

	<p>February 2012 - 2013</p> <p>Fellow researcher at University of Milan and Center for Stem Cell Research. Research title: “<i>Characterization of human stem cells and evaluation of their differentiation in vitro by means of electrophysiological analysis</i>”.</p> <p>Supervisor: Prof. E. Cattaneo</p> <p>2011 – January 2012</p> <p>Fellow researcher at University of Pavia (Dept. of Physiology). Research title: “<i>Analysis of inhibitory interneurons of the cerebellar circuit</i>”. REALNET (7th PQ) EU project. Supervisor: Prof. E. D’Angelo</p> <p>2008 – 2010</p> <p>Fellow researcher at University of Pavia (Dept. of Physiology). Research title: “<i>Synaptic transmission and plasticity in the inhibitory circuit of the cerebellar granular layer</i>”.</p> <p>Supervisor: Prof E. D’Angelo</p>
Computer skill and competences	Competent with Microsoft Office and with data recording and analysis software (pClamp, Igor, MatLab)
Technical competences	Preparation of cerebral sections from rat and mouse Patch-clamp and calcium imaging in slice and <i>in vitro</i>
Teaching	Supervisor of degree thesis for students in Biology and Neurobiology at University of Pavia
Affiliations	Italian Society of Neuroscience (SINS)

PUBLICATIONS OF ELISABETTA CESANA

- ❖ Faedo A, Laporta A, Segnali A, Galimberti M, Besusso D, **Cesana E**, Belloli S, Moresco RM, Tropiano M, Wild S, Bosio A, Vercelli A, Biella G, Cattaneo E. (2017) "Differentiation of human telencephalic progenitor cells into MSNs by inducible expression of Gsx2 and Ebf1" *PNAS USA feb14; 114(7): 179-84. doi: 10.1073/pnas.1611473114. Epub 2017Jan 30.* Impact Factor: 9.66

- ❖ Valenza M, Marullo M, Di Paolo E, **Cesana E**, Zuccato C, Biella G, Cattaneo E. (2015) "Disruption of astrocyte-neuron cholesterol cross talk affects neuronal function in Huntington's disease". *Cell Death and Differentiation, 22(4): 690-702. doi: 10.1038/cdd.2014.162. Epub 2014 Oct 10.* Impact Factor: 6.78

- ❖ Onorati M, Castiglioni V, Biasci D, **Cesana E**, Menon R, Vuono R, Talpo F, Goya RL, Lyons P, Bulfamante GP, Martino G, Toselli M, Farina C, Barker RA, Biella G, Cattaneo E. (2014) "Molecular and functional redefinition of the developing human striatum". *Nat Neurosci. Dec, 17(12):1804-15. doi: 10.1038/nn.3860. Epub 2014 Nov 10.* Impact Factor: 9.86

- ❖ **Cesana E**, Pietrajtis K, Bidoret C, Isope P, D'Angelo E, Dieudonné S, Forti L. (2013) "Granule cell ascending axon excitatory synapses onto Golgi cells implement a potent feedback circuit in the cerebellar granular layer". *J.Neurosci. 33(30): 12430-46. doi: 10.1523/JNEUROSCI.4897-11.2013.* Impact Factor: 8.08

- ❖ Brilli E, Reitano E, Conti L, Conforti P, Giulino R, Consalez GG, **Cesana E**, Smith A, Rossi F, Cattaneo E. (2013) "Neural stem cells engrafted in the adult brain fuse with endogenous neurons". *Stem Cells Dev. 15; 22(4): 538-4. doi: 10.1089/scd.2012.0530. Epub 2012 Nov 20.* Impact Factor: 4.20

- ❖ D'Angelo E, Mazzarello P, Prestori F, Mapelli J, Solinas S, Lombardo P, **Cesana E**, Gandolfi D, Congi L. (2011) "The cerebellar network: from structure to function and dynamics". *Brain Res. Rev. 66(1-2): 5-15. doi: 10.1016/j.brainresrev.2010.10.002. Epub 2010 Oct 13.* Impact Factor: 19.97

- ❖ Solinas S, Forti L, **Cesana E**, Mapelli J, DeSchutter E, D'Angelo E. (2007) "Computational reconstruction of pacemaking and intrinsic electroresponsiveness in cerebellar Golgi cells". *Front.Cell.Neurosci.* 1-2:1-12. doi: 10.3389/neuro.03.002.2007. eCollection 2007.
- ❖ Solinas S, Forti L, **Cesana E**, Mapelli J, DeSchutter E, D'Angelo E. (2007) "Fast-reset of pacemaking and theta-frequency resonance patterns in cerebellar Golgi cells: simulations of their impact *in vivo*". *Front.Cell.Neurosci.* 1-4:1-9. doi: 10.3389/neuro.03.004.2007. eCollection 2007.
- ❖ Forti L, **Cesana E**, Mapelli J, D'Angelo E. (2006) "Ionic mechanisms of autorhythmic firing in cerebellar Golgi cells". *J.Physiol* 574.3: 711-29.

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