

## **CURRICULUM VITAE**

*Name:* Michele Mazzanti, Ph.D.

*Title:* Full Professor

*Birthdate:* June 19, 1956, Rovereto, Trento, Italy

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*Languages:* Italian, English, French

*Education:* Degree Conferred Field of Study

State Univ. of Milano, Milano, Italy B.S. 1984 Faculty of Science State Univ. of Milano,  
Milano, Italy Ph.D. 1988 Physiology and Biophysics

### *Academic and Research Position:*

2017- Visiting Scientist EURAC Biomedicine, Bolzano

2011- Visiting Scientist IFOM Campus, Milan

2007-208 Visiting Professor Dept. of Physiology, UCL, London, UK

2006- Present. Full Professor. Dept. of Life Science, University of Milano, Italy

2001 Full Professor, Dept. of Cell and Dev. Biology, University "La Sapienza" Roma, Italy

1998 Associate Professor, Dept. of Cell and Dev. Biology, University "La Sapienza" Roma, Italy

1997 Visiting Professor, University of South Wales and St. Vincent Hospital, Sydney, Australia

1996 Visiting Professor, Institute of Physiology, Wuerzburg, Germany

1994 Visiting Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.

1992 Visiting Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.

1991 Assistant Professor, Dept. of Physiology and Biochemistry, Milano State University, Milano, Italy.

1990 Visiting Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.

1990 Visiting Professor, Dept. of Physiology, Bogolmez Institute, Kiev, Ukraine.

1989-90 Asst. Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.

1988-89 Research Assoc., Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.

1987-88 Research Assoc., Dept. of Physiology, State Univ. of Milan, Milan, Italy.

1985-87 Research Assoc., Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.

1984-85 Research Assoc., Dept. of Physiology, State University of Milan, Milan, Italy.

1984 Research Assoc., Inst. of Human Physiology, Milan Medical School, Milan, Italy.

### *Professional Experience:*

March 1984: BS Physiological Science

March/September 1984: Research Assoc., Milan Medical School, Milan, Italy

October 1984-January 85. Research Assoc., Dept. of Physiology, Milan, Italy.

February 1985: Research Assoc., Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.

November 1985-October 1988: Graduate Student Physiological Science  
 March 1986: Biophysical and Neuronal Function. Marine Biological Laboratory, Woods Hole, Massachusetts.  
 January 1986: Research Assoc. Dept. of Anatomy & Cell Biology, Emory University, Atlanta GA U.S.A.  
 March 1987-August 1988 Research Assoc., Dept. of Physiology, State Univ. of Milan, Milan, Italy.  
 June 1988 Research Assoc., Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.  
 November 1988 Assistant Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.  
 June 1989 PhD. In Physiological Science  
 June 1989 Associate Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.  
 February 1990: invited speaker "Ion channels in intracellular membranes", San Francisco, USA.  
 .  
 June 1990: invited speaker Congresso Italiano di Biofisica, Marciana Marina, Isola d'Elba.  
 August 1990 Visiting Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.  
 September 1990 Visiting Professor, Dept. of Physiology, Bogolmez Institute, Kiev, Ukraina  
 March 1991 Assistant Professor, Dept. of Physiology and Biochemistry, Milano State University, Milano, Italy  
 April 1992 Physiological Society Award  
 April 1993: invited speaker: "Ion channel in intracellular membrane". Trieste, Italy. March  
 1994: invited speaker: "Biophysical Society", New Orleans, USA.  
 April/May 1995: invited speaker FEBS: "Single cell techniques in signal transduction research", Amsterdam NL.  
 October 1995 Visiting Professor, Dept. of Anatomy & Cell Biology, Emory University, Atlanta, GA, USA.  
 June 1996: invited speaker "Methodology in lab research". Modena, Italy.  
 October-December 1996 Visiting Professor, Institute of Physiology, Wuerzburg, Germany  
 April/May 1997: invited speaker FEBS: "Single cell techniques in signal transduction research", Amsterdam NL  
 July 1997: Histology Seminar, Université de Freiburg, Freiburg, CH.  
 August 1997-January 1998 Visiting Professor, University of South Wales, Sydney, Australia  
 March 1998: International supervisor PhD. Thesis Paukine Liu, Hong Kong University, Hong Kong.  
 October 1998: Supervisor PhD. Thesis Dr.sa Roberta Assandri, Dept. of Physiology Zurich University, CH.  
 November 1998 Associate Professor, Dept. of Cell and Dev. Biology, University "La Sapienza" Roma, Italy  
 June 1999: member International Committee II Meeting FEPS, Praga, CK.  
 November 2001 Full Professor, Dept. of Cell and Dev. Biology, University "La Sapienza" Roma, Italy April  
 2003: invited speaker Dept. Physiology UCL London UK.  
 October 2003: invited speaker of Botany Darmstadt University of Technology, Germany  
 May 2004: invited speaker Dip di Scienze Biomolecolari e Biotecnologie, Università di Milano Italy  
 March 2005: invited speaker Center for Neurodegenerative Disease, Emory University, Atlanta USA  
 November 2006: Full Professor Dip di Scienze Biomolecolari e Biotecnologie, Università di Milano Italy  
 October 2006-dicember 2007 Visiting Professor Dept. Physiology UCL London UK  
 October 2007: Joint Italian-Spanish Summer School in Biophys. and Biomol. Bertinoro , Italy September  
 2013 Visiting Scientist IFOM, Milano, Italy  
 2018 Visiting Scientist, EURAC, Bolzano, Italy

#### National and International Collaborations.

1. Prof. Samuel Breit. Centre for Immunology, St Vincent's Hospital and University of New South Wales, Sydney NSW 2010, Australia: "Function of intracellular protein of CLIC family during cell activation".
2. Prof. Paul M.G. Curmi. Initiative for Biomolecular Structure, School of Physics, University of New South Wales, NSW 2052 Australia: "Structure-functional relationship of CLIC class proteins"

3. Prof. Eugenia Schininà Dip Biochimica, Università La Sapienza, Roma, Italy: “Role of GSH in the function of CLIC1 protein in oxidative process”.
4. Prof. Marco Foiani. “Mechanobiology” IFOM, Milano
5. Prof. Giorgio Scita. “Brest cancer migration”. IFOM, Milano
6. Prof. Tullio Florio. “Glioblastoma cancer stem cells proliferation and migration”. Dept. Pharmacology, University of Genova, Italy

#### Financial supports

- 1992-1994 CNR Nuclear Permeability
- 1995-1996 CNR Development and expression of genes in neuronal cells. Stimulation frequency effects.
- 1995-1996 Pharmacia-Upjon: Electrophysiological effect of anticonvulsive compounds.
- 1995 -1996 Pharmacia-Upjon: NMDA receptors in dissociated hippocampal cells and in xenopus oocyte.
- 1996-1998 CNR Development and expression of genes in neuronal cells. Stimulation frequency effects.
- 1998-1999 CNR: Expression of genes in neuronal cells: effect of stimulation frequency effects.
- 1998-2000 PRIN “Physiopathology of ion channels”
- 1999-2000 CNR Gene expression in neuronal cells. Stimulation frequency effects.
- 1999-2001 PRIN “Physiopathology of ion channels”
- 2001-2003 PRIN "Channalopathies properties of ionic channel activated by neurotransmitter and voltage".
- 2000-2002 PRIN “Electromagnetic field on ion channel protein properties”
- 2003-2005 PRIN “Channelopathies properties of ionic channel activated by neurotransmitter and voltage”.
- 2004-2005 Ministero della Sanità: Intracranial electrodes function and information transfer.
- 2005-2007 PRIN: Membrane ionic permeability during neurodegenerative process.
- 2007-2010 PRIN: Membrane ionic permeability during neurodegenerative process.
- 2007-2010 PRIN: Cellular and molecular mechanisms of amyloid peptides: oxidative stress
- 2010-2012 Merz Biotechnology: Neurodegeneration in Retina Ganglion Cells induced by beta-amyloid
- 2012-2013 AXXAM Pharmaceutic: microglia activation mechanism
- 2014-2015 GBPharma: CFTR regulation and pharmacology.
- 2016-2018 AIRC: CLIC1 Protein role in Glioblastoma cancer stem cells proliferation and migration

#### *Publications.*

1. Cavagna, G.A., M. Mazzanti, N. C. Heglund and G. Citterio. 1985. Storage and release of mechanical energy by active muscle: A non-elastic mechanism? *J. Exp. Biol.* 115:79-87.
2. Cavagna, G. A., M. Mazzanti, N. C. Heglund and G. Citterio. 1986. Mechanical transient energy initiated by ramp stretch and release to PO in frog muscle fibers. *Am. J. Physiol.* 251:C571-C579.
3. DiFrancesco, D., A. Ferroni, M. Mazzanti and C.Tromba. 1986. Properties of the hyperpolarizing activated current (if) in cells isolated from rabbit sino-atrial node. *J. Physiol.* 377:6188.
4. Mazzanti, M. and L. J. DeFelice. 1987. Regulation of Na-conducting Ca channel during the cardiac action potential. *Biophys. J.* 51:115-121.
5. Mazzanti, M. and L. J. DeFelice. 1987. Na channel kinetics during the spontaneous heart beat in embryonic chick ventricle cells. *Biophys. J.* 52:95-100.
6. Mazzanti, M. and L. J. DeFelice. 1988. K channel kinetics during the spontaneous heart beat in embryonic chick ventricle cells. *Biophys. J.* 54:1139-1148.

7. Mazzanti, M. and D. DiFrancesco. 1988. Intracellular Ca modulates K-inward rectification in cardiac myocytes. *Pflug. Arch.* 413:322-324.
8. Mazzanti, M. and L. J. DeFelice. 1990. Ca modulated outward current through IK1 channels. *J. Membrane Biology.* 116:41-45.
9. DeFelice L.J., Goolsby W.N., Mazzanti M. 1990. Potassium channels and the repolarization of cardiac cells. *Annals of The New York Academy of Sciences*, vol. 588, p. 174-184, ISSN: 0077-8923
10. Wellis D., L. J. DeFelice and M. Mazzanti. 1989. An outward Na current in beating heart cells. *Biophys. J.* 57:41-48.
11. Mazzanti, M., L. J. DeFelice, J. Cohen and H. Malter. 1990. Ion channels in the nuclear envelope. *Nature* 343:764-767.
12. Mazzanti, M. and L. J. DeFelice. 1990. Ca channel gating during cardiac action potentials. *Biophys. J.* 58:1059-1065.
13. Mazzanti, M., L. J. DeFelice and E. F. Smith. 1991. Ion channels in murine nuclei during early development and fully differentiate adult cells. *J. Membrane Biology* 121:189-198
14. Mazzanti, M., L. J. DeFelice and Yuan-Mou Liu. 1991. Gating of L-type Ca<sup>2+</sup> channels in embryonic chick ventricle cells: dependence on voltage, current and channel density. *J. Physiol.* 443:307334.
15. Tabares, L., Mazzanti, M. and Clapham, D.E. 1991. Chloride channels in the nuclear membrane. *J. Membrane Biology.* 123:49-54.
16. Yuan-Mou Liu, De Felice L.J. and Mazzanti, M. 1992. Na channels that remain open throughout the cardiac action potential plateau. *Biophys. J.* 63:654-662.
17. Mazzanti, M., Galli, A. and A. Ferroni. 1992. Effect of firing rate on the calcium permeability in adult neurons during spontaneous action potentials. *Biophys. J.* 63:926-934.
18. Innocenti, B. and M. Mazzanti. 1993. Identification of a nucleo-cytoplasmic ionic pathway by osmotic shock in isolated mouse liver nuclei. *J. Membrane Biology.* 131/2:137-142.
19. Galli, A., Ferroni, A., Bertollini, L. and Mazzanti, M. 1994. Inactivation of single Ca<sup>2+</sup> channels in rat sensory neuron by extracellular Ca<sup>2+</sup>. *J. Physiol.* 477.1:15-26.
20. Mazzanti, M. Innocenti, B. and Rigatelli, M. 1994. ATP dependent ionic permeability of nuclear envelope in in-situ nuclei of xenopus oocyte. *FASEB J.* 8/2:231-236.
21. Mazzanti, M., Ferroni A., Assandri R. and D. DiFrancesco. 1996. Cytoskeletal control of rectification and expression of four substates in cardiac inward rectifier K-channels. *FASEB J.* 10:357-361.
22. Ferroni A., Galli, A. and M. Mazzanti. 1996. Functional role of low-voltage-activated dihydropyridine sensitive Ca channels during the action potential in adult rat sensory neurons. *Pflug. Arch* 431:954-963.
23. Assandri, R., and M. Mazzanti. 1997. Ionic permeability on isolated mouse liver nuclei: influence of ATP and intracellular Ca<sup>++</sup> levels. *J. Memb. Biol* 157/3:301-9
24. M. Mazzanti. 1998. Ion permeability of the nuclear envelope. *NIPS* 13:44-50
25. Danker T., Mazzanti M., Tonini R., Rakowska A. and Oberleithner H. 1998. Using atomic force microscopy to investigate patch-clamped nuclear membrane. *Cell Biology Int.* 21:747-757
26. R. Tonini, E. Mancinelli, M. Mazzanti, M. Balestrini, E. Martegani, A. Ferroni, E. Sturani and R. Zippel. 1999. Expression of Ras GRF in the SK N BE neuroblastoma accelerates retinoic acid induced neuronal differentiation and increases the functional expression of the IRK1 potassium channel. *European J. Neuroscience* 11(3):959-966

27. P. Salvati, C. Caccia, M.A. Cervini, R. Maj, E. Lamberti, P. Pevarello, G.A. Skeen, H.S. White, H.H. Wolf, L. Faravelli, M. Mazzanti, E. Mancinelli, M. Varasi, R.G. Fariello. 1999. Biochemical and electrophysiological studies on the mechanism of action of PNU-151774E, a novel anticonvulsant drug. *J. Pharmacol Exp Ther* 288(3):1151-1159
28. R. Tonini, F. Grohovaz, C. A.M. LaPorta, and M. Mazzanti. 1999. Gating mechanism of the nuclear pore complex channel in isolated neonatal and adult mouse. *FASEB J.* 13:1395-1403
29. S. M. Valenzuela, M. Mazzanti, R. Tonini, M. R. Qiu, K. Warton, E. A. Musgrove, T. J. Campbell, S. N. Breit. 2001. The nuclear chloride ion channel NCC27 is involved in regulation of the cell cycle. *J. Physiol.* 529: 541-551R.
30. Tonini, A. Ferroni, S. M. Valenzuela, K. Warton, T. J. Campbell, S.N. Breit and M. Mazzanti. 2000. Functional characterization of the NCC27 nuclear protein in stable transfected CHO-K1 cells. *FASEB J.* 14, 1171-1178.
31. M. Mazzanti, O. Bustamante and H. Oberleithner. 2001. Electrical dimension of nuclear envelope. *Physiological Review.* 81,1-19
32. R. Tonini, M.D. Baroni E. Masala, M. Micheletti , A. Ferroni, and M. Mazzanti . 2001. Calcium Protects Differentiating Neuroblastoma cells During 50 Hz Electromagnetic Radiation. *Biophysical J.* 81: 2580-2589.
33. Stephen J. Harrop, Matthew Z. DeMaere, W. Douglas Fairlie, Tamara Reztsova, Stella M. Valenzuela, Michele Mazzanti, Raffaella Tonini, Min Ru Qiu, Lucy Jankova, Kristina Wartoni, Asne R. Bauskini, Wan Man Wui, Susan Pankhurst, Terence J. Campbell, Samuel N. Breit, and Paul M. G. Curmi. 2001. Crystal Structure of the Soluble Form of the Intracellular Chloride Channel CLIC1 (NCC27) at 1.4Å Resolution. *Journal of Biological Chemistry.* 276: 4499345000.
34. K. Warton, R. Tonini, W. D. Fairlie, J. M Matthews, S. M. Valenzuela, M. R. Qiu, W. M. Wu, S. Pankhurst, A. R. Bauskin, S. J. Harrop, T. J. Campbell, P. M. G. Curmi, S. N. Breit and M. Mazzanti. 2002. Recombinant CLIC1 (NCC27) assembles in lipid bilayers via a pH-dependent two-state process to form chloride ion channels with identical characteristics to those observed in CHO cells expressing CLIC1. *Journal of Biological Chemistry.* 277: 26003-26011.
35. Dene R. Littler, Stephen J. Harrop, W. Douglas Fairlie, Louise J. Brown, Greg J. Pankhurst, Susan Pankhurst, Matthew Z. DeMaere, Terence J. Campbell, Asne R. Bauskin, Raffaella Tonini, Michele Mazzanti, Samuel N. Breit, and Paul M. Curmi. 2004. The intracellular chloride ion channel protein CLIC1 undergoes a redox-controlled structural transition. *Journal of Biological Chemistry.* 279:9298-9305.
36. G. Novarino, C. Fabrizi, R. Tonini, M. A. Denti, F. Malchiodi-Albedi, G.M. Lauro, B. Sacchetti, S. Paradisi, A. Ferroni , P.M.G. Curmi, S.N. Breit and M. Mazzanti. 2004. Involvement of the intracellular ionic channel CLIC1 in microglia-mediated  $\beta$ -amyloid induced neurotoxicity. *J. Neuroscience.* 24(23):5322–5330.
37. Littler, D. R., Assaad, N. N., Harrop, S. J., Brown, L. J., Pankhurst, G. J., Luciani, P., Aguilar, M. I., Mazzanti, M., Berryman, M. A., Breit, S. N., & Curmi, P. M. 2005. Crystal structure of the soluble form of the redox-regulated chloride ion channel protein CLIC4. *FEBS J.* 272, 4996-5007.
38. I. Marchionni, A. Paffi, M. Pellegrino, M. Liberti, F. Apollonio, R. Abeti, F. Fontana, G. D’Inzeo and M. Mazzanti. 2006. Comparison between extremely low frequency (50 HZ) and radiofrequency (900 MHZ) electromagnetic field stimulation on single channel ionic current and on firing frequency in isolated neurons of dorsal root ganglion. *Biochem. Biophys . Acta. Biomembranes* 1758(5):597605.

39. R. Tonini, S. Ciardo, M. Cerovic, T. Rubino, D. Parolaro, M. Mazzanti, R. Zippel. 2006. ERKdependent modulation of cerebellar synaptic plasticity following chronic  $\square$ 9tetrahydrocannabinol exposure. *J. Neuroscience*. 26(21):5810-5818
40. Cromer, B. A., Gorman, M. A., Hansen, G., Adams, J. J., Coggan, M., Littler, D. R., Brown, L. J., Mazzanti, M., Breit, S. N., Curmi, P. M., Dulhunty, A. F., Board, P. G., & Parker, M. W. 2007. Structure of the Janus Protein Human CLIC2. *J. Mol Biol*. 30;374(3):719-31.
41. D. R. Littler<sup>1</sup>, S. J. Harrop, L. J. Brown, G. J. Pankhurst, A. V. Mynott<sup>1</sup>, P. Luciani, R. A. Mandyam, M. Mazzanti, S. Tanda, M. A. Berryman, S. N. Breit, P. M. G. Curmi. 2008. Comparison of vertebrate and invertebrate CLIC proteins: the crystal structures of *Caenorhabditis elegans* EXC4 and *Drosophila melanogaster* DmCLIC. *Protein*. 71(1):364-78.
42. Paradisi S, Matteucci A, Fabrizi C, Denti MA, Abeti R, Breit SN, Malchiodi-Albedi F, Mazzanti M. 2008. Blockade of chloride intracellular ion channel 1 stimulates Abeta phagocytosis. *J. Neurosci Res*. 86(11):2488-98.
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44. Averaimo S, Milton RH, Duchen MR, Mazzanti M. 2010. Chloride intracellular channel 1 (CLIC1): Sensor and effector during oxidative stress. *FEBS Lett*. 584(10):2076-84.
45. Littler DR, Harrop SJ, Goodchild SC, Phang JM, Mynott AV, Jiang L, Valenzuela SM, Mazzanti M, Brown LJ, Breit SN, Curmi PM. 2010. The enigma of the CLIC proteins: Ion channels, redox proteins, enzymes, scaffolding proteins? *FEBS Lett*. 2010 May 17;584(10):2093-101
46. Goodchild SC, Howell MW, Littler DR, Mandyam RA, Sale KL, Mazzanti M, Breit SN, Curmi PM, Brown LJ. 2010. Metamorphic response of the CLIC1 chloride intracellular ion channel protein upon membrane interaction. *Biochemistry*.49(25):5278-89
47. Paulis D, Maras B, Schininà ME, di Francesco L, Principe S, Galeno R, Abdel-Haq H, Cardone F, Florio T, Pocchiari M, Mazzanti. 2011. The pathological prion protein forms ionic conductance in lipid bilayer. *M. Neurochem Int*. Aug;59(2):168-74.
48. Di Francesco L, Correani V, Fabrizi C, Fumagalli L, Mazzanti M, Maras B, Schininà ME 2012. 14-3-3 $\epsilon$  marks the amyloid-stimulated microglia long-term activation. *Proteomics*. 12(1):124-34.
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50. Stravalaci M, Bastone A, Beeg M, Cagnotto A, Colombo L, Di Fede G, Tagliavini F, Cantu' L, Del Favero E, Mazzanti M, Chiesa R, Salmona M, Diomedede L, Gobbi M. 2012. Specific recognition of biologically active amyloid- $\beta$  oligomers by a new Surface Plasmon Resonance-based immunoassay and an in vivo assay in *Caenorhabditis elegans*.. *J.Biol Chem*, 287(33): 2779627805
51. Sorrentino S, Bucciarelli T, Corsaro A, Tosatto A, Thellung S, Villa V, Schininà M E, Maras B, Galeno R, Scotti L, Creati C, Marrone A, Re N, Aceto A, Florio T and Mazzanti M. 2012. Calcium Binding Promotes Prion Protein Fragment 90-231 Conformational Change Toward A Membrane Destabilizing And Cytotoxic Structure. *Plos One* , 7(7): e38314. 49
52. Setti M., Savalli N., Osti D., Richichi C., Angelini M, Brescia P., Fornasari L., Carro M. S., Mazzanti M., Pelicci G. (2013) Functional role of CLIC1 ion channel in glioblastoma derived stem/progenitor cells. *J. National Cancer Institute* 105:1644–1655.

53. Averaimo S., Abeti R., Savalli N., Brown L-J., Curmi P.M.G., Breit N.S., Mazzanti M.. (2013) Point mutations in the transmembrane region of the CLIC1 ion channel selectively modify its biophysical properties. *Plos One*, 8(9): e74523.
54. Ferrera D, Canale C, Marotta R, Mazzaro N, Gritti M, Mazzanti M, Capellari S, Cortelli P, Gasparini L. (2014) Lamin B1 overexpression increases nuclear rigidity in autosomal dominant leukodystrophy fibroblasts. *FASEB J. Sep*;28(9):3906-18.
55. Averaimo S, Gritti M, Barini E, Gasparini L, Mazzanti M. (2014). CLIC1 functional expression is required for cAMP-induced neurite elongation in postnatal mouse retinal ganglion cells. *J Neurochem. Nov*;131(4):444-56
56. Kumar A, Mazzanti M, Mistrik M, Kosar M, Beznoussenko GV, Mironov AA, Garrè M, Parazzoli D, Shivashankar GV, Scita G, Bartek J, Foiani M. (2014). ATR Mediates a Checkpoint at the Nuclear Envelope in Response to Mechanical Stress. *Cell. Jul 31*;158(3):633-46.
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59. Peretti M, Angelini M, Savalli N, Florio T, Yuspa SH, Mazzanti M. (2015). Chloride channels in cancer: Focus on chloride intracellular channel 1 and 4 (CLIC1 AND CLIC4) proteins in tumor development and as novel therapeutic targets. *Biochim Biophys Acta. 2015 Oct*;1848(10 Pt B):2523-31
60. Correani V, Francesco LD, Cera I, Mignogna G, Giorgi A, Mazzanti M, Fumagalli L, Fabrizi C, Maras B, Schininà ME. Reversible redox modifications in the microglial proteome challenged by beta amyloid. (2015). *Mol Biosyst. 11(6)*:1584-93.
61. Würth R, Thellung S, Bajetto A, Mazzanti M, Florio T, Barbieri F. (2016) Drug-repositioning opportunities for cancer therapy: novel molecular targets for known compounds. (2016). *Drug Discov Today. Jan*; 21(1):190-9. doi: 10.1016. Review.
62. Leonzino M, Busnelli M, Antonucci F, Verderio C, Mazzanti M, Chini B. (2016) The Timing of the Excitatory-to-Inhibitory GABA Switch Is Regulated by the Oxytocin Receptor via KCC2. *Cell Rep. 2016 Mar 23*. pii: S2211-1247(16)30254-6. doi: 10.1016/j.celrep. 2016.03.013. [Epub ahead of print]
63. Stravalaci M, Tapella L, Beeg M, Rossi A, Joshi P, Pizzi E, Mazzanti M, Balducci C, Forloni G, Biasini E, Salmona M, Diomede L, Chiesa R, Gobbi M. (2016) The Anti-Prion Antibody 15B3 Detects Toxic Amyloid- $\beta$  Oligomers. *J Alzheimers Dis. 2016 Jul 6*. 53 1485–1497. doi:10.3233/JAD-150882.
64. Bassani S, Cwetsch AW, Gerosa L, Serratto GM, Folci A, Hall IF, Mazzanti M, Cancedda L, Passafaro M. (2018) The female epilepsy protein PCDH19 is a new GABAAR binding partner that regulates GABAergic transmission as well as migration and morphological maturation of hippocampal neurons. *Hum Mol Genet. Jan 17*. doi: 10.1093/hmg/ddy019. [Epub ahead of print]