamo", the University Crowdfunding Platform by UNIPV :
- 10 September 2017: informative desk and books for science at "Festa del Ticino" (Pavia, IT)
 - 23 September 2017: informative desk at "Autunno Pavese" (Pavia, IT)
 - 5 October 2017: volley match VBC Pomì Casalmaggiore vs Volero Zurigo (Cremona, IT)
 - 8 October 2017: lunch at "Bormiadi" (Valdidentro, IT)
 - 22 October 2017: fashion show (Pavia, IT)
 - 10 November 2017: ballet at the Fraschini theater (Pavia, IT)
 - 14 November – 2 December 2017: art exhibition (Pavia, IT)
 - 14 November – 2 December 2017: design exhibition (Pavia, IT)
 - 25 & 26 November 2017: secondary school students' drawings contest (Pavia, IT)
 - 14 January 2018: music and dance show (Siziano, IT)
 - 16 January 2018: concert (Pavia, IT)
 - 3 February 2018: theatrical show (Pavia, IT)
 - 8 February 2018: lunch at Imbersago (Imbersago, IT)
 - 14 April 2018: participation in "La Bellezza della Vita" project promoted by Carrefour-Pavia (Pavia, IT)
 - 6 June 2018: "Burraco" tournament (Pavia, IT)
 - 13 June – 17 June 2018: raku ceramic exhibition (Pavia, IT)
 - 16 June 2018: dance recital (Pavia, IT)
 - 07 October – 17 November 2018: participation in "GraffitiAmoci" project promoted by Carrefour-Pavia (Pavia, IT)
 - 20 October 2018: visit to the UNIPV Museums and Historical Classrooms (Pavia, IT)
 - 20 October 2018: lunch and wine tasting (Pavia, IT)
 - 15 December 2018: concert "The Soul of Guarneri" (Pavia, IT)
- September 27, 2017 Invited presentation at the seminar "The cure within a cell: stem cells against neurodegenerative diseases" organized by the Board of physicians, surgeons and orthodontist of Bergamo (Bergamo, IT)

Didactics

- 1) Assistant Lecturer (*culture della materia*) at the University of Pavia for the course of "Neural basis of behavior and general neuropsychology" (cod. 502342) (M-PSI/02 – Psicobiologia e Psicobiologia fisiologica) – Master's Degree in Neurobiology. (2014 – present)
- 2) Assistant Lecturer (*culture della materia*) at the University of Pavia for the course of "General physiology" (cod. 502241) (BIO/09 – Fisiologia) – Bachelor's Degree in Biological Sciences. (2011 – present)
- 3) Assistant Lecturer (*culture della materia*) at the University of Pavia for the course of "Membrane biophysics and electrophysiology" (cod. 500829) (BIO/09 – Fisiologia) – Master's Degree in Neurobiology, University of Pavia. (2009 – present)

Supervision of students and fellows

- 1) Bachelor's Degree in Biological Sciences (class 2017-2018 – University of Pavia) of Niccolò Mattiello; Thesis title: Electrophysiological characterization of SH-SY5Y cells differentiated in vitro into a functional neuronal phenotype.
Supervisor: Mauro Toselli; Co-advisor: Francesca Talpo
- 2) Master's Degree in Neurobiology (class 2015-2016 – University of Pavia) of Beatrice Badone; Thesis title: Functional impairment of cortical inputs towards striatal cells in two mouse models of Huntington's disease.
Supervisor: Gerardo Biella; Co-advisor: Francesca Talpo

- 3) *Master's Degree in Neurobiology (class 2015-2016 – University of Pavia) of Anna Fontana; Thesis title: Lowering of the epileptogenic threshold in mouse models lacking Rac1 and Rac3 proteins in the nervous system.*
Supervisor: Gerardo Biella; Co-advisor: Francesca Talpo
- 4) *Master's Degree in Neurobiology (class 2014-2015 – University of Pavia) of Beatrice Ferrari; Thesis title: Anatomical and morphological alterations of striatal fast-spiking interneurons in two mouse models of Huntington's disease.*
Supervisor: Mariagrazia Bottone; Co-advisor: Francesca Talpo
- 5) *Bachelor's Degree in Biological Sciences (class 2013-2014 – University of Pavia) of Beatrice Badone; Thesis title: Alterations of the excitatory synaptic input to the striatal neurons in a mouse model of Huntington's disease.*
Supervisor: Gerardo Biella; Co-advisor: Francesca Talpo
- 6) *Master's Degree in Neurobiology (class 2012-2013 – University of Pavia) of Claudia Maniezzi; Thesis title: Resonance, oscillations and muscarinic modulation in the mouse perirhinal cortex.*
Supervisor: Gerardo Biella; Correlator: Francesca Talpo
- 7) *Bachelor's Degree in Biological Sciences (class 2011-2012 – University of Pavia) of Lorenzo Bina; Thesis title: Oxytocin-dependent modulation of a class of GABAergic interneurons in mouse hippocampus.*
Supervisor: Mauro Toselli; Co-advisor: Francesca Talpo
- 8) *Bachelor's Degree in Biological Sciences (class 2011-2012 – University of Pavia) of Federica Di Mauro; Thesis title: Analysis of the susceptibility to epileptiform activity induction in Rac1^N/Rac3^{KO} mice.*
Supervisor: Gerardo Biella; Co-advisor: Francesca Talpo
- 9) *Bachelor's Degree in Biological Sciences (class 2009-2010 – University of Pavia) of Mauro Piemontese; Thesis title: Noise analysis during the cholinergic modulation of the mouse perirhinal neurons.*
Supervisor: Gerardo Biella; Co-advisor: Francesca Talpo

Personal skills

Social skills	<ul style="list-style-type: none"> - Good teaching and training skills derived from the educational experiences and the supervision of students during their thesis internships. - Good dissemination skills derived from the presentation of scientific research results to a non-specialist public in the context of conferences addressed to students, associations of patients and patient's relatives, general population.
Organization skills	<ul style="list-style-type: none"> - Good organization skills derived from both the experimental planning and the management of the laboratory activities. - Good event management skills acquired during the participation in the crowdresearching campaign <i>Universitiamo</i> by UNIPV (promoted by the University of Pavia) with the project "The Cure within a Cell". I organized and managed lots of different events (fashion shows, theater performances, ballets, dissemination conferences, sporting events, ...) aimed at promoting scientific research and disseminating research results.
Technical Skills	<ul style="list-style-type: none"> - Fully competent in the use of the electrophysiological laboratory equipments and the patch-clamp set-up. Excellent command of the intracardiac perfusion procedure and murine brain dissection. Excellent knowledge of the whole-cell patch-clamp technique on isolated cells and brain slices. Full mastery of immunofluorescence techniques on free –floating brain slices. - Fully competent in the use of biological and chemical laboratory instrumentation. Knowledge of the main techniques of chemistry, biochemistry, cell biology, genetics, and microbiology. Knowledge of specific molecular biology techniques: separation of mononuclear cells from whole blood; DNA extraction and purification; DNA amplification by PCR; electrophoresis on polyacrylamide gel.

IT Skills	<ul style="list-style-type: none"> - Good knowledge of Windows operating system. - Good knowledge of Microsoft Office (Word, Excel, and PowerPoint) and OpenOffice. - Good knowledge of the main Internet Browsers and the database Entrez-Pubmed. - Good knowledge of the software for acquisition and data analysis "p-Clamp" (Clampex & Clampfit). - Good knowledge of the software for statistic and data analysis "Microcal Origin". - Good knowledge of the graphics software "Adobe PhotoShop". - Good knowledge of the software for image analysis "ImageJ". - Basic knowledge of the statistic software R. - Basic knowledge of the Matlab programming language.
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Data

12/07/2019

Luogo

San Martino Siccomario (PV)