

PROCEDURA PUBBLICA DI SELEZIONE PER L'ASSUNZIONE DI N. 1 RICERCATORE A TEMPO DETERMINATO, AI SENSI DELL'ART. 24 COMMA 3 LETT. B) DELLA LEGGE N. 240/2010, PER IL SETTORE CONCORSUALE 05/D1 "Fisiologia" - SETTORE SCIENTIFICO-DISCIPLINARE BIO/09 "Fisiologia" - SCUOLA DI Scienze del Farmaco e dei Prodotti della Salute UNIVERSITA' DEGLI STUDI DI CAMERINO, BANDITA CON D.R. PROT. N. 22852 DEL 5 aprile 2022, IL CUI AVVISO È STATO PUBBLICATO SULLA G.U. – IV SERIE SPECIALE - N. 35 DEL 3 maggio 2022

VERBALE N. 2

(Valutazione preliminare dei candidati)

Il giorno 5 ottobre 2022 alle ore 11.00 ha luogo la seconda riunione della procedura riportata in epigrafe, sempre in via telematica, in funzione sempre precauzionale rispetto alla situazione Covid-19. La Commissione, nominata con decreto rettorale Prot. n. 43451 del 27/06/2022, pubblicato sulla Gazzetta Ufficiale – 4° Serie speciale - n. 61 del 2/08/2022, è composta da:

Prof. Marcello Massimini - Presidente

Prof. Paola D'Ascanio - Componente

Prof. Massimo Bramucci – Segretario verbalizzante

e si riunisce al completo per procedere all'esame dei titoli e delle pubblicazioni scientifiche presentati dai candidati.

La Commissione, accertato che i criteri di valutazione fissati nella precedente riunione sono stati resi pubblici per almeno sette giorni, senza che gli uffici amministrativi abbiano comunicato la ricezione di alcuna osservazione, prende nuovamente visione dell'elenco con i nominativi dei candidati, trasmesso dall'Ufficio Concorsi dell'Ateneo, delle pubblicazioni da questi effettivamente inviate e prende atto che i candidati da valutare sono 2, precisamente:

1. Dott.ssa Luisa de Vivo
2. Dott.ssa Valentina Di Biase

La Commissione, quindi, procede a visionare il materiale inviato da ciascun candidato e trasmesso tramite piattaforma informatica, verificando preliminarmente il possesso dei requisiti di partecipazione, di cui all'art. 3 del bando.

Per quanto riguarda le pubblicazioni, la Commissione prende in esame solo quelle corrispondenti all'elenco allegato da ciascun candidato alla domanda di partecipazione alla selezione, nel rispetto del limite massimo indicato nell'art. 1 del bando.

La Commissione, ai fini della presente selezione, prende in considerazione esclusivamente pubblicazioni o testi accettati per la pubblicazione, secondo le norme vigenti, nonché saggi inseriti in opere collettanee e articoli editi su riviste in formato cartaceo o digitale, con esclusione di note interne o rapporti dipartimentali. La tesi di dottorato o di titolo equipollente viene presa in considerazione anche in assenza delle condizioni sopra indicate.

Per la valutazione la Commissione tiene conto dei criteri stabiliti nella seduta preliminare del 19 settembre 2022.

Vengono, quindi, prese in esame le pubblicazioni redatte in collaborazione con i Commissari della presente procedura di valutazione o con i terzi, al fine di valutare l'apporto del candidato.

In ordine alla possibilità di individuare l'apporto dei singoli coautori alle pubblicazioni presentate dal candidato, che risultano svolte in collaborazione con i componenti della Commissione, si precisa quanto segue:

Non ci sono pubblicazioni in comune con i candidati.

La Commissione, terminata la fase dell'enucleazione, tiene conto delle pubblicazioni presentate dai candidati, come risulta dagli elenchi, che vengono allegati al verbale e ne costituiscono parte integrante (**Allegato A al verbale n. 2 – Elenco pubblicazioni**).

La Commissione procede poi all'esame dei titoli presentati dai candidati e riportati nei loro curricula, in base ai criteri individuati nella prima seduta (**Allegato B al verbale n. 2 – Curricula**).

La Commissione procede ad effettuare la valutazione preliminare dei candidati con motivato giudizio analitico sui titoli, sul curriculum e sulla produzione scientifica, ivi compresa la tesi di dottorato.

In merito alla produzione scientifica la Commissione esprime, nel giudizio collegiale, relativamente a ciascun candidato, il grado di creatività ed autonomia (**Allegato C al verbale 2 – Giudizi individuali e giudizi collegiali**).

Alle ore 13:15, accertato che è terminata la fase attinente alla redazione dei giudizi sui candidati, che sono uniti al presente verbale come parte integrante dello stesso, (**Allegato C al verbale n. 2**), la seduta è sciolta e la Commissione unanime decide di aggiornare i lavori alla data del seminario in lingua inglese, ossia al giorno 12 ottobre 2022 ore 11.00.

Il presente verbale è letto, approvato e sottoscritto seduta stante.

Data, 5 ottobre 2022.

LA COMMISSIONE:

Prof. Marcello Massimini (Presidente) v. dichiarazione di adesione

Prof.ssa Paola D'Ascanio (Componente) v. dichiarazione di adesione

Prof. Massimo Bramucci (Segretario)

A handwritten signature in black ink, appearing to be 'M. Bramucci', written over a horizontal line.

Allegato A - Verbale n. 2 – Elenco pubblicazioni

Elenco pubblicazioni Dott.ssa Luisa de Vivo:

1. Nagai H*, de Vivo L*, Marshall W, Tononi G, Cirelli C. Effects of Severe Sleep Disruption on the Synaptic Ultrastructure of Young Mice. *eNeuro* 2021, 8(4).
2. de Vivo L*, Nagai H*, De Wispelaere N, Marshall W, Spano GM, Bellesi M, Nemec K, Schiereck SS, Nagai M, Tononi G and Cirelli C. Evidence for sleep-dependent synaptic renormalization in mouse pups. *Sleep*. 2019, 42(11).
3. Spano GM, Bannings WS, Marshall W, de Vivo L, Bellesi M, Loschky SS, Tononi G, Cirelli C. Sleep deprivation by exposure to novel objects increases synapse density and axon-spine interface in the hippocampal CA1 region of adolescent mice. *J Neuroscience* 2019, 39(34):6613-6625.
4. Bellesi M, de Vivo L, Chini M, Gilli F, Tononi G, Cirelli C. Sleep Loss Promotes Astrocytic Phagocytosis and Microglial Activation in Mouse Cerebral Cortex. *J Neuroscience* 2017, 37(21):5263-5273.
5. Nagai H, de Vivo L, Bellesi M, Ghilardi MF, Tononi G, Cirelli C. Sleep Consolidates Motor Learning of Complex Movement Sequences in Mice. *Sleep*. 2017, 40(2).
6. de Vivo L, Bellesi M, Marshall W, Bushong EA, Ellisman MH, Tononi G, Cirelli C. Ultrastructural evidence for synaptic scaling across the wake/sleep cycle. *Science* 2017, 355(6324):507-510.
7. de Vivo L, Nelson AB, Bellesi M, Noguti J, Tononi G, Cirelli C. Loss of Sleep Affects the Ultrastructure of Pyramidal Neurons in the Adolescent Mouse Frontal Cortex. *Sleep* 2016; 39(4):861-74.
8. Bellesi M, de Vivo L, Tononi G, Cirelli C. Effects of sleep and wake on astrocytes: clues from molecular and ultrastructural studies. *BMC Biology* 2015, 13:66.
9. de Vivo L, Faraguna U, Nelson AB, Pfister-Genskow M, Klapperich ME, Tononi G, Cirelli C. Developmental patterns of sleep slow wave activity and synaptic density in adolescent mice. *Sleep* 2014, 37(4):689-700.
10. de Vivo L, Landi S, Panniello M, Baroncelli L, Chierzi S, Mariotti L, Spolidoro M, Pizzorusso T, Maffei L, Ratto GM. Extracellular matrix inhibits structural and functional plasticity of dendritic spines in the adult visual cortex. *Nature Communications* 2013; 4:1484.
11. de Vivo L, Melone M, Bucci G, Rothstein JD, Conti F. Quantitative analysis of EAAT4 promoter activity in neurons and astrocytes of mouse somatic sensory cortex. *Neurosci Lett*. 2010, 474(1):42-5.
12. de Vivo L, Melone M, Rothstein JD, Conti F. GLT-1 Promoter Activity in Astrocytes and Neurons of Mouse Hippocampus and Somatic Sensory Cortex. *Front Neuroanatomy*. 2010; 3:31.

Elenco pubblicazioni Dott.ssa Valentina Di Biase:

1. Lanzetti S and Di Biase V*. Sma/1 molecules in voltage-gated calcium channel dependent neurological disorders: state-of-the-art and perspectives. *Molecules*, 27(4), 1312 (2022).
2. Bikbaev A, Ciuraszkiewicz-Wojciech A, Heck J, Klatt O, Freund R, Mitlöhner J, Enrile Lacalle S, Sun M, Repetto D, Frischknecht R, Ablinger C, Rohlmann A, Missler M, Obermair GJ, Di Biase V, Heine M. Auxiliary $\alpha 2\alpha 1$ and $\alpha 2\alpha 3$ Subunits of Calcium Channels Drive Excitatory and Inhibitory Neuronal Network Development. *J Neurosci*, 40(25):4824-4841 (2020).
3. Folci A, Steinberger A, Lee B, Stanika R, Scheruebel S, Campiglio M, Ramprecht C, Pelzmann B, Hell JW, Obermair GJ, Heine M, Di Biase V*. Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of Cav1.2 calcium channels in hippocampal neurons. *J Biol Chem*, 293:1040-1053 (2018).
4. Patriarchi T, Qian H, Di Biase V, Malik ZA, Chowdhury D, Price JL, Hammes EA, Buonarati OR, Westenbroek RE, Catterall WA, Hofmann F, Xiang YK, Murphy GG, Chen CY, Navedo MF, Hell JW. Phosphorylation of Cav1.2 an S1928 uncouples the L-type Ca^{2+} channel from the $\beta(2)$ adrenergic receptor. *EMBO Journal*, 35: 1330-1345 (2016).
5. Etemad S, Obermair GJ, Benedetti A, Stanika R, Di Biase V, Burtscher V, Koschak A, Bindreither D, Kofler R, Geley S, Wille A, Lusser A, Flockerzi V, Flucher BE. Differential Neuronal Targeting of a New and Two Known Calcium Channel $\beta 4$ Subunit Splice Variants Correlates with Their Regulation of Gene Expression. *J Neurosci*, 34: 1446-1461, (2014).
6. Campiglio M, Di Biase V, Tuluc P, Flucher BE, Stable incorporation versus dynamic exchange of beta subunits in a native Ca^{2+} channel camp/ex. *J Cell Science*, 126: 2092-2101, (2013).
7. Di Biase V, Tuluc P, Campiglio M, Obermair GJ, Heine M, Flucher BE. Surface Traffic of Dendritic Cav1.2 Calcium Channels in Hippocampal Neurons. *J Neurosci*, 38: 13682-13694 (2011).
8. Obermair GJ, Schlick B, Di Biase V, Subramanyam P, Gebhart M, Baumgartner S, Flucher BE. Reciprocal Interactions Regulate Targeting of Calcium Channel beta Subunits and Membrane Expression of $\alpha 1$ Subunits in Cultured Hippocampal Neurons. *J Biol Chem*, 285: 5776-5791 (2010).
9. Di Biase V, Flucher BE, Obermair GJ. Resolving sub-synaptic compartments with double immunofluorescence labeling in hippocampal neurons. *J Neurosci Methods*, 176: 78-84 (2009).
10. Di Biase V, Obermair GJ, Szabo Z, Altier C, Sanguesa J, Bourinet E, Flucher BE. Stable Membrane Expression of Postsynaptic Cav1.2 Calcium Channel Clusters Is Independent of Interactions with AKAP79/150 and PDZ Proteins, *J Neurosci*, 51: 13845-13855 (2008).
11. Di Biase V*, Franzini-Armstrong C Evolution of skeletal type e-c coupling: a novel means of controlling calcium delivery, *J Cell Biol*, 171: 695-704, (2005).
12. Schredelseker J, Di Biase V, Obermair GJ, Felder TE, Flucher BE, Franzini-Armstrong C, Grabner M The $\beta(1a)$ subunit is essential for the assembly of dihydropyridine-receptor arrays in skeletal muscle, *PNAS*, 47: 17219-17224, (2005).

Curriculum Vitae

PERSONAL INFORMATION

Family name: de Vivo
First name: Luisa
Nationality: Italian

• **CURRENT POSITION**

01/12/2020 – now: Ricercatore a Tempo Determinato (art. 24 comma 3 lett. a, Legge n. 240/2010), SSD BIO/09, School of Pharmacy, University of Camerino, Italy

• **EDUCATION**

02/02/2010 – PhD in Neuroscience
University Politecnica delle Marche, Italy
14/07/2005 - MScR in Marine Biology, 110/110 cum laude
University Politecnica delle Marche, Italy
10/2003 - BS in Marine Biology and Oceanography, 110/110 cum laude
University Politecnica delle Marche, Italy

• **PREVIOUS POSITIONS**

2019-2020 – Independent Research Fellow
School of Physiology, Pharmacology and Neuroscience, University of Bristol, UK
2016- 2017- Assistant Scientist
Department of Psychiatry, University of Wisconsin Madison, WI
2011-2016 - Research Associate
Department of Psychiatry, University of Wisconsin Madison, WI
2010-2011 – Borsa di ricerca Telethon
NEST Laboratory, CNR Nanoscience, Pisa, Italy

• **FELLOWSHIPS AND AWARDS**

2020 Abilitazione Scientifica Nazionale Professore di II fascia nei settori concorsuali: 05/D1 Fisiologia, 05/B2 Anatomia Comparata e Citologia, 05/H2 Istologia
2020 Acknowledgement for "de Vivo L, Bellesi M. The role of sleep and wakefulness in myelin plasticity. *Glia*. 2019;67(11):2142-2152. doi:10.1002/glia.23667 " as the most downloaded paper among those published in *Glia* between January 2018 and December 2019.
2019 Seal of Excellence for the proposal H2020-MSCA-IF-2018 for scoring above 85%.
2017 Altmetric score 931, "High Attention Score compared to outputs of the same age (99th percentile)" and "High Attention Score compared to outputs of the same age and source (98th percentile)" for de Vivo et al. Ultrastructural evidence for synaptic scaling across the wake/sleep cycle, *Science* 2017
2015 F1000 Prime (1000 international Faculty Members) recommendation for "Bellesi M, de Vivo L, Tononi G, Cirelli C. Effects of sleep and wake on astrocytes: clues from molecular and ultrastructural studies. *BMC Biol*. 2015;13:66.
2014 Italian Society of Neuroscience (SfNS) Travel Award, 500€
2010 Member of Society for Neuroscience (SfN)

2008 Swiss Society for Neuroscience Travel Fellowship, 500€
2006 PhD fellowship, University Politecnica delle Marche, 36000 €

- **ONGOING AND PAST RESEARCH SUPORT**

2020-2023 Career Development Award, Armenise-Harvard Foundation." Budget 600000 USD.
Role: PI
2019-2022 Wellcome Trust Seed Award in Science. Budget: 100000 £. Role: PI
2019-2020 BBSRC 18 ALERT Mid-Range Equipment Initiative, 1 year. Budget: 200000 £.
Role: Co-PI

- **SUPERVISION OF STUDENTS AND POSTDOC FELLOWS**

2020-now Co-supervision of 2 PhD students, 1 MScR, School of Pharmacy, University of Camerino, Italy
2019-2020 Supervision of 1 postdoc, 1 MScR student, School of Physiology, Pharmacology and Neuroscience, University of Bristol, UK
2013-2017 Supervision of 10 research assistants, Department of Psychiatry, University of Wisconsin Madison, USA

- **TEACHING**

2020-2021 Microscopy (7hrs), International School of Advanced Studies, University of Camerino
2021-2022 Microscopy (7hrs), International School of Advanced Studies, University of Camerino
2021-2022 Physiology (49hr) CTF course, University of Camerino

- **INSTITUTIONAL RESPONSABILITIES**

2020-2022: Member of Faculty Committee for PhD in "Life and Health Sciences", XXXVI-XXXVII cycles at the International School of Advanced Studies, University of Camerino
May 2022 Polling Station supervisor for "Consiglio Nazionale degli Studenti Universitari", Seggio n.1 Camerino

- **REVIEWING ACTIVITIES**

2021 PhD Dissertation of Giorgio Corsi, Sapienza University of Rome
Since 2018 Member of the editorial Board of *Frontiers in Psychopharmacology*
Since 2019 Member of the editorial Board of *Frontiers in System Neuroscience*
Since 2015 Ad hoc reviewer for Annual Meeting of the Associated Professional Sleep Societies, *Journal of Sleep Research*, *Archives Italiennes de Biologie*

- **MAJOR PAST AND PRESENT COLLABORATIONS**

2013- 2017 Dr. Ellisman, National Center for Microscopy and Imaging Research, University of California San Diego, CA, USA: 3D electron microscopy

2014 – 2017	Prof Bito, University of Tokyo, Department of Neurochemistry, Japan: Arc in the cerebral cortex of sleeping and sleep deprived mice
2014 – 2016	Dr. Koch, Allen Institute for Brain Science, Seattle, USA: sleep deprivation and brain connectivity
2014– 2017	Prof. Ghilardi, CUNY, City College of New York, NY, USA: sleep deprivation and motor learning
2015 -2017	Prof. Gilli, Dartmouth Geisel School of Medicine, Hanover, NH, USA: sleep deprivation and pro- and anti-inflammatory factors
2014 – now	Prof. Tononi and Prof. Cirelli, Department of Psychiatry, University of Wisconsin Madison USA: ultrastructural markers of sleep and wake
2020 - now	Prof. Bellesi, School of Bioscience, University of Camerino: sleep regulation and function
2020 – now	Dr. Richmond and Dr Caramaschi, Bristol Population Health Science Institute, Molecular Epidemiology Unit, University of Bristol, UK: epigenetic changes and the risk of developing alcohol use disorders in adolescents
2021 – now	Prof. Vyazovskiy, Department of Physiology, Anatomy and Genetics, University of Oxford, UK: 3D EM for torpor
2021- now	Prof. Ciccocioppo, School of Pharmacy, University of Camerino: sleep restriction and alcohol drinking in adolescence

• CARREER BREAKS

2013 and 2015: maternity leave

• INVITED TALKS AND SEMINARS

1. "Ultrastructural Sleep". Invited speaker at Pisa Award 15th Edition, 11 minute of Sleep, Pisa IT, May 6-7, 2022.
2. "Adolescent chronic sleep restriction promotes alcohol binge drinking and escalates alcohol consumption in msP rats". Poster presentation at Gordon Research Conference on "Sleep Regulation and Function", Lucca IT, 14-15 March, 2022.
3. "Remodeling of cortical synapses across sleep, wake and sleep loss". Invited speaker at Waterloo Foundation Annual Conference, Cardiff University, May 23, 2019.
4. "Sleep and synaptic homeostasis". Seminar for doctoral candidates, International School of Advanced Studies, University of Camerino, May 17, 2018.
5. "Sleep and plasticity during development". Invited speaker at Clinical Research Priority Program: Sleep and Health, Zurich, February 2, 2018.
6. "Sleep and wake at cortical synapses". Seminar at IMT School of Advanced Studies of Lucca, Italy, December 5, 2017.
7. "Sleep and wake at cortical synapses". Seminar at University of Bristol, School of Physiology, Pharmacology and Neuroscience, July 11, 2017
8. "Looking for the functions of sleep: insights from molecular and ultrastructural studies". Seminar at VIB & KU Leuven Centre for Brain & Disease Research, May 31, 2017
9. "Sleep and synapses: insights from ultrastructural studies". Seminar at Dept. Life Sciences, Imperial College London, May 4, 2017
10. "Can we tell whether a brain cell has been asleep by looking at the ultrastructure of mitochondrial and other cellular organelles?". Keynote speaker at Gordon Research Seminar on "Sleep Regulation and Function", Galveston TX, 2016

11. "Sleep loss promotes astrocytic phagocytosis of synaptic elements in mouse cerebral cortex". Poster presentation at Gordon Research Conference 2016 – Sleep regulation and function
12. "Ultrastructural signatures of sleep and wake in neuronal cell bodies of mouse frontal cortex". Poster presentation at SfN 2014
13. "Chronic sleep restriction increases mitochondrial size in cortical pyramidal neurons of adolescent mice. Poster presentation at FENS 2014
14. "Changes in sleep slow wave activity during adolescence: do they reflect synaptic pruning?" Poster presentation at Sleep-APSS 2013
15. "CSPGs digestion unmasks synaptic plasticity in the adult visual cortex". Poster presentation at SfN 2011
16. GLT-1 expression and Glu uptake in rat cerebral cortex are increased by phencyclidine. Poster presentation at FENS 2008.

• COMPLETE LIST OF PUBLICATIONS

1. Anastasiades PG*, de Vivo L*, Bellesi M, Jones MJ. Adolescent sleep and the foundations of prefrontal cortical development and dysfunction. *Under revision in Progress in Neurobiology*. *First co-authors.
2. Nagai H*, de Vivo L*, Marshall W, Tononi G, Cirelli C. Effects of Severe Sleep Disruption on the Synaptic Ultrastructure of Young Mice. *eNeuro* 2021, 8(4). *First co-authors.
3. Aboufars El Alaoui A, Jackson M, Fabri M, de Vivo L, Bellesi M. Characterization of Subcellular Organelles in Cortical Perisynaptic Astrocytes. *Front Cell Neurosci*. 2021; 14:573944.
4. Bellesi M, de Vivo L**. Structural synaptic plasticity across sleep and wake. *Curr Opin Physiol*. 2020;15:74-81 **corresponding author, invited review
5. de Vivo L*, Nagai H*, De Wispelaere N, Marshall W, Spano GM, Bellesi M, Nemec K, Schiereck SS, Nagai M, Tononi G and Cirelli C. Sleep-dependent synaptic renormalization in mouse pups. *Sleep*. 2019, 42(11):zsz184. *First co-authors
6. Spano GM, Bannings WS, Marshall W, de Vivo L, Bellesi M, Loschky SS, Tononi G, Cirelli C. (2019) Sleep deprivation by exposure to novel objects increases synapse density and axon-spine interface in the hippocampal CA1 region of adolescent mice. *J Neuroscience* 39(34):6613-6625.
7. de Vivo L, Bellesi M. (2019) The role of sleep and wakefulness on myelin plasticity. *Glia* 2019, 67(11):2142-2152.
8. Bellesi M, de Vivo L, Koebe S, Tononi G, Cirelli C. Sleep and Wake Affect Glycogen Content and Turnover at Perisynaptic Astrocytic Processes. *Front Cell Neurosci*. 2018, 12:308.
9. Bellesi M, Haswell JD, de Vivo L, Marshall W, Roseboom PH, Tononi G, Cirelli C. Myelin modifications after chronic sleep loss in adolescent mice. *Sleep*. 2018 41(5).
10. Honjoh S, de Vivo L, Okuno H, Bito H, Tononi G, Cirelli C. Higher Arc Nucleus-to-Cytoplasm Ratio during Sleep in the Superficial Layers of the Mouse Cortex. *Front Neural Circuits*. 2017, 11:60.
11. Bellesi M, de Vivo L, Chini M, Gilli F, Tononi G, Cirelli C. Sleep Loss Promotes Astrocytic Phagocytosis and Microglial Activation in Mouse Cerebral Cortex. *J Neuroscience* 2017, 37(21):5263-5273.
12. Nagai H, de Vivo L, Bellesi M, Ghilardi MF, Tononi G, Cirelli C. Sleep Consolidates Motor Learning of Complex Movement Sequences in Mice. *Sleep*. 2017, 40(2).

13. de Vivo L, Bellesi M, Marshall W, Bushong EA, Ellisman MH, Tononi G, Cirelli C. Ultrastructural evidence for synaptic scaling across the wake/sleep cycle. *Science* 2017 355(6324):507-510.
14. Billeh YN, Rodriguez AV, Bellesi M, Bernard A, de Vivo L, Funk CM, Harris J, Honjoh S, Mihalas S, Ng L, Koch C, Cirelli C, Tononi G. Effects of Chronic Sleep Restriction during Early Adolescence on the Adult Pattern of Connectivity of Mouse Secondary Motor Cortex. *eNeuro* 2016; 3(2).
15. de Vivo L, Nelson AB, Bellesi M, Noguti J, Tononi G, Cirelli C. Loss of Sleep Affects the Ultrastructure of Pyramidal Neurons in the Adolescent Mouse Frontal Cortex. *Sleep*. 2016; 39(4):861-74. doi: 10.5665/sleep.5644.
16. Bellesi M, de Vivo L, Tononi G, Cirelli C. Transcriptome profiling of sleeping, waking, and sleep deprived adult heterozygous Aldh1L1 - eGFP-L10a mice. *Genom Data* 2015, 6:114-117.
17. Bellesi M, de Vivo L, Tononi G, Cirelli C. Effects of sleep and wake on astrocytes: clues from molecular and ultrastructural studies. *BMC Biology* 2015, 13:66.
18. de Vivo L, Faraguna U, Nelson AB, Pfister-Genskow M, Klapperich ME, Tononi G, Cirelli C. Developmental patterns of sleep slow wave activity and synaptic density in adolescent mice. *Sleep*. 2014, 37(4):689-700.
19. de Vivo L, Landi S, Panniello M, Baroncelli L, Chierzi S, Mariotti L, Spolidoro M, Pizzorusso T, Maffei L, Ratto GM. Extracellular matrix inhibits structural and functional plasticity of dendritic spines in the adult visual cortex. *Nature Communications* 2013; 4:1484.
20. de Vivo L, Melone M, Bucci G, Rothstein JD, Conti F. Quantitative analysis of EAAT4 promoter activity in neurons and astrocytes of mouse somatic sensory cortex. *Neurosci Lett*. 2010, 474(1):42-5.
21. de Vivo L, Melone M, Rothstein JD, Conti F. GLT-1 Promoter Activity in Astrocytes and Neurons of Mouse Hippocampus and Somatic Sensory Cortex. *Front Neuroanat*. 2010; 3:31.
22. Carnevali O, de Vivo L, Sulpizio R, Gioacchini G, Olivetto I, Silvi S, Cresci A. Growth improvement by probiotic in European sea bass juveniles (*Dicentrarchus labrax*, L.), with particular attention to IGF-1, myostatin and cortisol gene expression. *Aquaculture* 2006 258 (1-4), 430-438.

Total citations in Google Scholar: 1570. H-index: 15.

Impact of the research on the media (selected list)

Moebius Radio 24 (podcast in Italian)

<http://www.radio24.ilsole24ore.com/programma/moebius/sonnosinapsi-piccole-elefanti-botanica-111620-qSLA8ZIWIC>

Interview on Italian national and local television programs: TG Regionale and TG Leonardo "La forma del sonno" 2017, (in Italian).

Sleep deprivation can lead to the brain 'eating itself', study says. Independent 25/05/2017

The brain starts to eat itself after chronic sleep deprivation. New Scientist 23/05/2017

Sleep deprivation can cause brain to start 'eating' itself. The Telegraph 26/05/2017

Your Brain Will Start To Eat Itself After Chronic Sleep Deprivation. Huffingtonpost 24/05/2017

The Purpose of Sleep? To Forget, Scientists Say. The New York Times. 3/02/2017

The Brain's Connections Shrink During Sleep. The Atlantic 3/02/2017

Sleep is about forgetting some memories and keeping others, studies suggest. Independent 3/02/2017

Sleep may help us to forget by rebalancing brain synapses. The Guardian 3/02/2017

Camerino, 24 Maggio 2022

Ruise dell'io

June the 2nd 2022

Curriculum Vitae

Dr. Valentina Di Biase, PhD

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Web of Science ResearcherID: [T-3714-2017](https://orcid.org/0000-0002-3292-6516)

Contact and personal data

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Peter-Mayr Strasse 1, A-6020 Innsbruck, Austria
E-mail: valentina.di.biase@i-med.ac.at; valentina.di.biase75@gmail.com
Phone: +43 512 9003-70443; Mobile: +43 699 19479072
Fax: +43-512-9003-73440
Date of birth 13.07.1975
Nationality Italian
Languages Italian (native speaker), English (fluent), German (good)

Education

28.11.2008 Ph.D. in Medical Sciences, advisor Prof. Bernhard E. Flucher, Medical University of Innsbruck, AT
24.10.2001 Master degree (Laurea vecchio ordinamento) in Pharmacy, University G. D'Annunzio of Chieti-Pescara, I

Professional career

Dates 01.2020 – current
Role and Institution Principal Investigator, Institute of Pharmacology, Medical University of Innsbruck, AT
Research Topic Regulation of neuronal structural and synaptic plasticity
Tasks/Responsibilities Planning and coordination of the research and management of budget, personnel, and infrastructures. Design and performing of experiments, Supervision of PhD students and Master Theses.

Associated Faculty Member of the "CaVx PhD. Program Calcium channel in excitable cells" <https://cavx.at/>

Main techniques: Banker's style primary culture of neurons; Single particle tracking; FRAP, advanced quantitative fluorescence imaging, molecular cloning; calcium imaging using genetically encoded calcium indicators (cytoplasmic or synapse targeted)

Teaching Lecturer and organizer of the workshop o1n Synaptogenesis WS2020/2021, 0.67 semester hours, for undergraduate students of the Molecular Medicine Master degree
Lecturer of the "Ca_vX II: Ion Channel Physiology" for the CavX PhD program, Summer Semester 2020, 2 hours

Dates From 21.03.2022 to 8.04.2022
Role and Institution Guest researcher in the laboratory of Dr. M. E. Mangoni, Institute of Functional Genomics (IGF, CNRS), Montpellier, F

Research Topic Molecular physiology of the pacemaker mechanism

Tasks/Responsibilities Designed and performed research

Main techniques: Electrophysiology of neurons and fluorescence imaging of ion channel and G-protein coupled receptors in pacemaker cells

Dates April and May 2019

Role and Institution Lecturer, Department of Physiology, Karl Landsteiner Private University for Health, Krems an der Donau, AT

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale

02.06.2022 *Valentina Di Biase*

June the 2nd 2022

Taught course	Physiology (Neurophysiology)
Tasks/Responsibilities	Lecturer of the workshop in Neurophysiology, 2 semester hours, for undergraduate students
Dates	10.2016 – 04.2017
Role and Institution	Teaching assignment and Guest Researcher, Institute of Biophysics, Medical University of Graz, AT
Research Topic	Neurobiology of ion channels and calcium signaling
Tasks/Responsibilities	Designed and performed research
Teaching	Co-organizer and lecturer for the Seminars and Workshops in the course of Neurophysiology and Signal transduction, 1.3 semester hours duration, for undergraduate students of the Medical University
Dates	17.3.2014 – 28.4.2014
Role and Institution	Guest scientist, in the research group of Molecular Physiology led by Dr. M. Heine, Leibniz Institute for Neurobiology, Magdeburg, DE
Research Topic	Physiology of Synapses
Tasks/Responsibilities	Planned, designed, and performed research Main techniques: Single particle tracking, e.g. real-time high spatial and temporal resolution of ion channels and membrane receptors
Dates	17.09.2012 – 30.09.2016
Role and Institution	University Assistant and Principal Investigator, Institute of Biophysics, Medical University of Graz, AT
Research Topic	Trafficking and neurobiology of L-type calcium channels in neurons
Tasks/Responsibilities	Planning and coordination of the research and management of budget, personnel and infrastructures. Design and performing of experiments. Supervision of two early Post-Docs and one technical assistant Main techniques: Banker's style primary culture of neurons; Single particle tracking, FRAP; advanced quantitative fluorescence imaging; molecular cloning; western blot protocols
Teaching	Co-organizer and lecturer for the Seminars and Workshops in the course "Neurophysiology and Signal transduction", from WS2013/14 to SS2016 each semester, 1.3 semester hours duration, for undergraduate students of the Medical University of Graz. Organizer and lecturer of the Lectures in Neurobiology in the Summer Semesters 2014-2015 and Winter Semester 2014/15, 2 semester hours duration for undergraduate students Co-organizer and lecturer for the course of Analysis of signal transduction and targeting of proteins in single cells, from SS2013 to SS2015 each semester, 0.9 semester hours for the PhD students of the Program "Metabolic & Cardiovascular Disease"
Dates	10.2010 & 11.2011
Role and Institution	Guest scientist, in the research group of Molecular Physiology lead by Dr. M. Heine, Leibniz Institute for Neurobiology, Magdeburg, DE
Research Topic	Physiology of Synapses
Tasks/Responsibilities	Planned, designed, and performed research Main techniques: Single particle tracking, e.g. real-time high spatial and temporal resolution of ion channels and membrane receptors dynamics in neurons
Dates	12.2008 – 07.2012

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 198 e del GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale

02.06.2022 *Elvira A. Gen*

June the 2nd 2022

Role and Institution	Post-Doc, Department of Physiology and Medical Physics, Medical University of Innsbruck, AT; Advisor Prof. B. E. Flucher
Research Topic	Cellular neurophysiology of ion channels
Tasks/Responsibilities	Planned, designed, and performed research. Experimental supervision of two PhD students and training of newly employed technical assistants in the laboratory of Prof. B. E. Flucher Main techniques: High resolution and quantitative fluorescence microscopy, molecular cloning, Banker's style primary culture of neurons
Dates	03.2005 – 11.2008
Role and Institution	Ph.D. student in Medical Sciences, Department of Physiology and Medical Physics, Medical University of Innsbruck, AT; Advisor Prof. B. E. Flucher
Research Topic	Physiology of ion channels in neurons and other excitable cells
Tasks/Responsibilities	Designed and performed research Main techniques: High-resolution fluorescence microscopy, molecular cloning, Banker's style primary culture of neurons
Dates	01.2002 – 12.2003
Role and Institution	Visiting scholar, Department of Cell and Developmental Biology, University of Pennsylvania, Philadelphia, USA; Advisor Prof. C. Franzini-Armstrong
Research Topic	Neuromuscular transmission and excitation-contraction coupling
Tasks/Responsibilities	Designed and performed research Main techniques: Freeze fracture and thin sectioning electron microscopy

Obtained research grants

Duration	13.01.2020-30.06.2024
Role	Principal Investigator
Title	Dendritic complexity regulation by phospho-S1928 of Cav1.2
Budget	€ 399,976.50
Funding agency	FWF (Austrian Funding Agency) via competitive international peer-review process. Project contract: P 33225
Host Institution	Institute of Pharmacology, Medical University of Innsbruck, AT
Duration	01.11.2012-30.09.2016
Role	Principal Investigator
Title	Adrenergic regulation of Cav1.2 L-type calcium channels dynamics in neurons
Budget	€ 362,458.95
Funding agency	FWF (Austrian Funding Agency) via competitive international peer-review process. Project contract: P 25085
Host Institution	Institute of Biophysics, Medical University of Graz, AT
Duration	01.08.2009-31.07.2012
Role	Principal Investigator
Title	Cav1.2 calcium channel dynamics in neuronal modulation
Budget	€ 192,330.00
Funding agency	FWF (Austrian Funding Agency) via competitive international peer-review process. Project contract: T 443
Host Institution	Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003 n.196 e del GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale

02.06.2022 *Wolfgang R. Meier*

Research grant proposal under review

Duration 4 years
 Type Transdisciplinary network project including 4 Principal Investigators
 Role Co-Principal Investigator
 Title The role of high voltage-gated calcium channel $\beta 2$ subunit in health and disease
 Budget Share – € 350,000.00 of total € 1,500,000.00
 Funding agency FWF (Austrian Funding Agency) via competitive international peer-review process. Protocol Number KFG98 - B
 Evaluation step Passed the first evaluation step of the project proposal letter of intent. Invited for second phase evaluation by submission of extended version and second cycle international peer-review evaluation

Peer review activities

Dates 11.2019
 Type & Institution Member of the Scientific Panel for the evaluation of the Research Projects of the Department of Pharmaceutical and Pharmacological Sciences, University of Padova, I

Dates Since 2020
 Role Reviewing Editor for "Frontiers in Pharmacology" Member of the Editorial Board of the section "Pharmacology of Ion Channels and Channelopathies" of "Frontiers in Pharmacology"

Journals Cerebral Cortex, Archives of Biochemistry and Biophysics, Plos One, Channels

Awards and distinction

Dates 2012
 Type „Prize of the city of Innsbruck for scientific research“, Innsbruck, AT

Dates 2.9.2007-22.9.2007
 Type Selected for "European Synapse Summer School – Mechanisms and plasticity of synaptic transmission: from Receptors to Behaviour", PENS Training Center, University of Bordeaux, Bordeaux, F

Short-listing for Academic Positions

Dates 09.2019
 Types Shortlisted for the Tenure Track position at the Institute for Biomedical Ageing Research, University of Innsbruck, AT

Attended specialization courses

Date May 2016
 Title Dealing with Challenging people situations
 Speaker Dr. Indi Seehra, Director of Human Resources of the London School of Economics and previously of the University of Cambridge, UK
 Host Institution Medical University of Graz AT

Date May 2015
 Title The accelerated Leadership journey
 Speaker Dr. Indi Seehra, Director of Human Resources of the London School of Economics and previously of the University of Cambridge, UK

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale.

02.06.2022 *Ulrich H. Bauer*

June the 2nd 2022

Host Institution	Medical University of Graz AT
Date	Winter Semester 2014/2015
Title	Teaching in English - Starting Content and Language Integrated Learning (CLIL)
Host Institution organizer	Medical University of Graz AT
Date	15.05.2014
Title	Gender & Diversity – Impulse
Speaker	Dr. V. C. Kuckenberg, Head of the Gender Unit department of the Medical University of Graz, AT
Host Institution	Medical University of Graz, AT
Date	24-26.09.2009
Title	Advanced Scientific Writing
Speaker	Dr. Ruth Willmott, Bioscript International, Vienna, AT
Host Institution	Medical University of Innsbruck, AT

Supervised Master Theses

Date	04/2022-current
Title	Effect of L-type voltage-gated calcium channels (L-VGCCs) activation on the synaptic content of AMPAR isoforms
Student & Institution	Lukas Bauer, Master of Science in Engineering, Study Program in Biotechnology, Management Center Innsbruck, a private business school, Innsbruck, AT
Type of thesis	Experimental Thesis
Thesis' institution	Institute of Pharmacology, Medical University of Innsbruck, AT
Role	Main supervisor
Financial support	FWF project contract number P 33225 to V. Di Biase
Date	03/2021-11.2021, final exam on 18.01.2022
Title	Regulation of dendritic development and expression of synaptic markers by L-type voltage-gated calcium channels
Student Institution	Rosina Maier, Master of Science in Engineering, Study Program in Biotechnology, Management Center Innsbruck, a private business school, Innsbruck, AT
Type of thesis	Experimental Thesis
Thesis' institution	Institute of Molecular and Cellular Pharmacology (currently Institute of Pharmacology), Medical University of Innsbruck
Role	Main supervisor
Financial support	FWF project contract number P 33225 to V. Di Biase

Supervised PhD Theses

Date	From October 2021- current
Title	The role of L-type calcium channels in regulation of dendritic growth
Student	Stefano Lanzetti, PhD student of the "CaVx in excitable cells" PhD program
Student's institution	Institute of Pharmacology, Medical University of Innsbruck, AT
Role	Main supervisor
Financial support	FWF project contract number P 33225 to V. Di Biase
Date	From March 2020 to May 2021

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n.196 e del GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale.

02.06.2022 *V. Di Biase*

June the 2nd 2022

Title Calcium channel phosphorylation in regulation of dendritic complexity
Student Martina Mari, PhD student of the "CaVx in excitable cells" PhD program
Student's institution Institute of Molecular and Cellular Pharmacology (currently Institute of Pharmacology), Medical University of Innsbruck, AT
Role Main supervisor
Financial support FWF project contract number P 33225 to V. Di Biase

Date From December 2009 to November 2014
Title Isoform-specific reversibility and disruption of the CaV α 1 β subunit interaction in functional voltage-gated calcium channel complexes
Student Marta Campiglio, PhD student of the "MCBO" PhD program
Affiliation Department of Physiology and Medical Physics, Medical University of Innsbruck, AT
Role Experimental supervisor (Main supervisor: Prof. B. E. Flucher)
Current student's position University assistant and Principal Investigator at the Institute of Physiology, Medical University of Innsbruck, AT

Date From February 2009 to December 2013
Title Differential neuronal and nuclear targeting properties of calcium channel β 4 splice variants and their involvement in gene regulation
Student Solmaz Ahari Etemad, PhD student of the "MCB" PhD program
Affiliation Department of Physiology and Medical Physics, Medical University of Innsbruck, AT
Role Experimental supervisor (Main supervisor: Prof. B. E. Flucher)
Current student's position Post-Doc, Institute for Biomedical Ageing, University of Innsbruck, AT

Supervision of early Post-Docs and training of technical assistants

Date From July 2014 to September 2016
Post-Doc fellow Dr. Alessandra Folci
Affiliation Institute of Biophysics, Medical University of Graz, AT
Financial support FWF project contract number P 25085 to V. Di Biase
Post-Doc later position Post-doc at the IPMC, Nice, F
Post-Doc later position Post-Doc at Humanitas (awarded with a Marie Curie EU Fellowship), Milan, I
Post-Doc later position Researcher at the CNR, I

Date From March 2013 to February 2014
Post-Doc Fellow Dr. Claudia Ramprecht
Affiliation Institute of Biophysics, Medical University of Graz, AT
Financial support FWF project contract number P 25085 to V. Di Biase
Post-Doc current position Quality operation and Release, Fresenius Kabi, Graz, AT

Date From 2013 September 2016
Post-Doc Fellow Mag. Angela Steinberger
Affiliation Institute of Biophysics, Medical University of Graz, AT
Financial support FWF project contract number P 25085 to V. Di Biase
Current working place Jungbunzlauer, Pernhofen, AT

Speaker and chair activities at international conferences

Date and Conference The 4th European Calcium Channel Conference, May 24-28, Alpbach, AT
Role Chair of one guided poster tour

Autizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 198 e del GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale

02.06.2022 Valeria M. Mari

June the 2nd 2022

Organizers	G. Obermair, Karl Landsteiner University, Krems, AT; T. Gudermann, LMU Munich, DE; V. Flockerzi, Saarland University, DE; B. E. Flucher, Medical University of Innsbruck, AT; M. Biel, LMU Munich, DE; J. Striessnig, University of Innsbruck, AT
Date and Conference	Posttranslational modifications in neuronal physiology and brain disorders, Webinar, Milan, I, 5-6.7.2021
Role	Invited speaker
Title of the contribution	L-type voltage gated calcium channels in regulation of dendritic growth
Organizers	A. Folini, Humanitas & Institute of Neuroscience CNR, Milan, I, M. Fossati, Humanitas, Milan, I
Date and Conference	FASEB on Ion channel regulation, Steamboat Springs, Colorado, USA, 12.07.2017
Role	Invited speaker
Title of the contribution	Imaging surface trafficking of Cav1.2 Ca ²⁺ channels in neurons
Organizers	M. Dell'Acqua, University of Colorado, USA; J. Trimmer, UC Davis, USA
Date and Conference	Meeting of the Austrian Neuroscience Association, Salzburg, AT, 25.09.2015
Role	Contributed talk
Title of the contribution	Molecular mimicking of phosphorylation at S1928 and S1700-T1704 confers modified surface traffic properties to Cav1.2 voltage gated calcium channels in cultured hippocampal neurons
Organizers	Austrian Neuroscience Association
Date and Conference	Meeting of the Austrian Neuroscience Association, Alpbach, AT, 20.09.2011
Role	Contributed talk
Title of the contribution	Surface traffic of dendritic Cav1.2 calcium channels in hippocampal neurons
Organizers	Austrian Neuroscience Association
Date and Conference	Meeting of the Austrian Neuroscience Association, Salzburg, AT, 09.2009
Role	Contributed talk
Title of the contribution	Stable membrane expression of Cav1.2 calcium channels is independent of activity related rearrangement of post-synaptic scaffold proteins
Organizers	Austrian Neuroscience Association
Invited Seminars	
Date & Institution	Università G. d'Annunzio, Chieti, I, within the PhD School of Biomolecular and Pharmaceutical Sciences, 6.06.2022
Inviting person	A. Mollica & L. Giampietro
Title of the contribution	Fluorescence imaging of cultured neurons
Date & Institution	Università G. d'Annunzio, Chieti, I, within the PhD School of Biomolecular and Pharmaceutical Sciences, 7.06.2022
Inviting person	A. Mollica & L. Giampietro
Title of the contribution	Voltage-gated calcium channels post-synaptic signaling in hippocampal neurons
Date & Institution	26.09.2019, University Hospital Regensburg, DE
Inviting person	LS Maier & K. Hammer
Title of the contribution	Trafficking of L-type voltage gated calcium channels in excitable cells
Date & Institution	07.03.2016, Cornell University, New York, USA

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679) a fini della ricerca e selezione del personale

02.06.2022 *Definitive M. Maier*

June the 2nd 2022

Inviting person	A. Rajadhyaksha
Title of the contribution	Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of CaV1.2 calcium channels in hippocampal neurons
Date & Institution	UC Davis, Davis, California, USA, 25.01.2018
Inviting person	J.W. Hell
Title of the contribution	Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of CaV1.2 calcium channels in hippocampal neurons
Date & Institution	University of Innsbruck, Innsbruck, AT, 20.04.2015
Inviting person	J. Striessnig
Title of the contribution	Trafficking of phosphorylated CaV1.2 calcium channels in neurons
Date & Institution	Medical University of Graz, Graz, AT, 17.01.2012
Inviting person	K. Groschner
Title of the contribution	Surface traffic of dendritic CaV1.2 calcium channels in hippocampal neurons
Date & Institution	University of Iowa, Iowa City, Iowa, USA, 22.11.2010
Inviting person	A. Lee, currently at The University of Texas at Austin
Title of the contribution	Dynamics of CaV1.2 voltage gated calcium channels in cultured hippocampal neurons
Date & Institution	University of Pennsylvania, Philadelphia, Pennsylvania, USA 29.11.2010
Inviting person	C. Franzini-Armstrong, currently Emeritus
Title of the contribution	Dynamics of CaV1.2 voltage gated calcium channels in cultured hippocampal neurons
Date & Institution	(Imperial College, London, Great Britain, 17.12.2010
Inviting person	A. Dolphin
Title of the contribution	Dynamics of CaV1.2 voltage gated calcium channels in cultured hippocampal neurons

02.06.2022 Ubaldo A. B. B.

LATEST ABSTRACTS AT CONGRESSES

- [1]. Molecular mimicking of phosphorylation at S1928 and S1700-T1704 confers modified surface traffic properties to Cav1.2 voltage gated calcium channels in cultured hippocampal neurons. Folci A, Steinberger A, Stanika R, Campiglio M, Ramprecht C, Obermair GJ, Heine M, Di Biase V. Ion Channel Regulation, FASEB, June 28- July 3 2015, Big Sky, Montana, USA
- [2]. Molecular mimicking of phosphorylation at S1928 and S1700-T1704 confers modified surface traffic properties to Cav1.2 voltage gated calcium channels in cultured hippocampal neurons Folci A., Steinberger A., Stanika R., Campiglio M., Ramprecht C., Obermair G. J., Heine M., Di Biase V. Biophysics, Los Angeles, March 7-11 2016.
- [3]. Activity of L-type voltage gated calcium channels regulates trafficking of GluA2-containing AMPARs. Folci A, Steinberger A, Di Biase V. FENS Forum of Neuroscience, July 2-6 2016, Copenhagen, Denmark.
- [4]. The developmental impact of calcium channel $\alpha 2\delta$ subunits on formation of neuronal network connectivity. Bikbaev A, Ciuraszkiewicz A, Heck J, Klatt O, Freund R, Mitlöchner J, Obermair GJ, Di Biase V and Heine M. European Calcium Channel Conference, May 2-12 2018, Alpbach, Austria.
- [5]. Distinct impact of auxiliary $\alpha 2\delta$ subunits of calcium channels in developing neuronal networks. Bikbaev A, Ciuraszkiewicz A, Heck J, Klatt O, Freund R, Mitlöchner J, Obermair GJ, Di Biase V and Heine M. FENS Forum of Neuroscience, July 7-11 2018, Berlin, Germany.
- [6]. Alternative Splicing of Cav1.2 in ARVC Patients. Bourjau T, Di Biase V, Campiglio M, Gigitberger M, Schober B, Stauber T, Pietrzyk G, Baessler A, Fischer M, Wagner S, Maier LS, Hammer KP. Biophysical Society Annual Meeting, February 15-19 2020, San Diego, USA
- [7]. Modulation of L-type calcium currents associates with changes of dendritic growth in hippocampal neurons. Lanzetti S, Mesirca P, Folci A, Maier R, Torre E, Rinner F, Campiglio M, Mangoni ME and Di Biase V. Fourth European Calcium Channel Conference, May 24-28 2022, Alpbach, Austria

02.06.2022 *Valentina R. Maier*

LIST OF PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

- [1] Lanzetti S and Di Biase V*. *Small molecules in voltage-gated calcium channel dependent neurological disorders: state-of-the-art and perspectives*. *Molecules*, 27(4), 1312 (2022)

Contribution: Senior and corresponding author. Concept and writing of the manuscript

Affiliation: Institute of Pharmacology, Medical University of Innsbruck, AT

Financial contribution: FWF project contract number P 33225 to V. Di Biase

- [2] Bikbaev A, Czurazkiewicz-Wojciech A, Heck J, Klatt O, Freund R, Mitlöhner J, Enrie Lacalle S, Sun M, Repetto D, Frischknecht R, Ablinger C, Rohmann A, Missler M, Obermair GJ, Di Biase V, Heine M. *Auxiliary $\alpha 2\delta 1$ and $\alpha 2\delta 3$ Subunits of Calcium Channels Drive Excitatory and Inhibitory Neuronal Network Development*. *J Neurosci*, 40(25):4824-4841 (2020)

Contribution: Editing and writing of the manuscript.

Affiliation: Institute of Pharmacology, Medical University of Innsbruck, AT

Financial contribution: FWF project contract number P 25085 and P 33225 to V. Di Biase

- [3] Folci A, Steinberger A, Lee B, Stanika R, Scherubel S, Campiglio M, Ramprecht C, Pelzmann B, Hell JW, Obermair GJ, Heine M, Di Biase V*. *Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of Cav1.2 calcium channels in hippocampal neurons*. *J Biol Chem*, 293:1040-1053 (2018).

Contribution: Senior and corresponding author. Conception of the research. Design, performing, and analysis of experiments. Writing of the manuscript.

Affiliation: Institute of Biophysics, Medical University of Graz, AT

Financial contribution: FWF project contract number P 25085 to V. Di Biase

- [4] Patriarchi T, Qian H, Di Biase V, Malik ZA, Chowdhury D, Price JL, Hammes EA, Buonarati OR, Westenbroek RE, Catterall WA, Hofmann F, Xiang YK, Murphy GG, Chen CY, Navedo MF, Hell JW. *Phosphorylation of Cav1.2 on S1928 uncouples the L-type Ca^{2+} channel from the $\beta(2)$ adrenergic receptor*. *EMBO Journal*, 35: 1330-1345 (2016)

Recommended "Exceptional" for F1000, see <http://f1000.com/prime/726306316?ref=ypp>

Contribution: Design and performing of experiments. Data analysis.

Financial contribution: FWF project contract number P 25085 to V. Di Biase

Affiliation: Institute of Biophysics, Medical University of Graz, AT

- [5] Etemad S, Obermair GJ, Benedetti A, Stanika R, Di Biase V, Burtscher V, Koschak A, Bindreither D, Köfer R, Geley S, Wille A, Lusser A, Flockerzi V, Flucher BE. *Differential Neuronal Targeting of a New and Two Known Calcium Channel β Subunit Splice Variants Correlates with Their Regulation of Gene Expression*. *J Neurosci*, 34: 1446-1461, (2014) **Journal Cover Article**

Contribution: Design/concept of research and experimental data analysis

Affiliation: Department of Physiology and Medical Physics, Medical University of Innsbruck, AT. Published while employed at the Institute of Biophysics, Medical University of Graz, AT

- [6] Campiglio M, Di Biase V, Tuluc P, Flucher BE. *Stable incorporation versus dynamic exchange of β subunits in a native Ca_v channel complex*. *J Cell Science*, 126: 2092-2101, (2013).

Contribution: Design of research and experimental data analysis

Financial contribution: FWF project contract number T-443 to V. Di Biase

Affiliation: Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

Dr. Di Biase

- [7] Di Biase V, Tuluc P, Campiglio M, Obermair GJ, Heine M, Flucher BE. *Surface Traffic of Dendritic Cav1.2 Calcium Channels in Hippocampal Neurons*. J Neurosci, 38: 13682-13694 (2011). **Featured article**

Contribution: Concept of research. Design, performing, and analysis of experiments. Data analysis. Writing of the manuscript.

Financial contribution: FWF project contract number T-443 to V. Di Biase

Affiliation: Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

- [8] Obermair GJ, Schlick B, Di Biase V, Subramanyam P, Gebhart M, Baumgartner S, Flucher BE. *Reciprocal Interactions Regulate Targeting of Calcium Channel beta Subunits and Membrane Expression of alpha1 Subunits in Cultured Hippocampal Neurons*. J Biol Chem, 285: 5776-5791 (2010). **Journal Cover Article**

Contribution: Design and performing of experiments Data analysis. Writing of the manuscript.

Affiliation: Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

- [9] Di Biase V, Flucher BE, Obermair GJ. *Resolving sub-synaptic compartments with double immunofluorescence labeling in hippocampal neurons*. J Neurosci Methods, 176: 78-84 (2009).

Contribution: Conception of research. Design, performing, and analysis of experiments. Data analysis. Writing of the manuscript.

Affiliation: Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

- [10] Di Biase V, Obermair GJ, Szabo Z, Altier C, Sanguesa J, Bourinet E, Flucher BE. *Stable Membrane Expression of Postsynaptic Cav1.2 Calcium Channel Clusters Is Independent of Interactions with AKAP79/150 and PDZ Proteins*. J Neurosci, 51: 13845-13855 (2008).

Contribution: Conception of research. Design, performing, and analysis of experiments. Data analysis. Writing of the manuscript.

Affiliation: Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

- [11] Di Biase V, Franzini-Armstrong C. *Evolution of skeletal type e-c coupling: a novel means of controlling calcium delivery*. J Cell Biol, 171: 695-704, (2005). **Journal Cover Article**

Contribution: Corresponding Author. Conception of research. Design, performing, and analysis of experiments. Data analysis. Writing of the manuscript.

Affiliations: Department of Cell and Developmental Biology, University of Pennsylvania, Philadelphia, USA
Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

- [12] Schredelseker J, Di Biase V, Obermair GJ, Felder TE, Flucher BE, Franzini-Armstrong C, Grabner M. *The beta(1a) subunit is essential for the assembly of dihydropyridine-receptor arrays in skeletal muscle*. PNAS, 47: 17219-17224, (2005).

Contribution: Design and performing of experiments. Data analysis. Writing of the manuscript.

Affiliations: Department of Cell and Developmental Biology, University of Pennsylvania, Philadelphia, USA

07.06.2022
V. Di Biase

PROCEDURA PUBBLICA DI SELEZIONE PER L'ASSUNZIONE DI N. 1 RICERCATORE A TEMPO DETERMINATO, AI SENSI DELL'ART. 24 COMMA 3 LETT. B) DELLA LEGGE N. 240/2010, PER IL SETTORE CONCURSALE 05/D1 "Fisiologia" - SETTORE SCIENTIFICO-DISCIPLINARE BIO/09 "Fisiologia" - SCUOLA DI Scienze del Farmaco e dei Prodotti della Salute UNIVERSITA' DEGLI STUDI DI CAMERINO, BANDITA CON D.R. PROT. N. 22852 DEL 5 aprile 2022, IL CUI AVVISO È STATO PUBBLICATO SULLA G.U. – IV SERIE SPECIALE - N. 35 DEL 3 maggio 2022

Giudizio analitico sui titoli, sul curriculum e sulla produzione scientifica del candidato:

1) CANDIDATA: Luisa de Vivo

Titoli e curriculum

I seguenti titoli sono considerati per la valutazione:

- 2020 Abilitazione Scientifica Nazionale Professore di II fascia nei settori concorsuali: 05/D1 Fisiologia, 05/B2 Anatomia Comparata e Citologia, 05/H2 Istologia
- 2010: Dottorato di ricerca in Neuroscienze conseguito il 02/02/2010 presso Università politecnica delle Marche, Italia.

Svolgimento attività didattica a livello universitario in Italia o all'estero:

- 2021-2022 Fisiologia (49 ore) corso di Chimica e Tecnologia Farmaceutiche, Università di Camerino, Italia
- 2021-2022 Microscopia (7 ore), Scuola Internazionale di Dottorato, Università di Camerino, Italia
- 2020-2021 Microscopia (7 ore), Scuola Internazionale di Dottorato, Università di Camerino, Italia
- 2020-oggi Co-supervisore di n. 2 studenti PhD, n. 1 studente MScR, Scuola di Farmacia, Università di Camerino, Italia
- 2019-2020 Supervisore di n.1 studente Post-Doc, n.1 studente MScR student, School of Physiology, Pharmacology and Neuroscience, University of Bristol, UK
- 2013-2017 Supervisore di 10 assistenti di ricerca, Department of Psychiatry, University of Wisconsin Madison, USA

Attività di formazione e di ricerca presso qualificati istituti nazionali ed esteri:

- Ricercatore a Tempo Determinato (art. 24 comma 3 lett. a, Legge n. 240/2010), SSD BIO/09, Scuola di Farmacia, Università di Camerino, Italia.
- 2019-2020 – Ricercatore indipendente, Scuola di Fisiologia, Farmacologia e Neuroscienze, Università di Bristol, Regno Unito
- 2016- 2017- Assistente Scienziato, Dipartimento di Psichiatria, Università del Wisconsin Madison, WI, USA.
- 2011-2016 - Assegnista di ricerca, Dipartimento di Psichiatria, Università del Wisconsin Madison, WI, USA
- 2010-2011 – Borsa di ricerca Telethon, Laboratorio NEST, CNR Nanoscience, Pisa, Italia

Partecipazione a progetti:

- Premio per lo sviluppo della carriera 2020-2023, Fondazione Armenise-Harvard. Budget 600000 USD. Ruolo: PI
- 2019-2022 Premio Wellcome Trust Seed in Science. Budget: 100000 £. Ruolo: PI
- 2019-2020 BBSRC 18 ALERT Mid-Range Equipment Initiative, 1 anno. Budget: 200000 £. Ruolo: Co-PI

Conseguimento di premi e riconoscimenti internazionali per attività di ricerca:

- 2020 Acknowledgement for "de Vivo L, Bellesi M. The role of sleep and wakefulness in myelin plasticity. *Glia*. 2019;67(11):2142-2152. doi:10.1002/glia.23667 " as the most downloaded paper among those published in *Glia* between January 2018 and December 2019.
- 2019 Seal of Excellence for the proposal H2020-MSCA-IF-2018 for scoring above 85%.
- 2017 Altmetric score 931, "High Attention Score compared to outputs of the same age (99th percentile)" and "High Attention Score compared to outputs of the same age and source (98th percentile)" for de Vivo et al. Ultrastructural evidence for synaptic scaling across the wake/sleep cycle, *Science* 2017
- 2015 F1000 Prime (1000 international Faculty Members) recommendation for "Belleli M, de Vivo L, Tononi G, Cirelli C. Effects of sleep and wake on astrocytes: clues from molecular and ultrastructural studies. *BMC Biol*. 2015;13:66.
- 2014 Italian Society of Neuroscience (SINS) Travel Award, 500€
- 2008 Swiss Society for Neuroscience Travel Fellowship, 500€

Partecipazione come relatore e presentazione poster alle seguenti conferenze e workshop:

- 1. "Ultrastructural Sleep". Invited speaker at Pisa Award 15th Edition, 11 minute of Sleep, Pisa IT, May 6-7, 2022.
- 2. "Adolescent chronic sleep restriction promotes alcohol binge drinking and escalates alcohol consumption in msP rats". Poster presentation at Gordon Research Conference on "Sleep Regulation and Function", Lucca IT, 14-15 March, 2022.
- 3. "Remodeling of cortical synapses across sleep, wake and sleep loss". Invited speaker at Waterloo Foundation Annual Conference, Cardiff University, May 23, 2019.
- 4. "Sleep and synaptic homeostasis". Seminar for doctoral candidates, International School of Advanced Studies, University of Camerino, May 17, 2018.
- 5. "Sleep and plasticity during development". Invited speaker at Clinical Research Priority Program: Sleep and Health, Zurich, February 2, 2018.
- 6. "Sleep and wake at cortical synapses". Seminar at IMT School of Advanced Studies of Lucca, Italy, December 5, 2017.
- 7. "Sleep and wake at cortical synapses". Seminar at University of Bristol, School of Physiology, Pharmacology and Neuroscience, July 11, 2017
- 8. "Looking for the functions of sleep: insights from molecular and ultrastructural studies". Seminar at VIB & KU Leuven Centre for Brain & Disease Research, May 31, 2017
- 9. "Sleep and synapses: insights from ultrastructural studies". Seminar at Dept. Life Sciences, Imperial College London, May 4, 2017
- 10. "Can we tell whether a brain cell has been asleep by looking at the ultrastructure of mitochondrial and other cellular organelles?". Keynote speaker at Gordon Research Seminar on "Sleep Regulation and Function", Galveston TX, 2016

- 11. "Sleep loss promotes astrocytic phagocytosis of synaptic elements in mouse cerebral cortex" Poster presentation at Gordon Research Conference 2016 – Sleep regulation and function
- 12. "Ultrastructural signatures of sleep and wake in neuronal cell bodies of mouse frontal cortex". Poster presentation at SfN 2014
- 13. "Chronic sleep restriction increases mitochondrial size in cortical pyramidal neurons of adolescent mice. Poster presentation at FENS 2014
- 14. "Changes in sleep slow wave activity during adolescence: do they reflect synaptic pruning?" Poster presentation at Sleep-APSS 2013
- 15. "CSPGs digestion unmasks synaptic plasticity in the adult visual cortex". Poster presentation at SfN 2011
- 16. GLT-1 expression and Glu uptake in rat cerebral cortex are increased by phencyclidine. Poster presentation at FENS 2008.

Notorietà e diffusione dei risultati della ricerca:

- Moebius Radio 24 (podcast in Italian)
- <http://www.radio24.ilsole24ore.com/programma/moebius/sonnosinapsi-piccole-elefanti-botanica-111620-gSLA8ZIWIC>
- Interview on Italian national and local television programs: TG Regionale and TG Leonardo "La forma del sonno" 2017, (in Italian).
- Sleep deprivation can lead to the brain 'eating itself', study says. Independent 25/05/2017
- The brain starts to eat itself after chronic sleep deprivation. New Scientist 23/05/2017
- Sleep deprivation can cause brain to start 'eating' itself. The Telegraph 26/05/2017
- Your Brain Will Start To Eat Itself After Chronic Sleep Deprivation. Huffingtonpost 24/05/2017
- The Purpose of Sleep? To Forget, Scientists Say. The New York Times. 3/02/2017
- The Brain's Connections Shrink During Sleep. The Atlantic 3/02/2017
- Sleep is about forgetting some memories and keeping others, studies suggest. Independent 3/02/2017
- Sleep may help us to forget by rebalancing brain synapses. The Guardian 3/02/2017

Attività di revisione per riviste:

- Since 2018 Membro dell'editorial Board di Frontiers in Psychopharmacology
- Since 2019 Membro dell'editorial Board di Frontiers in System Neuroscience
- Since 2015 Revisore del Annual Meeting of the Associated Professional Sleep Societies, Journal of Sleep Research, Archives Italiennes de Biologie

Indicare i titoli non considerati per la valutazione, riportando altresì il motivo: non pertinenti per il bando di valutazione in oggetto.

- Responsabilità Istituzionali
- 2020-2022: Member of Faculty Committee for PhD in "Life and Health Sciences", XXXVI-XXXVII cycles at the International School of Advanced Studies, University of Camerino
- May 2022 Polling Station supervisor for "Consiglio Nazionale degli Studenti Universitari", Seggio n.1 Camerino
- 2021 PhD Dissertation of Giorgio Corsi, Sapienza University of Rome

Produzione scientifica

Nel curriculum presentato, la candidata riporta 22 pubblicazioni apparse su riviste internazionali, in 9 delle quali compare come primo autore o dichiara uguale contributo con esso. Le pubblicazioni vanno dal 2006 al 2021 con 2 anni di interruzione per maternità, con una media di 1,7 pubblicazioni l'anno.

Le 12 pubblicazioni presentate, così come quelle presenti nel curriculum, appaiono pienamente congruenti con il settore concorsuale di cui alla procedura comparativa.

Buona attività congressuale, con comunicazioni orali a diversi congressi e convegni.

Tutte le 12 pubblicazioni presentate sono state incluse nella valutazione.

GIUDIZI INDIVIDUALI

Commissario **Prof. Massimo BRAMUCCI:**

La candidata ha conseguito il dottorato di ricerca su tematiche attinenti al settore disciplinare oggetto del bando. La candidata ha svolto attività didattica come titolare di insegnamenti per corsi di laurea e di dottorato, così come molto buona appare l'attività di formazione o di ricerca presso istituti italiani e stranieri. Ha ottenuto finanziamenti internazionali in qualità di investigatore principale e co-investigatore principale.

Le attività di organizzazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali o partecipazione agli stessi appaiono buone. La candidata non riporta titolarità di brevetti. La partecipazione in qualità di relatore a congressi e convegni nazionali e internazionali appare più che buona.

Nel curriculum la candidata riporta conseguimento di premi e riconoscimenti nazionali e internazionali per attività di ricerca riconducibili al settore concorsuale di cui alla procedura comparativa. Non riporta alcun diploma di specializzazione europea riconosciuto da Board internazionali.

La produzione scientifica totale appare pienamente congruente al settore scientifico disciplinare oggetto di questa valutazione. È adeguata quantitativamente e continua dal punto di vista temporale. L'apporto individuale complessivo è da ritenersi paritario. Infine, la qualità e la collocazione delle pubblicazioni valutabili rispetto al settore scientifico disciplinare oggetto di questo bando sono molto buone.

Commissario **Prof. Paola D'ASCANIO:**

La candidata ha conseguito il dottorato di ricerca su tematiche relative al settore disciplinare oggetto del bando. La candidata ha svolto attività didattica come titolare di insegnamenti per corsi speciali e di laurea in Italia e all'estero; l'attività di formazione o di ricerca presso istituti italiani e stranieri risulta ottima. Ha ottenuto tre finanziamenti internazionali in qualità di investigatore principale e co-investigatore principale.

Le attività di organizzazione, partecipazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali possono essere considerate molto buone, considerata anche l'età accademica. Anche la partecipazione in qualità di relatore su invito a congressi nazionali e internazionali risulta più che buona.

Nel curriculum la candidata riporta conseguimento di premi e riconoscimenti nazionali e internazionali per attività di ricerca riconducibili al settore concorsuale della procedura in oggetto.

La produzione scientifica totale appare totalmente congruente al settore scientifico disciplinare oggetto di questa valutazione. È adeguata dal punto di vista quantitativo e continua dal punto di vista temporale. L'apporto individuale è ottimo come rilevabile da un alto numero di pubblicazioni come primo autore. Infine, la qualità e la collocazione delle pubblicazioni valutabili rispetto al settore scientifico disciplinare oggetto di questo bando sono eccellenti.

Commissario Prof. Marcello MASSIMINI:

La candidata ha conseguito il dottorato di ricerca su tematiche relative al settore disciplinare oggetto del bando. La candidata ha svolto attività didattica come titolare di insegnamenti per corsi di laurea e di dottorato in Italia e all'estero; ottima appare l'attività di formazione o di ricerca presso istituti italiani e stranieri. Ha ottenuto tre finanziamenti internazionali in qualità di investigatore principale e co-investigatore principale.

Le attività di organizzazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali o partecipazione agli stessi appaiono molto buone, considerata l'età accademica. La candidata non riporta titolarità di brevetti. La partecipazione in qualità di relatore a congressi e convegni nazionali e internazionali appare più che buona.

Nel curriculum la candidata riporta conseguimento di premi e riconoscimenti nazionali e internazionali per attività di ricerca riconducibili al settore concorsuale di cui alla procedura comparativa. Non riporta alcun diploma di specializzazione europea riconosciuto da Board internazionali.

La produzione scientifica totale appare pienamente congruente al settore scientifico disciplinare oggetto di questa valutazione. È adeguata quantitativamente e continua dal punto di vista temporale. L'apporto individuale è ottimo come rilevabile da un numero prevalente di pubblicazioni come primo o secondo autore. Infine, la qualità e la collocazione delle pubblicazioni valutabili rispetto al settore scientifico disciplinare oggetto di questo bando sono eccellenti.

GIUDIZIO COLLEGIALE

La candidata, presenta titoli di studio, attività di ricerca e didattica congruenti con il settore disciplinare oggetto del bando. Presenta una produzione scientifica rilevante nell'ambito dello stesso settore che evidenzia creatività e piena autonomia, confermate da un'eccellente qualità, continuità e diffusione delle pubblicazioni.

In conclusione, la candidata è ritenuta ampiamente meritevole di ricoprire la carica in oggetto.

2) CANDIDATA: Valentina Di Biase

Titoli e curriculum

I seguenti titoli sono considerati per la valutazione:

- 2008: Dottorato di ricerca in Medical Sciences conseguito il 24/11/2008 presso Medical University di Innsbruck, AT

Svolgimento attività didattica a livello universitario in Italia o all'estero:

- 2020-2022. Lecturer and organizer of the workshop on Synaptogenesis WS2020/2021, 0.67 semester hours, for undergraduate students of the Molecular Medicine Master degree. Lecturer of the "CavX II: Ion Channel Physiology" for the CavX PhD program, Summer Semester 2020, 2 hours, Institute of Pharmacology, Medical University of Innsbruck, AT
- April and May 2019. Lecturer, Physiology (Neurophysiology). Lecturer of the workshop in Neurophysiology, 2 semester hours, for undergraduate students, Department of Physiology, Karl Landsteiner Private University for Health, Krems an der Donau, AT
- 10.2016-04.2017. Co-organizer and lecturer for the Seminars and Workshops in the course of Neurophysiology and Signal transduction, 1.3 semester hours duration, for undergraduate students of the Medical University, Institute of Biophysics, Medical University of Graz, AT
- from WS2013/14 to SS2016 each semester, 1.3 semester hours duration, for undergraduate students of the Medical University of Graz. Organizer and lecturer of the Lectures in Neurobiology in the Summer Semesters 2014-2015 and Winter Semester 2014/15, 2 semester hours duration for undergraduate students. Co-organizer and lecturer for the course of Analysis of signal transduction and targeting of proteins in single cells, from SS2013 to SS2015 each semester, 0.9 semester hours for the PhD students of the Program "Metabolic & Cardiovascular Disease" 10.2010 & 11.2011, Institute of Biophysics, Medical University of Graz, AT
- 01.2022 Supervisore di 2 tesi magistrali, Institute of Pharmacology, Medical University of Innsbruck, AT
- 02.2009 ad oggi. Supervisore di 4 tesi per studenti PhD, Institute of Pharmacology, Department of Physiology and Medical Physics, Medical University of Innsbruck, AT
- 2013-2016. Supervisore di 3 Post-Docs e Assistenti tecnici, Institute of Biophysics, Medical University of Graz, AT

Attività di formazione e di ricerca presso qualificati istituti stranieri:

- 2020 ad oggi. Principal investigator, Institute of Pharmacology, Medical University of Innsbruck, AT
- 21.03.2022 – 08.04.2022. Guest researcher, Institute of Functional Genomic (IGF, CNRS), Montpellier, F
- 17.3.2014- 28.4.2014. Guest scientist, Leibniz Institute for Neurobiology, Magdeburg, DE
- 17.09.2012 - 30.09.2016. University Assistant and Principal Investigator, Institute of Biophysics, Medical University of Graz, AT
- 10.2010 & 11.2011. Guest scientist, Leibniz Institute for Neurobiology, Magdeburg, DE
- 12.2008-07.2012. Post-Doc, Department of Physiology and Medical Physics, Medical University of Innsbruck, AT
- 01.2002 -12.2003. Visiting scholar, Department of Cell and Developmental Biology, University of Pennsylvania, Philadelphia, USA

Partecipazione a progetti:

- 13.01.2020- 30.06.2024. Role Principal Investigator, Title - Dendritic complexity regulation by phospho-S1928 of Cav1.2 Budget € 399,976.50, Funding agency FWF (Austrian Funding Agency) via competitive international peer-review process, Project contract: P 33225. Host Institution Institute of Pharmacology, Medical University of Innsbruck, AT
- 01.11.2012-30.09.2016. Principal Investigator, Adrenergic regulation of Cav1.2 L-type calcium channels dynamics in neurons, € 362,458.95, FWF (Austrian Funding Agency) via competitive international peer-review process, Project contract: P 25085, Institute of Biophysics, Medical University of Graz, AT
- 01.08.2009-31.07.2012 Principal Investigator, Cav1.2 calcium channel dynamics in neuronal modulation, € 192,330.00, FWF (Austrian Funding Agency) via competitive international peer-review process, Project contract: T 443, Department of Physiology and Medical Physics, Medical University of Innsbruck, AT

Conseguimento di premi e riconoscimenti internazionali per attività di ricerca:

- 2012. Prize of the city of Innsbruck for scientific research", Innsbruck, AT
- 2.9.2007-22.9.2007. Selected for "European Synapse Summer School - Mechanisms and plasticity of synaptic transmission: from Receptors to Behaviour ", PENS Training Center, University of Bordeaux, Bordeaux, F

Partecipazione come relatore e presentazione poster alle seguenti conferenze e workshop:

- The 4th European Calcium Channel Conference, May 24-28, Alpbach, AT, Role Chair of one guided poster tour. Organizers G. Obermair, Karl Landsteiner University, Krems, AT; T. Gudermann, LMU Munich, DE; V. Flockerzi, Saarland University, DE; B. E. Flucher, Medical University of Innsbruck, AT; M. Biel, LMU Munich, DE; J. Striessnig, University of Innsbruck, AT
- Postranslational modifications in neuronal physiology and brain disorders, Webinar, Milan, 1, 5-6.7.2021, Invited speaker, L-type voltage gated calcium channels in regulation of dendritic growth, A. Folci, Humanitas & Institute of Neuroscience CNR, Milan, I; M. Fossati, Humanitas, Milan, I
- FASEB on Ion channel regulation, Steamboat Springs, Colorado, USA, 12.07.2017. Invited speaker, Imaging surface trafficking of Cav1.2 Ca²⁺ channels in neurons, M. Dell'Acqua, University of Colorado, USA; J. Trimmer, UC Davis, USA
- Meeting of the Austrian Neuroscience Association, Salzburg, AT, 25.09.2015, Contributed talk, Molecular mimicking of phosphorylation at S 1928 and S 1700-T1704 confers modified, surface traffic properties to Cav1.2 voltage gated calcium channels in cultured hippocampal neurons, Austrian Neuroscience Association
- Meeting of the Austrian Neuroscience Association, Alpbach, AT, 20.09.2011, Contributed talk, Surface traffic of dendritic Cav1.2 calcium channels in hippocampal neurons, Austrian Neuroscience Association
- Meeting of the Austrian Neuroscience Association, Salzburg, AT, 09.2009, Contributed talk, Stable membrane expression of CaV1.2 calcium channels is independent of activity related rearrangement of post-synaptic scaffold proteins, Austrian Neuroscience Association
- Università G. d'Annunzio, Chieti, 1, within the PhD School of Biomolecular and Pharmaceutical Sciences, 6.06.2022 A. Mollica & L. Giampietro, Fluorescence imaging of cultured neurons
- Università G. d'Annunzio, Chieti, 1, within the PhD School of Biomolecular and Pharmaceutical Sciences, 7.06.2022, A. Mollica & L. Giampietro, Voltage-gated calcium channels post-synaptic signaling in hippocampal neurons,

- 26.09.2019, University Hospital Regensburg, DE LS Maier & K. Hammer, Trafficking of L-type voltage gated calcium channels in excitable cells
- 07.03.2016, Cornell University, New York, USA A. Rajadhyaksha, Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of CaV1.2 calcium channels in hippocampal neurons
- UC Davis, Davis, California, USA, 25.01.2016, J.W. Hell, Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of CaV1.2 calcium channels in hippocampal neurons
- University of Innsbruck, Innsbruck, AT, 20.04.2015, J. Striessnig, Trafficking of phosphorylated CaV1.2 calcium channels in neurons
- Medical University of Graz, Graz, AT, 17.01.2012, K. Groschner, Surface traffic of dendritic CaV1.2 calcium channels in hippocampal neurons
- University of Iowa, Iowa City, Iowa, USA, 22.11.2010, A. Lee, currently at The University of Texas at Austin, Dynamics of CaV1.2 voltage gated calcium channels in cultured hippocampal neurons
- University of Pennsylvania, Philadelphia, Pennsylvania, USA 29.11.2010, C. Franzini-Armstrong, currently Emeritus, Dynamics of CaV1.2 voltage gated calcium channels in cultured hippocampal neurons
- Imperial College, London, Great Britain, 17.12.2010, A. Dolphin, Dynamics of CaV1.2 voltage gated calcium channels in cultured hippocampal neurons

Abstract a congressi:

- [1]. Molecular mimicking of phosphorylation at S1928 and S1700-T1704 confers modified surface traffic properties to Cav1.2 voltage gated calcium channels in cultured hippocampal neurons. Folci A, Steinberger A, Stanika R, Campiglio M, Ramprecht C, Obermair GJ, Heine M, Di Biase V. Ion Channel Regulation, FASEB, June 28- July 3 2015, Big Sky, Montana, USA
- [2]. Molecular mimicking of phosphorylation at S1928 and S1700-T1704 confers modified surface traffic properties to Cav1.2 voltage gated calcium channels in cultured hippocampal neurons Folci A., Steinberger A., Stanika R., Campiglio M., Ramprecht C., Obermair G. J., Heine M., Di Biase Biophysics, Los Angeles, March 7-11 2016.
- [3]. Activity of L-type voltage gated calcium channels regulates trafficking of GluA2-containing AMPARs. Folci A, Steinberger A, Di Biase V. FENS Forum of Neuroscience, July 2-6 2016, Copenhagen, Denmark.
- [4]. The developmental impact of calcium channel $\alpha_2\delta$ subunits on formation of neuronal network connectivity. Bikbaev A, Ciuraszkiewicz A, Hecka J, Klatt O, Freund R, Mitlöhner J, Obermair GJ, Di Biase V and Heine M. European Calcium Channel Conference, May 2-12 2018, Alpbach, Austria.
- [5]. Distinct impact of auxiliary $\alpha_2\delta$ subunits of calcium channels in developing neuronal networks. Bikbaev A, Ciuraszkiewicz A, Heck J, Klatt O, Freund R, Mitlöhner J, Obermair GJ, Di Biase V and Heine M. FENS Forum of Neuroscience, July 7-11 2018, Berlin, Germany.
- [6]. Alternative Splicing of Cav1.2 in ARVC Patients. Bourjau T, Di Biase V, Campiglio M, Giglberger M, Schober B, Stauber T, Pietrzyk G, Baessler A, Fischer M, Wagner S, Maier LS, Hammer KP. Biophysical Society Annual Meeting, February 15-19 2020, San Diego, USA
- [7]. Modulation of L-type calcium currents associates with changes of dendritic growth in hippocampal neurons. Lanzetti S, Mesirca P, Folci A, Maier R, Torre E, Rinner F, Campiglio M, Mangoni ME and Di Biase V. Fourth European Calcium Channel Conference, May 24-28 2022, Alpbach, Austria.

Attività di revisione per riviste:

- 11.2019. Member of the Scientific Panel for the evaluation of the Research Projects of the Department of Pharmaceutical and Pharmacological Sciences, University of Padova, 1
- Since 2020. Reviewing Editor for "Frontiers in Pharmacology" Member of the Editorial Board of the section "Pharmacology of Ion Channels and Channelopathies" of "Frontiers in Pharmacology"
- Cerebral Cortex, Archives of Biochemistry and Biophysics, Plos One, Channels

Indicare i titoli non considerati per la valutazione, riportando altresì il motivo: non pertinenti per il bando di valutazione in oggetto.

- June the 2nd 2022, Research grant proposal under review, Duration 4 years Type Transdisciplinary network project including 4 Principal Investigators. Role Co-Principal Investigator, Title, The role of high voltage-gated calcium channel $\beta 2$ subunit in health and disease, Budget Share~€ 350,000.00 of total€ 1,500,000.00, Funding agency FWF (Austrian Funding Agency) via competitive international peer-review process, Protocol Number KFG98 – B Evaluation step Passed the first evaluation step of the project proposal letter of intent. Invited for second phase evaluation by submission of extended version and second cycle international peer-review evaluation
- Date May 2016 Title Dealing with Challenging people situations, Speaker Dr. Indi Seehra, Director of Human Resources of the London School of Economics and previously of the University of Cambridge, UK, Host Institution Medical University of Graz AT
- May 2015, The accelerated Leadership journey, Dr. Indi Seehra, Director of Human Resources of the London School of Economics and previously of the University of Cambridge, UK, Host Institution Medical University of Graz AT
- Date Winter Semester 2014/2015, Title Teaching in English - Starting Content and Language Integrated Learning (CLIL), Host Institution organizer Medical University of Graz AT
- 15.05.2014. Gender & Diversity – Impulse, Dr. V. C. Kuckenberger, Head of the Gender Unit department of the Medical University of Graz, AT, Medical University of Graz, AT
- 24-26.09.2009. Advanced Scientific Writing, Dr. Ruth Willmott, Bioscript International, Vienna, AT, Medical University of Innsbruck, AT

Produzione scientifica

Nel curriculum presentato, la candidata riporta 12 pubblicazioni apparse su riviste internazionali, in 5 delle quali compare come primo autore o dichiara uguale contributo con esso. Le pubblicazioni vanno dal 2005 al 2022, con una media di 0,7 pubblicazioni l'anno.

Le 12 pubblicazioni presentate, così come quelle presenti nel curriculum, appaiono pienamente congruenti con il settore concorsuale di cui alla procedura comparativa.

Buona attività congressuale, con comunicazioni orali a diversi congressi e convegni.

Tutte le 12 pubblicazioni presentate sono state incluse nella valutazione.

GIUDIZI INDIVIDUALI

Commissario Prof. Massimo BRAMUCCI:

La candidata ha conseguito il dottorato di ricerca su tematiche attinenti al settore disciplinare oggetto del bando. La candidata ha svolto attività didattica a livello universitario all'estero, così come ottima appare l'attività di formazione o di ricerca presso istituti stranieri.

Le attività di organizzazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali o partecipazione agli stessi appaiono molto buone. La candidata non riporta titolarità di brevetti. La partecipazione in qualità di relatore a congressi e convegni nazionali e internazionali appare ottimo.

Nel curriculum la candidata riporta conseguimento di alcuni premi e riconoscimenti internazionali per attività di ricerca riconducibili al settore concorsuale di cui alla procedura comparativa. Non riporta alcun diploma di specializzazione europea riconosciuto da Board internazionali.

La produzione scientifica totale appare pienamente congruente al settore scientifico disciplinare oggetto di questa valutazione. L'intensità della produzione scientifica è discreta e la sua continuità è sufficiente (7 anni senza pubblicazioni). L'apporto individuale complessivo è da ritenersi buono (5 su 12 come primo nome). Infine, la qualità e la collocazione delle pubblicazioni valutabili rispetto al settore scientifico disciplinare oggetto di questo bando sono più che buone.

Commissario Prof. Paola D'ASCANIO:

La candidata ha conseguito il dottorato di ricerca su tematiche relative al settore disciplinare oggetto del bando. L'attività didattica a livello universitario, svolta all'estero, così come l'attività di formazione e di ricerca presso istituti stranieri risulta ottima. Ha ottenuto tre finanziamenti internazionali in qualità di investigatore principale e co-investigatore principale.

Le attività di organizzazione, partecipazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali appaiono molto buone. La partecipazione come relatore a congressi e convegni nazionali e internazionali appare ottima.

La candidata riporta il conseguimento di alcuni premi e riconoscimenti internazionali per attività di ricerca, pienamente compatibili con il settore concorsuale della procedura in oggetto.

La produzione scientifica totale appare pienamente congruente al settore scientifico disciplinare oggetto di questa valutazione. L'intensità della produzione scientifica presenta alcune discontinuità, pur rimanendo sufficiente. L'apporto individuale complessivo è da ritenersi più che buono. Infine, la qualità e la collocazione delle pubblicazioni valutabili rispetto al settore scientifico disciplinare oggetto di questo bando sono molto buone.

Commissario Prof. Marcello MASSIMINI:

La candidata ha conseguito il dottorato di ricerca su tematiche relative al settore disciplinare oggetto del bando. La candidata ha svolto attività didattica a livello universitario all'estero, così come ottima appare l'attività di formazione o di ricerca presso istituti stranieri.

Le attività di organizzazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali o partecipazione agli stessi appaiono molto buone. La candidata non riporta titolarità di brevetti. La partecipazione in qualità di relatore a congressi e convegni nazionali e internazionali appare ottimo.

Nel curriculum la candidata riporta conseguimento di alcuni premi e riconoscimenti internazionali per attività di ricerca riconducibili al settore concorsuale di cui alla procedura comparativa. Non riporta alcun diploma di specializzazione europea riconosciuto da Board internazionali.

La produzione scientifica totale appare pienamente congruente al settore scientifico disciplinare oggetto di questa valutazione. L'intensità della produzione scientifica presenta discontinuità ma è sufficiente. L'apporto individuale complessivo è da ritenersi più che buono. Infine, la qualità e la collocazione delle pubblicazioni valutabili rispetto al settore scientifico disciplinare oggetto di questo bando sono molto buone.

GIUDIZIO COLLEGIALE

La candidata, presenta titoli di studio, attività di ricerca e didattica congruenti con il settore disciplinare oggetto del bando. Presenta una produzione scientifica rilevante nell'ambito dello stesso settore che evidenzia creatività e piena autonomia, confermate da discreta continuità e da un'ottima qualità e diffusione delle pubblicazioni.

In conclusione, la candidata è ritenuta ampiamente meritevole di ricoprire la carica in oggetto.

Dichiarazione di concordanza da allegare al verbale n. 2

PROCEDURA PUBBLICA DI SELEZIONE PER L'ASSUNZIONE DI N. 1 RICERCATORE A TEMPO DETERMINATO, AI SENSI DELL'ART. 24 COMMA 3 LETT. B) DELLA LEGGE N. 240/2010, PER IL SETTORE CONCORSUALE 05/D1 "Fisiologia" - SETTORE SCIENTIFICO-DISCIPLINARE BIO/09 "Fisiologia" - SCUOLA DI Scienze del Farmaco e dei Prodotti della Salute UNIVERSITA' DEGLI STUDI DI CAMERINO, BANDITA CON D.R. PROT. N. 22852 DEL 5 aprile 2022, IL CUI AVVISO È STATO PUBBLICATO SULLA G.U. – IV SERIE SPECIALE - N. 35 DEL 3 maggio 2022

Il sottoscritto/a Prof.ssa Paola d'Ascanio, componente della Commissione giudicatrice della procedura selettiva indicata in epigrafe, dichiara con la presente di aver partecipato, via telematica, alla valutazione preliminare dei candidati della suddetta procedura e di concordare con il verbale a firma del Prof. Massimo Bramucci, redatto in data 05/10/2022, che sarà presentato al Responsabile del procedimento per i provvedimenti di competenza.

Data, 05.10.2022

In fede,



Prof.ssa Paola d'Ascanio

Dichiarazione di concordanza da allegare al verbale n. 2

PROCEDURA PUBBLICA DI SELEZIONE PER L'ASSUNZIONE DI N. 1 RICERCATORE A TEMPO DETERMINATO, AI SENSI DELL'ART. 24 COMMA 3 LETT. B) DELLA LEGGE N. 240/2010, PER IL SETTORE CONCORSUALE 05/D1 "Fisiologia" - SETTORE SCIENTIFICO-DISCIPLINARE BIO/09 "Fisiologia" - SCUOLA DI Scienze del Farmaco e dei Prodotti della Salute UNIVERSITA' DEGLI STUDI DI CAMERINO, BANDITA CON D.R. PROT. N. 22852 DEL 5 aprile 2022, IL CUI AVVISO È STATO PUBBLICATO SULLA G.U. – IV SERIE SPECIALE - N. 35 DEL 3 maggio 2022

Il sottoscritto/a Prof. Marcello Massimini, componente della Commissione giudicatrice della procedura selettiva indicata in epigrafe, dichiara con la presente di aver partecipato, via telematica, alla valutazione preliminare dei candidati della suddetta procedura e di concordare con il verbale a firma del Prof. Massimo Bramucci, redatto in data 05/10/2022, che sarà presentato al Responsabile del procedimento per i provvedimenti di competenza.

Data, 05.10.2022

In fede,



Prof. Marcello Massimini