

## CURRICULUM VITAE ET STUDIORUM

**Surname:** BRINI

**First name:** MARISA

**Affiliation and official address:** Associate Professor at the Dept. of Biology, University of Padova, Via Ugo Bassi 58/b 35131 Padova, Italy.

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**Nationality:** Italian

### EDUCATION AND TRAINING:

1985: High School final examination (Maturità Scientifica)

1990: B.S. degree summa cum laude at the University of Padova

1991-1992: Practical training post lauream

1992: State certification exam for the profession of Biologist

1991-1995: Ph.D. in "Molecular and Cellular Biology and Pathology" at the University of Padova

### EMPLOYMENT AND RESEARCH EXPERIENCE

1996: "International Human frontier Science Program" fellowship on the topic "Control mechanisms of intracellular Ca<sup>2+</sup> homeostasis", on the RG-520/95 M contract of Prof. T. Pozzan (University of Padova).

1996-1998: "Telethon" fellowship on a project titled "Nuclear calpain in cell death with special attention to the development of muscular dystrophy", in collaboration with Prof. E. Carafoli (ETH, Zurich and University of Padova).

1998-2011: Assistant Professor in Biochemistry at the University of Padova

2011-to date: Associate Professor in Biochemistry at the University of Padova

2012-to date: National Qualification to Full Professor in Biochemistry

2016-to date: National Qualification to Full Professor in Biochemistry

### INSTITUTIONAL RESPONSABILITIES

2000-2013 Teaching Committee of Doctoral School of Veterinary Medicine

2003-2013 Member of the Centro Linguistico di Ateneo (CLA, University of Padova) as delegate for the Vet Faculty

2013-to date Member of the GAV (Gruppo per l'accreditamento e la valutazione) Committee in Biotechnology degree

2014-to date Teaching Committee of Doctoral School of Biosciences

2021-to date Head of the course for Bachelor degree in Biology and of the Master degrees in Evolutionary Biology and Marine Biology

### AWARDS

1990: "Consorzio Padova Ricerche" Award to thesis projects (thesis title: Molecular analysis of nuclear-encoded genes of cytochrome c oxidase of *Dictyostelium discoideum*).

2001: Accademia Nazionale dei Lincei "Fondazione Dott. Giuseppe Borgia" Award to Biological Sciences.

2003: University of Padua and Cassa di Risparmio di Padova e Rovigo "StartCup2003" First Award to Innovation.

### SCIENTIFIC ACHIEVEMENT

Prof. Brini was trained in molecular and cellular biology and has a long-time interest and expertise in mitochondrial physiology and signal transduction. As a part of her Ph.D. training, she developed the recombinant photoproteins for the study of Ca<sup>2+</sup> homeostasis and metabolism (ATP) in defined subcellular compartments, i.e., mitochondria, nucleus and endoplasmic reticulum. The methodological background also includes the chimeric green fluorescent proteins (GFPs) for morphology and calcium signalling studies, and experience in advanced microscopy (digital and confocal microscopes, and image processing algorithms).

After obtaining the PhD degree and an independent tenured position as assistant professor, Prof. Brini focused her scientific interests on the study of the interplay of the Ca<sup>2+</sup> membrane transport proteins in living cells, with special focus on the alterations occurring in pathological conditions.

Since 1998 she coordinated the activity of a research team composed, on average, of 2-4 persons and is responsible for the training of Master degree and Ph.D. students.

In the last ten years Prof. Brini research interest focused on intracellular Ca<sup>2+</sup> signaling; mitochondrial Ca<sup>2+</sup> homeostasis and its role in aerobic metabolism; pathogenic mechanisms of mitochondrial diseases; functional analysis of Ca<sup>2+</sup> transporting proteins in living cells, with a special attention to the plasma membrane Ca<sup>2+</sup>-ATPases; analysis of Ca<sup>2+</sup> homeostasis in living cells carrying mutations in isoform 2 of the plasma membrane Ca<sup>2+</sup>-ATPase causing hearing loss and in isoform 3 causing cerebellar ataxia; mitochondria and their crosstalk in cell physiology and pathophysiology with a special attention to the action of Parkinson disease-related proteins (alpha-synuclein, PINK1, Parkin and DJ-1) on mitochondrial function as documented by the most recent publications. Recent work involves issues about the relationship between the endoplasmic reticulum and mitochondria, and the study of organelles communication by the development of new recombinant tools based on splitGFP to monitor organelles contact sites and sub-mitochondrial distribution of proteins of interest.

#### RESEARCH GRANTS:

Prof. Brini has been involved in several research projects and scientific collaborations as co-investigator and she had received grants as Principal Investigator from the National Research Council (CNR 2000), from the Italian Ministry of University and Scientific Research (PRIN 2003, 2005 and 2008), from the Telethon Foundation (2004-2007), from the Local Committee of the University of Padua (Progetto di Ateneo 2008, Progetto di Ateneo 2015, SEED 2020), from Intesa San Paolo (2020)

#### MEMBERSHIPS

2017 to date: Member of the Italian Society of Cell Biology and Differentiation (ABCD)

2019 to date: Member of Top Italian Women Scientists (TIWS) consortium and ONDA Club (Osservatorio nazionale sulla salute della donna e di genere) (<https://www.ondaosservatorio.it/progetti-onda/tiws-top-italian-women-scientists/>).

#### EDITORIAL BOARD MEMBER

Cells (MDPI)

DNA and Cell Biology (Mary Ann Liebert)

Frontiers in Physiology and Frontiers in Cell and Developmental Biology (section Mitochondrial Research)

#### EDITORIAL ACTIVITY:

Ad Hoc reviewer for international scientific journals (Nature, J. Cell Biol., EMBO J., J. Neurochem., Neurochemistry, Biophysical Biochimica Acta, J. Biol. Chem., FEBS, Cell Calcium, Frontiers, Cell death and disease, Cell death and differentiation, etc.) and Review Agencies (VQR 2004-2010, VQR 2011- 2014; MIUR (Italy); French National Research Agency (ANR); Wellcome Trust (UK); National Science Centre (Narodowe Centrum Nauki – NCN; Poland); AICR (UK); Tiroler Wissenschaftsfonds (Austria); Israeli Ministry of Science (Israel), Research Foundation Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO, Belgium) Action for A-T (Australia), Dutch Research Council (NWO, Netherlands).

She has been invited to videotape a talk on “Monitoring Ca<sup>2+</sup> concentration in living cells,, for the CD series on “Calcium Signalling,, edited by Henry Stewart Talks (2006).

She is co-editor of a book entitled “Calcium Signalling and Disease,, edited by Springer (2007), of a Special Issue in Biofactors on “Calcium Signaling and disease” (vol. 37 2011), of a Special Issue in Neurosciences Letters on “Calcium Pumps and Exchangers in Neuronal Injury and Neurodegeneration” (vol 663 2018), Elsevier, of a Special Issue in Cells on “Membrane Contact Sites with Mitochondria: Molecular Determinants and Pathophysiological Role” (vol. 8 2019) and of a Special Issue in DNA and Cell Biology on “ Mitochondrial DNA in health and disease “ (2020)

2009: External evaluator for PhD Thesis, University of Manchester, UK  
28 March 2014: Evaluator in the final examination Committee PhD in Biochemistry, Molecular Biology and Biotechnology, University of Ferrara  
4 April 2014: Evaluator in the final examination Committee PhD in Biochemistry and Biotechnology, curriculum Cell Biology, University of Padova  
2015 and 2016: External evaluator for PhD Thesis, University of Queensland, Australia  
20 March 2017: Evaluator in the final examination Committee PhD in Biochemistry and Biotechnology, curriculum Cell Biology, University of Padova  
6 April 2017: Evaluator in the final examination Committee PhD in Biochemistry and Biotechnology, curriculum Neurosciences, University of Padova

#### TEACHING ACTIVITY:

Prof. Brini taught Biochemistry and Inorganic Chemistry (from 1998 to 2007) at the Veterinary Medicine Faculty of the University of Padua. From 2008-2014 she taught Molecular Biology at the Veterinary Medicine Faculty of the University of Padua. From 2014 she teaches Biochemistry to the students of Biotechnology and Biology at the Sciences School. From 2000 to 2013 she participated to the Teaching Committee of Doctoral School of Veterinary Medicine and since 2014 to the Teaching Committee of Doctoral School of Biosciences and acts as Tutor for PhD students.

#### GLOBAL SCIENTIFIC PRODUCTION

119 publications in international peer-reviewed journals, 22 book chapters  
Total citations: 11962 (without self citations: 11419)  
h-index: 49 (ISI Web of Knowledge)

#### RESEARCHER UNIQUE IDENTIFIERS

Orcid: [orcid.org/0000-0001-5141-0243](https://orcid.org/0000-0001-5141-0243)  
Scopus Author ID: 7004116679  
Research ID Thompson Web of Science: K-5189-2016

#### Publications

##### A- Peer reviewed international journals:

1. Rizzuto, R., Sandonà, D., **Brini, M.**, Capaldi, R.A. & Bisson, R.: The most conserved nuclear-encoded polypeptide of cytochrome c oxidase is the putative zinc-binding subunit: primary structure of subunit V from the slime mold *Dictyostelium discoideum*. *Biochim. Biophys. Acta* (1991) 1129, 100-104.
2. Piccolo, G., Azan, G., Banfi, P., Sandonà, D., **Brini, M.**, Bisson, R. & Rizzuto, R.: Clinical, morphological and molecular genetic studies in patients with progressive external ophthalmoplegia and mitochondrial myopathy. *Ital. J. Neurol. Sci.* (1992) Suppl.1, 91-94.
3. Rizzuto, R., Simpson, A.W.M., **Brini, M.** & Pozzan, T.: Rapid changes of mitochondrial  $Ca^{2+}$  revealed by specifically targeted recombinant aequorin. *Nature* (1992) 358, 325-328.
4. Rizzuto, R., Sandonà, D., **Brini, M.**, Marschalek, R., Dingermann, T. & Bisson, R.: Structure of the promoter region of the gene encoding cytochrome c oxidase subunit V in *Dictyostelium*. *Eur. J. Biochem.* (1993), 211, 411-414.
5. Rizzuto, R., **Brini, M.** & Pozzan, T.: Intracellular targeting of the photoprotein aequorin: a new approach for measuring, in living cells,  $Ca^{2+}$  concentrations in defined cellular compartments. *Cytotechnology* (1993), 11, 44-46.
6. Volpe, P., Gorza, L., **Brini, M.**, Sacchetto, R., Ausoni, S. & Clegg, D. : Expression of the calsequestrin gene in chicken cerebellum Purkinje neurons. *Biochem. J.* (1993), 294, 487-490.
7. Rizzuto, R., **Brini, M.**, Murgia, M. & Pozzan, T. : Microdomains of high  $Ca^{2+}$  close to inositol-triphosphate sensitive channels are sensed by neighboring mitochondria. *Science* (1993), 262, 744-747.
8. **Brini, M.**, Murgia, M., Pasti, L., Picard, D., Pozzan, T. & Rizzuto, R. : Nuclear  $Ca^{2+}$  concentration measured with specifically targeted recombinant aequorin. *EMBO J.* (1993), 12, 4813-4819.

9. Cantini, M., Massimino, M.L., Catani, C., Rizzuto, R., **Brini, M.** & Carraro, U. : Gene transfer into satellite cell from regenerating muscle: Bupivacaine allows  $\beta$ -GAL transfection and expression in vitro and in vivo. *In Vitro Cellular & Developmental Biology* (1994), 30A, 131-133.
10. Rizzuto, R., **Brini, M.** & Pozzan, T.: Targeting recombinant aequorin to specific intracellular organelles. *Methods in Cell. Biol.* (1994), 40, 339-358.
11. **Brini, M.**, Pasti, L., Bastianutto, C., Murgia, M., Pozzan, T. & Rizzuto, R. : Targeting of aequorin for calcium monitoring in intracellular compartments. *J. Biolumin. Chemilumin.* (1994), 9, 177-184.
12. Murgia, M., Mion, M., Veronese, L., Panozzo, M., Rizzuto, R., **Brini, M.**, Malavasi, F., Amadori, A., Chieco Bianchi, L. & Pozzan, T. : Cytosolic free calcium concentration in the mitogenic stimulation of T lymphocytes by anti-CD3 monoclonal antibodies. *Cell Calcium* (1994), 16, 167-180.
13. Rizzuto, R., Bastianutto, C., **Brini, M.**, Murgia, M. & Pozzan, T.: Mitochondrial  $\text{Ca}^{2+}$  homeostasis in intact cells. *J. Cell Biol.* (1994), 126, 1183-1194.
14. **Brini, M.**, Marsault, R., Bastianutto, C., Pozzan, T. & Rizzuto, R.: Nuclear targeting of aequorin. A new approach for measuring nuclear  $\text{Ca}^{2+}$  concentration in intact cells. *Cell Calcium* (1994), 16, 259-268.
15. Rizzuto, R., **Brini, M.**, Bastianutto, C., Marsault, R. & Pozzan, T.: Photoprotein mediated measurement of  $[\text{Ca}^{2+}]$  in mitochondria of living cells. *Meth. in Enzymology* (1995) , 260, 417-428
16. **Brini, M.**, Marsault, R., Bastianutto, C., Alvarez, J., Pozzan, T. & Rizzuto, R.: Transfected aequorin in the measurement of cytosolic  $\text{Ca}^{2+}$  concentration ( $[\text{Ca}^{2+}]$ ) : a critical evaluation. *J. Biol. Chem.* (1995), 270, 9896-9903.
17. Rizzuto, R., **Brini, M.**, Pizzo, P., Murgia, M. & Pozzan, T. : Chimeric green fluorescence protein (GFP): a new tool for visualizing subcellular organelles in living cells. *Current Biology* (1995), 5, 635-642.
18. Montero, M., **Brini, M.**, Marsault, R., Alvarez, J., Sitia, R., Pozzan, T. & Rizzuto, R.: Monitoring dynamic changes in free  $\text{Ca}^{2+}$  concentration in the endoplasmic reticulum of intact cells. *EMBO J.* (1995), 14, 5467-5475.
19. Rizzuto, R., **Brini, M.**, De Giorgi, F., Rossi, R., Heim, R., Tsien, R.Y. & Pozzan, T.: Double labelling in vivo of subcellular structures with organelle-targeted GFP mutants. *Current Biology* (1996), 6, 183-188.
20. De Giorgi, F., **Brini, M.**, Bastianutto, C., Marsault, R., Montero, M., Pizzo, P., Rossi, R. & Rizzuto, R.: Targeting aequorin and green fluorescent protein to intracellular organelles. *Gene* (1996), 173, 113-117.
21. Rutter, G.A, Burnett, P., Rizzuto, R., **Brini, M.**, Murgia, M., Pozzan, T., Tavaré, J.M. & Denton, R.M.: Subcellular imaging of intramitochondrial  $\text{Ca}^{2+}$  with recombinant target aequorin. *Proc. Natl. Acad. Sci. USA* (1996) 93, 5489-5494
22. **Brini, M.**, De Giorgi, F., Murgia, M., Marsault, R., Massimino, M. L., Cantini, M., Rizzuto, R. & Pozzan, T.: Subcellular analysis of  $\text{Ca}^{2+}$  homeostasis in primary cultures of skeletal muscle myotubes. *Mol. Biol. of the Cell* (1997), 8, 129-143.
23. Szabo, I., Bãthori, G., Tombola, F., **Brini, M.**, Coppola, A. & Zoratti, M. : DNA translocation across planar bilayers containing *Bacillus subtilis* ion channels. *J. Biol. Chem.* (1997), 272, 25275-25282.
24. Szabo, I., Bãthori, G., Tombola, F., Coppola, A., Schmehl, I, **Brini, M.**, Ghazi, A., De Pinto, V. & Zoratti, M. : Double-stranded DNA can be translocated across a planar membrane containing purified mitochondrial porin. *FASEB J.* (1998), 12, 495-502.
25. Pinton, P., **Brini, M.**, Bastianutto, C., Tuft, R.A., Pozzan, T. And Rizzuto, R. : New light on mitochondrial calcium. *Biofactors* (1998), 8, 243-253.
26. De Giorgi, F., Ahmed, Z., Bastianutto, C., **Brini, M.**, Jouaville, L.S., Marsault, R., Murgia, M., Pinton, P., Pozzan, T. & Rizzuto, R. : Targeting GFP to organelles. *Meth. in Cell. Biol.* (1999), 58, 75-85.
27. Petronilli, V., Miotto, G., Canton, M., **Brini, M.**, Colonna, R., Bernardi, P. & Di Lisa, F. : Transient and long lasting openings of the mitochondrial permeability transition pore can be monitored directly in intact cells by mitochondrial calcein release. *Biophys. J* (1999), 76, 725-734.
28. **Brini, M.**, Pinton, P., Pozzan, T. & Rizzuto, R. : Targeted recombinant aequorins: tools for monitoring  $[\text{Ca}^{2+}]$  in the various compartments of a living cell. *Microsc. Res. Tec.* (1999), 46, 380-389.
29. **Brini, M.**, Pinton, P., King, M.P., Davidson, M., Schon, E. A. & Rizzuto, R.: A calcium signalling defect in the pathogenesis of a mtDNA-inherited oxidative phosphorylation deficiency. *Nature Med.* (1999), 5, 951-954.
30. Branca, D., Gugliucci, A., Bano, D., **Brini, M.** & Carafoli, E. : Expression, partial purification and functional properties of the muscle-specific calpain isoform p94. *Eur. J. Bioch.* (1999), 265, 839-846.

31. Rizzuto, R. Pinton, P., **Brini, M.**, Chiesa, A., Filippin, L. & Pozzan, T.: Mitochondria as biosensors of calcium microdomains. *Cell Calcium* (1999), 26, 193-199.
32. **Brini, M** & Carafoli, E.: Calcium signalling: an historical account, recent developments and future perspectives. *Cell. Mol. Life Sci.* (2000), 57, 354-370.
33. Carafoli, E. & **Brini, M.**: Calcium Pumps. Structural basis for and mechanism of calcium transmembrane transport. *Current Opinion in Chem. Biol.* (2000), 4, 152-161.
34. **Brini, M.**, Bano, D., Manni, S., Rizzuto, R. & Carafoli, E.: Effects of PMCA and SERCA pump overexpression on the kinetics of cell  $Ca^{2+}$  signalling. *EMBO J.* (2000), 19, 4926-4935.
35. Carafoli, E., Santella, L. Branca, D. & **Brini, M.**: Generation, control, and processing of cellular calcium signals. *Crit. Rev. Biochem. Mol.* (2001), 36, 107-260.
36. Chami, M., Gozuacik, D., Lagorce, D., **Brini, M.**, Falson, P., Peaucellier, G., Pinton, P., Lecoeur, H., Gougeon, M.-L., Le Maire, M., Rizzuto, R., Bréchet, C. & Paterlini-Bréchet, P.: SERCA1 truncated proteins unable to pump calcium reduce the ER calcium concentration and induce apoptosis. *J. Cell. Biol.* (2001), 153, 1301-1313.
37. Navazio, L., Moscatiello, R., Bellincampi, D., Baldan B., Meggio, F., **Brini, M.**, Bowler, C., & Mariani, P.: The role of calcium in oligogalacturonide-activated signalling in soybean cells. *Planta* (2002) 215, 596-605.
38. **Brini, M.**, Manni, S., & Carafoli, E.: Recombinant expression of the plasma membrane  $Na^+/Ca^{2+}$  exchanger affects local and global  $Ca^{2+}$  homeostasis in chinese hamster ovary cells. *J. Biol. Chem.* (2002), 277, 38693-38699.
39. **Brini, M.**, Manni, S., & Carafoli, E.: A study of the activity of the plasma membrane Na/Ca exchanger in the cellular environment. *Ann. N.Y. Acad. Sci. New York Academy of Sciences* (2002) 976, 376-381.
40. **Brini, M.**, Coletto, L., Pierobon, N., Kraev, N., Guerini, D., & Carafoli, E.: A comparative functional analysis of plasma membrane  $Ca^{2+}$  pump isoforms in intact cells. *J. Biol. Chem.* (2003), 278, 24500-24508.
41. **Brini, M.**:  $Ca^{2+}$  signalling in mitochondria: mechanism and role in physiology and pathology. *Cell Calcium* (2003), 34, 399-405.
42. **Brini, M.**: Ryanodine Receptor defects in muscle genetic diseases. *Biochem. Biophys. Res. Comm.* (2004), 322, 1245-1255.
43. **Brini, M.**, Manni, S., Pierobon, N., Du, G.G., Sharma, P., Maclennan, D.H., & Carafoli, E.:  $Ca^{2+}$  signaling in HEK-293 and skeletal muscle cells expressing recombinant ryanodine receptors harbouring malignant hyperthermia and central core disease mutations. *J. Biol. Chem.* (2005), 280, 15380-15389.
44. **Brini, M.**, Miuzzo, M., Pierobon, N., Negro, A. & Sorgato, M.C.: The Prion Protein and its Paralogue Doppel Affect Calcium Signalling in CHO Cells. *Mol. Biol. of the Cell* (2005), 16, 2799-2808.
45. Leo, S., Bianchi, K., **Brini, M.**, Rizzuto, R.: Mitochondrial calcium signalling in cell death. *FEBS J.* (2005), 272, 4013-4022.
46. Rimessi, A., Coletto, L., Pinton, P., Rizzuto, R., **Brini, M.**, Carafoli, E.: Inhibitory interaction of protein 14-3-3  $\eta$  with isoform 4 of the plasma membrane  $Ca^{2+}$  pump. *J. Biol. Chem.* (2005), 280, 37195-37203.
47. Pulina, M.V., Rizzuto R., **Brini, M.**, Carafoli, E.: Inhibitory interaction of the plasma membrane  $Na^+/Ca^{2+}$  - exchangers with the 14-3-3 proteins. *J. Biol. Chem.* (2006), 281, 19645-19654.
48. Ficarella R, Di Leva F, Bortolozzi M, Ortolano S, Donaudy F, Petrillo M, Melchionda S, Lelli A, Domi T, Fedrizzi L, Lim D, Shull GE, Gasparini P, **Brini M\***, Mammano F, Carafoli E. : A functional study of plasma-membrane calcium-pump isoform 2 mutants causing digenic deafness. *Proc Natl Acad Sci U S A.* (2007), 104, 1516-1521. **\*Co-Corresponding Author**
49. Domi, T., Di Leva, F., Fedrizzi, L. , Rimessi, A. **Brini, M.**: Functional specificity of PMCA isoforms? *Ann. N.Y. Acad. Sci. New York Academy of Sciences* (2007), 1099, 237-246.
50. **Brini, M.**, Di Leva, F., Domi, T., Fedrizzi, L., Lim, D., Carafoli, E.: Plasma membrane calcium pumps and hereditary deafness *Biochem. Soc. Trans.* (2007), 35(Pt 5):913-918
51. Lim, D. Fedrizzi, L., Tartari, M., Zuccato, C., Cattaneo, E., **Brini, M.**, Carafoli, E.: Calcium homeostasis and mitochondrial dysfunction in striatal neurons of Huntington's disease. *J. Biol. Chem.* (2008), 283, 5780-5789.
52. Linde, I.C., Di Leva, F., Domi, T., Tosatto, S.E., **Brini, M. \***, Carafoli, E.: Inhibitory interaction of the 14-3-3 proteins with ubiquitous (PMCA1) and tissue specific (PMCA3) isoforms of the plasma membrane  $Ca^{2+}$  pump. *Cell Calcium* (2008), 43, 550-561. **\*Co-Corresponding Author**
53. Spiden, S.L., Bortolozzi, M., Di Leva, F., de Angelis, M.H., Fuchs, H., Lim, D., Ortolano, S., Ingham, N.J. **Brini, M.\***, Carafoli, E., Mammano, F., Steel, K.P.: The Novel Mouse Mutation *Oblivion* Inactivates the PMCA2 Pump

and Causes Progressive Hearing Loss. *Plos Genetic* (2008), Oct;4(10):e1000238. Epub 2008 Oct 31. \***Co-Corresponding Author**

54. Fedrizzi, L., Lim, D. Carafoli, E., **Brini, M.** Interplay of the Ca<sup>2+</sup>-binding protein DREAM with presenilin in neuronal Ca<sup>2+</sup> signaling. *J Biol. Chem.* (2008), 283, 27494-27503.

55. **Brini, M.:** Ca<sup>2+</sup>-sensitive photoproteins. *Methods* (2008), 46, 160-166.

56. **Brini, M.:** Plasma membrane Ca<sup>2+</sup>-ATPase: from a housekeeping function to a versatile signaling role. *Pflugers Archiv-Eur. J. Physiol.* (2009), 457,657-664.

57. Celsi, F., Pizzo, P., **Brini, M.**, Leo, S., Fotino, C., Pinton, P., Rizzuto, R.: Mitochondria, calcium and cell death: a deadly triad in neurodegeneration. *Bioch. Biophys. Acta* (2009), 1787, 335-344.

58. **Brini M.**, Carafoli, E. Calcium pumps in health and disease. *Physiol. Rev.* (2009), 89, 1341-1378.

59. **Brini M.**, Di Leva F., Claudia K. Ortega, C.K., Domi, T., Ottolini, D., Leonardi, E., Tosatto, S.C.E., Carafoli, E. Deletions and Mutations in the Acidic Lipid-binding Region of the Plasma membrane Ca<sup>2+</sup> pump: a study on different splicing variants of isoform 2. *J Biol. Chem.* (2010), 285, 30779-91.

60. Jiang, L., Allagnat, F., Nguidjoe, E., Kamagate, A., Pachera, N., Vanderwinden, J.M., **Brini, M.**, Carafoli, E., Eizirik, D.L., Cardozo, A.K., Herchuelz, A. Plasma membrane Ca<sup>2+</sup>-ATPase overexpression depletes both mitochondrial and endoplasmic reticulum Ca<sup>2+</sup> stores and triggers pancreatic  $\beta$ -cell apoptosis. *J Biol. Chem.* (2010), 285, 30634-43.

61. Bortolozzi, M.; **Brini, M. \***, Parkinson N., Crispino, G., Scimemi, P., De Sisti, R.D., Di Leva, F., Parker A., Ortolano, S., Arslan E., Brown S., Carafoli, E., Mammano, F. The novel PMCA2 pump mutation *Tommy* impairs cytosolic calcium clearance in hair cells and links to deafness in mice. *J Biol. Chem.* (2010), 285, 37693-703 \*  
**Co-first Author**

62. **Brini, M.**, Carafoli, E. The plasma membrane Ca<sup>2+</sup> ATPase and the plasma membrane sodium calcium exchanger cooperate in the regulation of cell calcium. *Calcium Signalling.* edited by M. Bootman, M. Berridge, J. Putney, L. Roderick, *Cold Spring Harbor Perspectives in Biology*, Cold Spring Harbor Laboratory Press (2011), 3:a004168.

63. Calì, T., Ottolini, D. **Brini, M.** Mitochondria, Calcium and Endoplasmic Reticulum stress in Parkinson's disease. *Biofactors* (2011), 37, 228-240.

64. **Brini, M.** and Carafoli, E. Editorial Calcium signaling and disease: Preface. *Biofactors* (2011), 37, 131.

65. Giorgi, C, Romagnoli A, Agnoletto C, Bergamelli L, Sorrentino G, **Brini M**, Pozzan T, Meldolesi J, Pinton P, Rizzuto R. Translocation of signalling proteins to the plasma membrane revealed by a new bioluminescent procedure. *BMC Cell Biol.* (2011), 12, :27.

66. Zonin, E. Moscatiello, R. Miuzzo, M. Cavallarin, N., Di Paolo, M.L., Sandonà, D., Marin, O., **Brini, M.**, Negro, A., Navazio, L. TAT-mediated Aequorin Transduction: an Alternative Approach for Effective Calcium Measurements in Plant Cells. *Plant Cell Physiol.*(2011), 52, 2225-2235.

67. Giacomello, M., De Mario, A., Lopreiato, R. Primerano, S., Campeol, M., **Brini, M.** Carafoli, E. Mutations In PMCA2 And Hereditary Deafness: A Molecular Analysis Of The Pump Defect. *Cell Calcium* (2011) 50, 569-576.

68. Calì, T., Ottolini, D., **Brini, M.** Mitochondrial Ca<sup>2+</sup> as a key regulator of mitochondrial activities. *Advances in Mitochondrial Medicine, Adv Exp Med Biol* series edited by R. Scatena, B. Giardina, P. Bottoni Springer Science+Business Media (2012), 942, 53-73.

69. **Brini, M.** Calì, T., Ottolini, D. Carafoli, E. Ca<sup>2+</sup> pumps: why so many? *Comprehensive Physiology* (2012), Volume 2, Issue 2, April 2012, 1045-1060. DOI: 10.1002/cphy.c110034

70. Giacomello M., De Mario A., Primerano S., **Brini M.**, Carafoli E. Hair cells, plasma membrane Ca<sup>2+</sup> ATPase and deafness. *Int J Biochem Cell Biol.* (2012), 44, 679-683.

71. Calì, T., Fedrizzi, L., Ottolini, D., Gomez-Villafuertes, R., Mellström, B., Naranjo, J.R., Carafoli, E., **Brini, M.** Ca<sup>2+</sup>-activated nucleotidase 1, a novel target gene for the transcriptional repressor DREAM (Downstream Regulatory Element Antagonist Modulator), is involved in protein folding and degradation. *J Biol. Chem.* (2012), 287, 18478-18491.

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