

Valtorta

*M. Pennuto, A. Contestabile, D. D. Dunlap, F. Benfenati and F. Valtorta

Fluorescence resonance energy transfer detection of synaptophysin I and Vesicle-associated membrane protein 2 interactions during exocytosis from single live synapses.
Mol. Biol. Cell, 13: 2706-2717 (2002).

*C. Leoni and F. Valtorta

Constitutive TrkA activity in PC12 over-expressing clones.
Biochem. Biophys. Res. Comm., 291: 972-978 (2002).

*A. Menegon, C. Verderio, C. Leoni, F. Benfenati, A.J. Czernik, P. Greengard, M. Matteoli and F. Valtorta

Spatial and temporal regulation of Ca^{2+} /calmodulin-dependent protein kinase II activity in developing neurons.
J. Neurosci., 22: 7016-7026 (2002).

P. D'Adamo, H. Welzl, S. Papadimitriou, M. Raffaele di Barletta, C. Tiveron, L. Tatangelo, P. F. Chapman, S. G. Knevett, M. F. Ramsay, F. Valtorta, C. Leoni, A. Menegon, D. P. Wolfer, H. P. Lipp and D. Toniolo

Deletion of the mental retardation gene Gdi1 impairs associative memory and alters social behavior in mice.
Hum. Mol. Gen., 11: 2567-2580 (2002).

S. Messina, F. Onofri, L. Bongiorno Borbone, S. Giovedì, F. Valtorta, J.-A. Girault and F. Benfenati

Specific interactions of neuronal focal adhesion kinase isoforms with Src kinases and amphiphysin.

J. Neurochem., 84: 253-265 (2003).

*A. Contestabile, D. Bonanomi, F. Burgaya, J.A. Girault and F. Valtorta

Localization of focal-adhesion-kinase isoforms in cells of the central nervous system.

Int. J. Dev. Neurosci., 21: 83-93 (2003).

*M. Pennuto, D. Bonanomi, F. Benfenati and F. Valtorta

Synaptophysin I controls the targeting of VAMP2/synaptobrevin II to synaptic vesicles.

Mol. Biol. Cell, 14: 4909-4919 (2003).

*F. Valtorta, M. Pennuto, D. Bonanomi and F. Benfenati

Synaptophysin: leading actor or walk-on role in synaptic vesicle exo-endocytosis?

BioEssays, 26: 445-453 (2004).

M. Rigoni, G. Schiavo, A.E. Weston, P. Caccin, F. Allegrini, M. Pennuto, F. Valtorta, C. Montecucco and O. Rossetto
Snake presynaptic neurotoxins with phospholipase A2 activity induce punctate swellings of neurites and exocytosis of synaptic vesicles.

J. Cell Sci., 117: 3561-3570 (2004).

*F. Fiumara, S. Giovedì, A. Menegon, C. Milanese, D. Merlo, P. G. Montarolo, F. Valtorta, F. Benfenati and M. Ghirardi
Phosphorylation of synapsin by protein kinase A is required for the maturation of neurotransmitter release mechanisms

J. Cell Sci., 117: 5145-5154 (2004).

S. Giovedì, P. Vaccaro, F. Valtorta, F. Darchen, P. Greengard, G. Cesareni, and F. Benfenati

Synapsin I is a novel Rab3 effector protein on small synaptic vesicles. I. Identification and characterization of the synapsin I-Rab3 interactions in vitro and in intact nerve terminals.

J. Biol. Chem., 279: 43760-43768 (2004).

S. Giovedì, F. Darchen, F. Valtorta, P. Greengard and F. Benfenati
Synapsin I is a novel Rab3 effector protein on small synaptic vesicles. II. Functional effects of the Rab3A-synapsin 1 interaction.

J. Biol. Chem., 279: 43769-43779 (2004).

*D. Bonanomi, M. Pennuto, M. Rigoni, O. Rossetto, C. Montecucco and F. Valtorta

Taipoxin induces synaptic vesicle exocytosis and disrupts the interaction of synaptophysin I with VAMP2.

Mol. Pharmacol., 67: 1901-1908 (2005).

*D. Bonanomi, A. Menegon, A. Miccio, G. Ferrari, A. Corradi, H.T. Kao, F. Benfenati and F. Valtorta

Phosphorylation of Synapsin I by cAMP-dependent protein kinase controls synaptic vesicle dynamics in developing neurons.

J. Neurosci., 25: 7299-7308 (2005).

A. Fassio, D. Merlo, J. Mapelli, A. Menegon, A. Corradi, S. Zappettini, G. Bonanno, F. Valtorta, E. D'Angelo and F. Benfenati.
The synapsin domain E accelerates the exo-endocytotic cycle of synaptic vesicles in cerebellar Purkinje cells.

J. Cell Sci., 119: 4257-4268 (2006).

*A. Menegon, D. Bonanomi, C. Albertinazzi, F. Lotti, G. Ferrari, H.T. Kao, F. Benfenati, P. Baldelli and F. Valtorta.

Protein kinase A-mediated synapsin I phosphorylation is a central modulator of Ca^{2+} -dependent synaptic activity

J. Neurosci., 26:11670-11681 (2006).

D. Bonanomi, F. Benfenati and F. Valtorta.
Protein sorting in the synaptic vesicle life cycle.
Progr. Neurobiol., 80: 177-217 (2006).

D. Ghezzi, A. Pedrocchi, A. Menegon, S. Mantero, F. Valtorta and
G. Ferrigno
PhotoMEA: opto-electronic biosensor for monitoring in vitro
neuronal networks activity.
BioSystems, 87:150-155 (2007).

D. Bonanomi, L. Rusconi, C. Colombo, F. Benfenati and F. Valtorta
Synaptophysin I selectively specifies the exocytic pathway of
Synaptobrevin2/VAMP2.
Biochem. J., 404: 525-534 (2007).

F. Onofri, M. Messa, V. Matafora, G. Bonanno, A. Corradi, A.
Bachi, F. Valtorta and F. Benfenati
Synapsin phosphorylation by src tyrosine kinase enhances src
activity in synaptic vesicles
J. Biol. Chem., 282: 15754-15767 (2007).

S. Gualdoni, C. Albertinazzi, S. Corbetta, F. Valtorta, and I. de
Curtis
Normal levels of Rac1 are essential for dendritic, but not axonal
development in hippocampal neurons
Biology of the Cell, 99: 455-464 (2007).

A. Badaloni, D. Bonanomi, I. Albieri, I. Givogri, E. Bongarzone, F.
Valtorta, G.G. Consalez
Mice expressing a dual, Cre-inducible reporter for the analysis of
axon guidance and synaptogenesis
Genesis, 45: 405-412 (2007).

P. Baldelli, A. Fassio, F. Valtorta, and F. Benfenati
Lack of synapsin I reduces the readily releasable pool of synaptic
vesicles at central inhibitory synapses.
J. Neurosci., 27: 13520-13531 (2007).

M. Tschernatsch, M. Klotz, C. Probst, M. Strittmatter, F. Valtorta, T.
Gerriets, M. Kaps, K.H. Schäfer, and F. Blaes
Synaptophysin is an autoantigen in paraneoplastic neuropathy.
J. Neuroimmunol. : 197 81-86 (2008).

A. Corradi, A. Zanardi, C. Giacomini, F. Onofri, F. Valtorta, M. Zoli
and F. Benfenati
Synapsin null mice display an increased age-dependent cognitive
impairment.
J. Cell Sci., 121: 3042-3051 (2008).

D. Bonanomi, E. Fornasiero, G. Valdez, S. Halegoua, F. Benfenati, A. Menegon, F. Valtorta
Identification of a developmentally-regulated pathway of membrane retrieval in neuronal growth cones.
J. Cell Sci., 121: 3757-3769 (2008).

G. Colasante, P. Collombat, V. Raimondi, D. Bonanomi, C. Ferrai, M. Maira, K. Yoshikawa, A. Mansouri, F. Valtorta, J.L. Rubenstein and V. Broccoli
Arx is a direct Dlx target gene in the developing forebrain and modulates its GABAergic migration activity.
J. Neurosci., 28: 10674-10686 (2008).

D. Ghezzi, A. Menegon, A. Pedrocchi, F. Valtorta and G. Ferrigno.
A Micro-Electrode Array device coupled to a laser-based system for the local stimulation of neurons by optical release of glutamate.
J. Neurosci. Methods, 175: 70-78 (2008).

M. Chiappalone, S. Casagrande, M. Tedesco, F. Valtorta, P. Baldelli, S. Martinoia, F. Benfenati
Opposite changes in glutamatergic and GABAergic transmission underlie the diffuse hyperexcitability of synapsin I-deficient cortical networks.
Cereb. Cortex. 19: 1422-1439. (2009).

D. Ghezzi, R. Martinez Vazquez, R. Osellame, F. Valtorta, A. Pedrocchi, R. Ramponi, G. Ferrigno, G. Cerullo
Femtosecond laser microfabrication of an integrated device for optical compound release and sensing.
Sensors, 8: 6595-6604 (2008).

V. L. Sousa, S. Bellani, M. Giannandrea, M. Yousuf, F. Valtorta, J. Meldolesi and E. Chieregatti
Alpha-synuclein and its A30P mutant affect the actin cytoskeleton structure and dynamics.
Mol. Biol. Cell, [Epub ahead of print] (2009).