

## List of Publications of Dr. Rossetto

1. Rossetto O., Pirazzini M., Montecucco C. (2014). Botulinum Neurotoxins: recent genetic, structural and mechanistic insights. *Nature Reviews Microbiology*. 2014 Jun 30, doi:10.1038/nrmicro3295.
2. Coelho A., Oliveira R., Rossetto O., Cruz F., Duarte Cruz C., Avelino A. (2014). Intrathecal administration of botulinum toxin type A improves urinary bladder function and reduces pain in rats with cystitis. *European Journal of Pain*, 2014 Apr 23. doi: 10.1002/ejp.513.
3. Matak I., Rossetto O., Lacković Z. (2014) Botulinum toxin type A selectivity for certain types of pain is associated with capsaicin-sensitive neurons. *Pain*, 2014, pii: S0304-3959(14)00206-1.
4. Pirazzini M, Henke T, Rossetto O, Mahrhold S, Krez N, Rummel A, Montecucco C, Binz T. Neutralisation of specific surface carboxylates speeds up translocation of botulinum neurotoxin type B enzymatic domain. *FEBS Lett*. 2013 29;587(23):3831-6.
5. Megighian A, Zordan M, Pantano S, Scorzeto M, Rigoni M, Zanini D, Rossetto O, Montecucco C. Evidence for a radial SNARE super-complex mediating neurotransmitter release at the Drosophila neuromuscular junction. *J Cell Sci*. 2013 Jul 15;126(Pt 14):3134-40.
6. Colasante C, Rossetto O, Morbiato L, Pirazzini M, Molgo J, Montecucco C. Botulinum Neurotoxin Type A is Internalized and Translocated from Small Synaptic Vesicles at the Neuromuscular Junction. *Mol Neurobiol*. 2013 Mar 8.
7. Rossetto O, Megighian A, Scorzeto M, Montecucco C. Botulinum neurotoxins. *Toxicon*. 2013 Feb 19;67C:31-36.
8. Rossetto O, Scorzeto M, Megighian A, Montecucco C. Tetanus neurotoxin. *Toxicon*. 2013 May;66:59-63.
9. Eleopra R., Montecucco C., Devigili G., Lettieri C., Rinaldo S., Verriello S., Pirazzini M., Caccin P., Rossetto O\*. (2013). Botulinum neurotoxin serotype D is poorly effective in humans: an in vivo electrophysiological study. *CLINICAL NEUROPHYSIOLOGY*, 124(5):999-1004.
10. Pirazzini M., Bordin F., Rossetto O., Shone C.C., Binz T. and Montecucco C. (2012). The thioredoxin reductase-thioredoxin system is involved in the entry of tetanus and botulinum neurotoxins in the cytosol of nerve terminals. *FEBS Lett*. (2012), 587(2):150-5.
11. Pirazzini M., Rossetto O., Bertasio C., Bordin F., Shone C.C., Binz T. and Montecucco C. (2012). Time Course and Temperature Dependence of the Membrane Translocation of Tetanus and Botulinum Neurotoxins C and D in Neurons. *Biochem. Biophys. Res. Comm.* 430(1):38-42.
12. Restani L., Giribaldi F., Bercsenyi K, Manich M., Menedez G., Rossetto O., Caleo M. and Schiavo G. (2012). Botulinum neurotoxins A and E undergo retrograde axonal transport in primary motor neurons. *PLoS Path.* 8(12):e1003087.
13. Mainardi M, Pietrasanta M, Vannini E, Rossetto O, Caleo M. Tetanus neurotoxin-induced epilepsy in mouse visual cortex. *Epilepsia*. 2012; 53(7):e132-6.
14. Pirazzini M, Rossetto O, Bolognese P, Shone CC, Montecucco C. Double anchorage to the membrane and intact inter-chain disulfide bond are required for the low pH induced entry of tetanus and botulinum neurotoxins into neurons. *Cell Microbiol*. 2011 Nov;13(11):1731-43.

15. Restani L, Antonucci F, Gianfranceschi L, Rossi C, Rossetto O, Caleo M. Evidence for anterograde transport and transcytosis of botulinum neurotoxin A (BoNT/A). *J Neurosci*. 2011 Nov 2;31(44):15650-9.
16. Ferrari E, Maywood Es, Restani L, Caleo M, Pirazzini M, Rossetto O, Hastings Mh, Niranjana D, Schiavo G, Davletov B. Re-Assembled Botulinum Neurotoxin Inhibits CNS Functions without Systemic Toxicity. *Toxins (Basel)*. 2011, 3(4):345-55
17. Megighian A, Scorzeto M, Zanini D, Pantano S, Rigoni M, Benna C, Rossetto O, Montecucco C, Zordan M. Arg206 of SNAP-25 is essential for neuroexocytosis at the *Drosophila melanogaster* neuromuscular junction. *J Cell Sci*. 2010, 123:3276-83.
18. Paoli M, Rigoni M, Koster G, Rossetto O, Montecucco C, Postle AD. Mass spectrometry analysis of the phospholipase A(2) activity of snake pre-synaptic neurotoxins in cultured neurons. *J Neurochem*. 2009, 111(3):737-44.
19. Carli L, Montecucco C, Rossetto O. Assay of diffusion of different botulinum neurotoxin type a formulations injected in the mouse leg. *Muscle Nerve*. 2009, 40(3):374-80.
20. Cintra-Francischinelli M, Pizzo P, Rodrigues-Simioni L, Ponce-Soto LA, Rossetto O, Lomonte B, Gutiérrez JM, Pozzan T, Montecucco C. Calcium imaging of muscle cells treated with snake myotoxins reveals toxin synergism and presence of acceptors. *Cell Mol Life Sci*. 2009, 66(10):1718-28.
21. Tedesco E, Rigoni M, Caccin P, Grishin E, Rossetto O, Montecucco C. Calcium overload in nerve terminals of cultured neurons intoxicated by alpha-latrotoxin and snake PLA2 neurotoxins. *Toxicon*. 2009, 54(2):138-44.
22. Caccin P, Rossetto O, Montecucco C. Neurotoxicity of inverted-cone shaped lipids. *Neurotoxicology*. 2009 30(2): 174-181.
23. Muraro L., Tosatto S., Motterlini L., Rossetto O. and Montecucco C. The N-terminal half of the receptor domain of botulinum neurotoxin A binds to microdomains of the plasma membrane. *Biochem. Biophys. Res. Commun*. 2009, 380(1):76-80. IF: 2,749 Ranking 124/263
24. Montecucco C, Rossetto O, Caccin P, Rigoni M, Carli L, Morbiato L, Muraro L, Paoli M. Different mechanisms of inhibition of nerve terminals by botulinum and snake presynaptic neurotoxins. *Toxicon*. 2009, 54(5):561-564.
25. Montecucco C, Rossetto O. On the quaternary structure of taipoxin and textilotoxin: The advantage of being multiple. *Toxicon*. 2008 Jun 15;51(8):1560-1562.
26. Antonucci F, Rossi C, Gianfranceschi L, Rossetto O, Caleo M. Long-distance retrograde effects of botulinum neurotoxin A. *J Neurosci*. 2008 Apr 2;28(14):3689-96.
27. Morbiato L, Carli L, Johnson EA, Montecucco C, Molgo J, Rossetto O. Neuromuscular paralysis and recovery in mice injected with botulinum neurotoxins A and C. *Eur J Neurosci*. 2007 May;25(9):2697-704. IF3,673 Ranking 56/211
28. Caleo M, Restani L, Gianfranceschi L, Costantin L, Rossi C, Rossetto O, Montecucco C, Maffei L. Transient synaptic silencing of developing striate cortex has persistent effects on visual function and plasticity. *J Neurosci*. 2007 Apr 25;27(17):4530-40.
29. Giner D, Lopez I, Neco P, Rossetto O, Montecucco C, Gutierrez LM. Glycogen synthase kinase 3 activation is essential for the snake phospholipase A2 neurotoxin-induced secretion in chromaffin cells. *Eur J Neurosci*. 2007 Apr;25(8):2341-8. IF3,673 Ranking 56/211

30. Rossetto O, Montecucco C. Peculiar binding of botulinum neurotoxins. *ACS Chem Biol.* 2007 Feb 20;2(2):96-8. 53/263, IF: 4.741
31. Rigoni M, Pizzo P, Schiavo G, Weston AE, Zatti G, Caccin P, Rossetto O, Pozzan T, Montecucco C. Calcium influx and mitochondrial alterations at synapses exposed to snake neurotoxins or their phospholipid hydrolysis products. *J Biol Chem.* 2007 Apr 13;282(15):11238-45.
32. Verderio C, Grumelli C, Raiteri L, Coco S, Paluzzi S, Caccin P, Rossetto O, Bonanno G, Montecucco C, Matteoli M. Traffic of Botulinum Toxins A and E in Excitatory and Inhibitory Neurons. *Traffic.* 2007 Feb;8(2):142-153.
33. Caccin P, Rigoni M, Bisceglie A, Rossetto O, Montecucco C. (2006). Reversible skeletal neuromuscular paralysis induced by different lysophospholipids. *FEBS Lett.* 580, 6317-6321.
34. Verderio C, Rossetto O, Grumelli C, Frassoni C, Montecucco C, Matteoli M. Entering neurons: botulinum toxins and synaptic vesicle recycling. *EMBO Rep.* 2006 Oct;7(10):995-9.
35. Rossetto O, Morbiato L, Caccin P, Rigoni M, Montecucco C. Presynaptic enzymatic neurotoxins. *J Neurochem.* 2006 Jun;97(6):1534-45.
36. Eleopra R, Tugnoli V, Quatrala R, Rossetto O, Montecucco C, Dressler D. Clinical use of non-A botulinum toxins: botulinum toxin type C and botulinum toxin type F. *Neurotox Res.* 2006 9:127-131. IF 5,234 Ranking Neurosciences 29/211
37. Luvisetto S, Marinelli S, Lucchetti F, Marchi F, Cobianchi S, Rossetto O, Montecucco C, Pavone F. (2006) Botulinum neurotoxins and formalin-induced pain: Central vs. peripheral effects in mice. *Brain Res.* 1082(1):124-31.
38. Rigoni M., Caccin P., Gschmeissner S., Koster G., Postle A.D., Rossetto O., Schiavo G. and Montecucco C. (2005). Equivalent Effects of Snake PLA2 Neurotoxins and Lysophospholipid-Fatty Acid Mixtures. *Science*, 310: 1678-80.
39. Grumelli C, Verderio C, Pozzi D, Rossetto O, Montecucco C, Matteoli M. (2005). Internalization and Mechanism of Action of Clostridial Toxins in Neurons. *Neurotoxicology*; 26:761-7.
40. Costantin, L., Bozzi, Y., Richichi, C., Viegi, A., Funicello, M., Gobbi, M., Mennini, T., Rossetto, O., Montecucco, C., Maffei, L., Vezzani, A., Caleo M. (2005). Anti-epileptic effects of botulinum toxin E. *J. Neurosci.* 25:1943-51.
41. Bonanomi D, Pennuto M, Rigoni M, Rossetto O, Montecucco C, Valtorta F. (2005). Taipoxin induces synaptic vesicle exocytosis and disrupts the interaction of synaptophysin I with VAMP2. *Mol Pharmacol.* 67:1901-8.
42. Montecucco C, Rossetto O, Schiavo G. (2004). Presynaptic receptor arrays for clostridial neurotoxins. *Trends Microbiol.* 12:442-6.
43. Puhar A., Johnson E.A., Rossetto O. and Montecucco C. (2004). Comparison of the pH-Induced Conformational Rearrangement of Different Clostridial Neurotoxins. *Biochem. Biophys. Res. Commun.*, 319(1):66-71
44. Rigoni, M., Schiavo G., Weston A.E., Caccin P., Allegroni F., Pennuto M., Valtorta F., Montecucco C. and Rossetto O. (2004). Snake presynaptic neurotoxins with phospholipase A2 activity induce punctuate swellings of neurites and exocytosis of synaptic vesicles. *J. Cell Sci.* 117: 3561-70

45. Eleopra R., Tugnoli V., Quatralo R., Rossetto O., Montecucco C. (2004). Different types of botulinum toxin in humans. *Mov Disord. Suppl* 8:S53-9.
46. Rossetto O., Rigoni M., and Montecucco C. (2004). Different mechanism of blockade of neuroexocytosis by presynaptic neurotoxins. *Toxicology Lett.* 149, 91-101
47. Siro LUVISETTO, Sara MARINELLI Ornella ROSSETTO, Cesare MONTECUCCO and Flaminia PAVONE. (2004). Central Injection of Botulinum Neurotoxins: Behavioural Effects in Mice. *Behavioural Pharmacology*, 15(3):233-40
48. Claudia Verderio, Davide Pozzi, Elena Pravettoni, Francesca Inverardi, Ursula Schenk, Silvia Coco, Veronique Proux, Thierry Galli, Ornella Rossetto, Carolina Frassoni and Michela Matteoli (2004). Hippocampal gabaergic neurons lack SNAP25: effects on calcium dynamics. *Neuron*, 41, 599-610.
49. Caccin P., Rossetto O., Rigoni M., Johnson E., Schiavo G. and Montecucco C. (2003). VAMP/synaptobrevin Cleavage by Tetanus and Botulinum Neurotoxins is Strongly Enhanced by Acidic Liposomes. *FEBS Letters*, 27195, 1-5.
50. Luvisetto S., Rossetto O., Montecucco C. and Pavone F. (2003). Toxicity of Botulinum Neurotoxins in Central Nervous System of Mice. *Toxicon*, 41(4), 475-81.
51. Ñeco P., Rossetto O., Gil A, Montecucco C. and Gutiérrez L.M. (2003). Taipoxin induces F-actin fragmentation and enhances release of catecholamines in bovine chromaffin cells. *J. Neurochem.*, 85 (2), 329-337.
52. Gouraud S, Laera A, Calamita G, Carmosino M, Procino G, Rossetto O, Mannucci R, Rosenthal W, Svelto M, Valenti G. (2002). Functional involvement of VAMP/synaptobrevin-2 in cAMP-stimulated aquaporin 2 translocation in renal collecting duct cells. *J Cell Sci.* 115:3667-3674.
53. Eleopra, R., Tugnoli, V., Quatralo, R., Gastaldo, E., Rossetto, O., De Grandis, D. and Montecucco, C. (2002). Botulinum neurotoxin serotype A and C do not affect motor units survival in human: an electrophysiological study by motor units counting. *Clin. Neurophys.* 113(8):1258-64.
54. Rigoni, M., Caccin P., Johnson E.A., Montecucco C. and Rossetto O. (2001). Site-directed mutagenesis identifies active site residues of the light chain of botulinum neurotoxin type A. *Biochem. Biophys. Res. Commun.*, 288(5), 1231-1237.
55. Rossetto O., Caccin P., Rigoni M., Tonello F., Bortoletto N., Stevens R.C. and Montecucco C. Active-site mutagenesis of tetanus neurotoxin implicates tyr-375 and glu-271 in metalloprotease activity. *Toxicon* (2001) 39, 1151-1159.
56. Rossetto O., Seveso M., Caccin P., Schiavo G. and Montecucco C. Tetanus and Botulinum Neurotoxins: turning bad guys into good by research. *Toxicon* (2001), 39, 27-41.
57. Montecucco C and Rossetto O. How do presynaptic PLA2 neurotoxins block nerve terminals? *Trends Biochem. Sci.* (2000), 25, 257-305.
58. Rossetto O., de Bernard M., Pellizzari R., Vitale G., Caccin P., Schiavo G. and Montecucco C. Bacterial toxins with intracellular protease activity. *Clinica Chimica Acta* (2000) 291, 189-199.
59. Gasparian M, Pusterla M, Baldan B, Downey PM, Rossetto O, de Laureto PP, Filippini F, Terzi M, Lo Schiavo FL. Identification and characterization of an 18-kilodalton, VAMP-like protein in suspension-cultured carrot cells. *Plant Physiol.* (2000) 122, 25-34.

60. Raiteri M, Sala R, Fassio A, Rossetto O, Bonanno G. Entrapping of impermeant probes of different size into nonpermeabilized synaptosomes as a method to study presynaptic mechanisms. *J Neurochem.* (2000) 74, 423-31.
61. Verderio C, Coco S, Bacci A, Rossetto O, De Camilli P, Montecucco C, Matteoli M. Tetanus toxin blocks the exocytosis of synaptic vesicles clustered at synapses but not of synaptic vesicles in isolated axons. *J Neurosci.* (1999) 19, 6723-32.
62. Lalli G, Herreros J, Osborne SL, Montecucco C, Rossetto O, Schiavo G. Functional characterisation of tetanus and botulinum neurotoxins binding domains. *J Cell Sci.* (1999) 112, 2715-24.
63. Verderio C, Coco S, Rossetto O, Montecucco C, Matteoli M. Internalization and proteolytic action of botulinum toxins in CNS neurons and astrocytes. *J Neurochem.* (1999) 73, 372-9.
64. Pellizzari R, Rossetto O, Schiavo G, Montecucco C. Tetanus and botulinum neurotoxins: mechanism of action and therapeutic uses. *Philos Trans R Soc Lond B Biol Sci.* (1999) 354, 259-68.
65. Pellizzari R, Rossetto O, Washbourne P, Tonello F, Nicotera PL, Montecucco C. In vitro biological activity and toxicity of tetanus and botulinum neurotoxins. *Toxicol Lett.* (1998) 102-103, 191-7.
66. Eleopra R, Tugnoli V, Rossetto O, De Grandis D, Montecucco C. Different time courses of recovery after poisoning with botulinum neurotoxin serotypes A and E in humans. *Neurosci Lett.* (1998) 256, 135-8.
67. Washbourne P, Pellizzari R, Rossetto O, Bortoletto N, Tugnoli V, De Grandis D, Eleopra R, Montecucco C. On the action of botulinum neurotoxins A and E at cholinergic terminals. *J Physiol Paris.* (1998) 92, 135-9.
68. Eleopra, R., Tugnoli, V., Rossetto, O., Montecucco, C. and De Grandis D. Botulinum neurotoxin serotype C: a novel effective botulinum toxin therapy in human. *Neurosci. Lett.* (1997) 224, 91-94.
69. Pellizzari, R., Rossetto, O., Lozzi, L., Giovedì, S., Johnson, E., Shone, CC. and Montecucco, C. Structural determinants of the specificity for VAMP/synaptobrevin of tetanus and botulinum type B and G neurotoxins. *J. Biol. Chem.* (1996) 271, 20353-20358
70. Matteoli, M., Verderio, C., Rossetto, O., Iezzi, N., Coco, S., Schiavo and Montecucco, C. Synaptic vesicle endocytosis mediates the entry of tetanus neurotoxin into hippocampal neurons. *Proc. Natl. Acad. Sci. USA* (1996) 93, 13310-13315.
71. Rossetto O., Gorza L., Schiavo G., Schiavo N., Neale E.A., Scheller R.H. and Montecucco C. VAMP/synaptobrevin neuronal isoforms are ubiquitous and play a role additional to vesicle docking. (1996) *J Cell Biol.* 132, 167-79
72. Montecucco C, Schiavo G, Rossetto O. The mechanism of action of tetanus and botulinum neurotoxins. *Arch Toxicol Suppl.* 1996;18:342-54.
73. Wictome M, Rossetto O, Montecucco C, Shone CC. Substrate residues N-terminal to the cleavage site of botulinum type B neurotoxin play a role in determining the specificity of its endopeptidase activity. *FEBS Lett.* 1996 May 20;386(2-3):133-6.
74. Pitzurra L, Rossetto O, Chimienti AR, Blasi E, Bistoni F. Tetanus toxin-sensitive VAMP-related proteins are present in murine macrophages. *Cell Immunol.* 1996 Apr 10;169(1):113-6.

75. Tonello F, Morante S, Rossetto O, Schiavo G, Montecucco C. Tetanus and botulism neurotoxins: a novel group of zinc-endopeptidases. *Adv Exp Med Biol.* 1996;389:251-60.
76. Schiavo G, Rossetto O, Benfenati F, Poulain B, Montecucco C. Tetanus and botulinum neurotoxins are zinc proteases specific for components of the neuroexocytosis apparatus. *Ann N Y Acad Sci.* 1994 Mar 9;710:65-75.
77. Regazzi R., Wolheim C. B., Rossetto O., Montecucco C., Weller U., Palmer M. and Thorens B. The vesicle-associated membrane protein VAMP-2 is expressed in pancreatic  $\beta$ -cells and is essential for CA2+- but not for GTP\_S-induced insulin secretion. (1995) *EMBO J.*, 14, 2723-2730.
78. Rossetto O., Deloy F., Poulain B., Pellizzari R., Schiavo G. and Montecucco C. The metallo-proteinase activity of tetanus and botulism neurotoxins.(1995) *J. Physiol. (Paris)* 89, 43-50.
79. Schiavo G., Rossetto O., Tonello F. and Montecucco C. The metalloproteinase activity of tetanus and botulinum neurotoxins.(1995) *Curr. Top. Microbiol. Immunol.* 195, 257-274.
80. Papini E., Rossetto O. and Cutler D. Vesicle-associated membrane protein (VAMP)/synaptobrevin-2 is associated with dense core secretory granules in PC12 neuroendocrine cells. (1994) *J. Biol. Chem.* 270, 1332-1336.
81. Rossetto O., Schiavo G., Montecucco C., Poulain B., Deloy F., Lozzi L. and Shone C. Snare motifs recognized by neurotoxins.(1994) *Nature* 372, 415-416.
82. Schiavo G., Benfenati F., Poulain B., Rossetto O., Shone C.C., DasGupta B.R. and Montecucco C. Tetanus and botulinum neurotoxins are zinc proteases specific for proteins involved in vesicle docking and fusion. (1994) *Bacterial protein toxins*, Edited by Freer et al., Gustav Fischer, Jena, New York.
83. Schiavo G., Rossetto O. and Montecucco C. Clostridial neurotoxins as tools to investigate the molecular vents of neurotransmitter release. (1994) *Seminars in Cell Biol.* 5, 221-229.
84. Patarnello T., Bargelloni L., Rossetto O., Schiavo G. and Montecucco C. Neurotransmission and secretion. (1993) *Nature*, 364, 581-582
85. Schiavo G., Rossetto O. and Montecucco C. Le basi molecolari del tetano e del botulismo. (1993) *Le Scienze*, italian ed. of *Scientifican American*, 304, 40-48.
86. Schiavo G., Rossetto O., Catsicas Stefan, Polverino de Laureto P., DasGupta B.R., Benfenati F. and Montecucco C. Identification of the nerve terminal targets of Botulinum neurotoxin serotypes A, D, and E. (1993) *J. Biol. Chem.*, 268, 23784-23787.
87. Rossetto O., Schiavo G., Benfenati F. and Montecucco C. Tetanus and botulinum neurotoxins are neurospecific zinc proteases. (1993) *Acta Medica Romana*, vol. 31 n.2., 289-296.
88. Poulain, B., Rossetto O., Deloye, F., Schiavo, G., Tauc, L. and Montecucco, C. Antibodies against rat-brain VAMP/synaptobrevin prevent inhibition of acetylcholine release by tetanus toxin or botulinum neurotoxin type B. (1993) *J. Neurochem.*, 61, 1175-1178.
89. Schiavo G.; Shone C., Rossetto O., Alexander F. and Montecucco C. Botulinum neurotoxin serotype F is zinc endopeptidase specific for VAMP/Synaptobrevin. (1993) *J. Biol. Chem.* 268, 11516-11519.

90. Schiavo G., Benfenati F., Poulain B., Rossetto O., Polverino De Laureto P., DasGupta B. and Montecucco C. Tetanus and Botulinum-B neurotoxins block neurotransmitters release by proteolytic cleavage of synaptobrevin-2. (1992) *Nature*, 359, 832-835.
91. Schiavo G., Rossetto O., Santucci A., DasGupta B. and Montecucco C. Botulinum neurotoxins are zinc proteins. (1992) *J. Biol. Chem.* 267, 23479-23483.
92. Schiavo G., Poulain B., Rossetto O., Benfenati F., Tauc L. and Montecucco C. Tetanus toxin is a zinc protein and its inhibition of neurotransmitter release and protease activity depend on zinc. (1992) *EMBO J.* 11, n. 10, p. 3577-3583.
93. Rossetto O., Schiavo G., Polverino De Laureto P., Fabbiani S. and Montecucco C. Surface topography of histidine residues of tetanus toxin probed by immobilized-metal-ion affinity chromatography. (1992) *Biochem. J.* 285, p. 9-12.
94. Montecucco C., Papini E., Schiavo G., Padovan E. and Rossetto O. Ion channel and membrane traslocation of diphtheria toxin. (1992) *FEMS Microbiol. Immunol.* 105, 101-112.
95. Schiavo G., Ferrari G., Rossetto O. and Montecucco C. Tetanus toxin receptor. Specific cross-linking of tetanus toxin to a protein of NGF-differentiated PC12 cells. (1991) *F.E.B.S. Lett.* 290, n. 1,2, p. 227-230.

## CAPITOLI

1. Lonati D., Rossetto O., Fenicia L. and Locatelli C. (2009). Botulism. In B. Ballantyne, et al., eds., *General and Applied Toxicology*. Third edition, Vol. 6, Chapter 148, pp. 3555-3579, John Wiley & Sons, Ltd.
2. Rossetto O, Montecucco C. Presynaptic neurotoxins with enzymatic activities. *Handb Exp Pharmacol.* 2008;(184):129-70.
3. Montecucco C., Rossetto O. and Popoff M.R. (2006). Neurotoxicogenic Clostridia. In S. Falkow et al., eds., *The Prokaryotes: An Evolving Electronic Resource for the Microbiological Community*, 3rd edition, Release 3.20, Springer-Verlag, New York
4. Montecucco C. and Rossetto O. (2004). Tetanus neurotoxin. In: *Handbook of Proteolytic Enzymes 2/E*. Academic Press. chapter 117, pp. 448-451
5. Rossetto O., and Montecucco C. (2004). Clostridial neurotoxins. In: *Microbial Toxins. Molecular and Cellular Biology*. T. Proft ed. chapter 7, 149-178. Horizon Scientific Press, Norfolk, UK.
6. Rossetto O., Rigoni M, Caccin P. and Montecucco C. (2004). Studies on the mechanism of blockade of acetylcholine release by snake presynaptic PLA2 neurotoxins. In: *Cholinergic Mechanisms: Function and Dysfunction*. Chapter 128.
7. Montecucco C. and Rossetto O. (2004). Tetanus neurotoxin. In: *Handbook of Proteolytic Enzymes 2/E*. Academic Press. chapter 117, pp. 448-451
8. Montecucco C. and Rossetto O. (2004). Tetanus neurotoxin. In: *Handbook of Proteolytic Enzymes 2/E*. Academic Press. chapter 117, pp. 448-451
9. Rossetto O., Tonello F. and Montecucco C. (2003). Proteases. In: *Bacterial Protein Toxins* (eds. Barbieri J., Rappuoli R., Iglewski B. and Burns D.). ASM Press, chapter 19, 271-282.

10. Rossetto O and Montecucco C (2003). How botulinum toxin work. In: Handbook of botulinum toxin treatment 2<sup>nd</sup> edition, (eds. Moore AP and Naumann M). Blackwell Science Ltd. chapter 2, 9-27.
11. Montecucco C. and Rossetto O. (2003). Quando una tossina si trasforma in un farmaco. *Kos*. 210, 22-25.
12. Rossetto O., Caccin P., Rigoni M., Seveso M., Tonello F., Stevens R.C. and Montecucco C. (2002). The metalloprotease activity of tetanus and botulinum neurotoxins. In: Scientific and therapeutic aspect of botulinum toxin” (eds Jankovic J., Hallett M. and Brin M.F.). Lippincott Williams and Wilkins, chapter 1, 3-10.
13. Rossetto O., Seveso M., Caccin P. and Cesare Montecucco (2002). Botulinum neurotoxins are metalloproteases specific for SNARE proteins involved in neuroexocytosis. In: Hyperhidrosis and Botulinum in Dermatology (eds: Kreyden O., Böni and Burg G.) *Curr. Probl. Dermatol.*, Basel Karger, 30,117-25.
14. Rossetto O. and Montecucco C. (2002). Bacterial toxins with metalloprotease activity. *Perspectives in Molecular Toxinology* (ed. A. Menez). John Wiley & Sons, Ltd., chapter 1, 3-22.
15. de Bernard M., Rossetto O. and Montecucco C. (2001). Bacterial toxin: intracellular trafficking and target identification. In: “Molecular Cellular Microbiology” (eds. P. Sansonetti and A. Zachlinsky). Academic Press, London. Chapter 16, 297-317.
16. Rossetto, O., G. Schiavo and C. Montecucco. Clostridium tetani and tetanus neurotoxin. *Mol. Med. Microbiol.* (ed. M. Sussman) (2001), Academic Press, Chapter 90, 1905-1919.
17. MONTECUCCO, C., PELLIZZARI, R., ROSSETTO, O., SCHIAVO, G., TONELLO, F. & WASHBOURNE, P. Clostridial Neurotoxins as Enzymes: Structure and Function. In “Cellular and Molecular Mechanisms of Toxin Action on Secretory Systems” (Linial, M & Grasso, A. Eds.) (1998), pp.315-331. Harwood Academic Publishers, Amsterdam
18. Rossetto O., and R. Pellizzari Botulinum neurotoxins type A and B (Clostridium botulinum) Guidebook to protein toxins and their use in cell biology. Edited by Rino Rappuoli and Cesare Montcucco, Sambrook and Tooze Eds., Oxford, 1997
19. R. Pellizzari and O. Rossetto "Tetanus neurotoxin (Clostridium tetani)". Guidebook to protein toxins and their use in cell biology Edited by Rino Rappuoli and Cesare Montcucco, Sambrook and Tooze Eds., Oxford, 1997
20. Montecucco C, Schiavo G, Rossetto O. The mechanism of action of tetanus and botulinum neurotoxins. *Arch Toxicol Suppl.* 1996;18:342-54.
21. Montecucco C., Schiavo G., Papini E., Rossetto O., De Bernard M., Tonello F., Moll G.N. and Washbourne P.E. Traslocation of bacterial protein toxins across membranes. (1995) In "Biochemistry of cell mambrane. A compendium of selected topics" S. Papa and J. tager Eds. Birkhauser Verlag A.G., Basel.
22. Schiavo G., Rossetto O., Morante S., Tonello F., Pelizzari R. and Montecucco C. Tetanus and botulinum neurotoxins: a new group of metallo-proteinases. (1995) *Biochimica in Italia*, 3, 27-43.
23. Schiavo G., Benfenati F., Poulain B., Rossetto O., Shone C.C., DasGupta B.R. and Montecucco C. Tetanus and botulinum neurotoxins are zinc proteases specific for



- proteins involved in vesicle docking and fusion. (1994) *Bacterial protein toxins*, Edited by Freer et al., Gustav Fischer, Jena, New York.
24. Schiavo G., Rossetto O. and Montecucco C. Clostridial neurotoxins as tools to investigate the molecular vents of neurotransmitter release. (1994) *Seminars in Cell Biol.* 5, 221-229.
  25. Schiavo G., Rossetto O. and Montecucco C. Toxin and exocytosis. (1994) *Annals of New York Academy of Sciences*, edited by D. Suput and R. Zorec.
  26. Schiavo G., Rossetto O. and Montecucco C. Il meccanismo d'azione delle neurotossine responsabili del tetano e del botulismo. (1993) *Oris medicina*, 8, 46-49.
  27. Schiavo G., Rossetto O. and Montecucco C. Le basi molecolari del tetano e del botulismo. (1993) *Le Scienze*, italian ed. of *Scientifican American*, 304, 40-48.
  28. Schiavo G., Rossetto O., Ferrari G. and Montecucco C. The neurospecific binding of tetanus toxin is medaited by a 20 kDa protein and by acidic lipids. (1993) *Botulinum and tetanus neurotoxins*, Edited by B.R. DasGupta, Plenum Press, New York.
  29. Rossetto O., Schiavo G., Benfenati F. and Montecucco C. Tetanus and botulinum neurotoxins are neurospecific zinc proteases. (1993) *Acta Medica Romana*, vol. 31 n.2., 289-296.