

Curriculum Vitae**Dr. Valentina Di Biase, PhD****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 on Synaptogenesis WS2020/2021, 0.67 semester hours, for undergraduate students of the Molecular Medicine Master degree Lecturer of the “Ca _v X 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
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
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

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 β 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

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

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
 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. Kuckenberger, 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
 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 $\beta 4$ 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

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 Postranslational 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. Folci, 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 Ca _v 1.2 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 Ca _v 1.2 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 Ca _v 1.2 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 Ca _v 1.2 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
Inviting person	A. Rajadhyaksha
Title of the contribution	Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of Ca _v 1.2 calcium channels in hippocampal neurons
Date & Institution	UC Davis, Davis, California, USA, 25.01.2016
Inviting person	J.W. Hell
Title of the contribution	Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of Ca _v 1.2 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 Ca _v 1.2 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

LATEST ABSTRACTS AT CONGRESSES

- [1]. Molecular mimicking of phosphorylation at S1928 and S1700-T1704 confers modified surface traffic properties to $\text{Ca}_v1.2$ 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 $\text{Ca}_v1.2$ 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, Heck 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 $\text{Cav}1.2$ 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.

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, 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 $\alpha 2\delta 1$ 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, 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 $\text{Ca}_v1.2$ 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 $\text{Ca}_v1.2$ 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, Kofler R, Geley S, Wille A, Lusser A, Flockerzi V, Flucher BE. *Differential Neuronal Targeting of a New and Two Known Calcium Channel β_4 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 beta subunits in a native Ca^{2+} 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

[7] **Di Biase V**, Tuluc P, Campiglio M, Obermair GJ, Heine M, Flucher BE. *Surface Traffic of Dendritic Ca_v1.2 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 Ca_v1.2 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