

Meldolesi J.

Histochemical study of some dehydrogenases of nucleate cells of the blood and bone marrow of normal subjects and blood disease patients.
Haematologica 49, 644-662 (1964)

Belfiore F., **Meldolesi J.** and Calcara G.

Erythrocyte enzymes in thalassaemia and thalassodrepanocytosis.
Acta Haematol. 34, 329-337 (1965).

Pelosi G., **Meldolesi J.** and Nidiri J.

Ultrastructural and biochemical aspects of the myocardium in guinea-pigs treated with diphtheria toxin.
Med. Pharmacol. Exp. 14, 537-549 (1966)

Peracchia C., **Meldolesi J.** and Pelosi G.

Ultrastructural alterations of the rat sciatic nerve in tetanic poisoning.
Sperimentale 116, 169-189 (1966)

Meldolesi J. and Clementi F.

The endoplasmic reticulum of the hepatic cell after the administration of drugs.
Pathol. Biol. 15, 215-228 (1967)

Meldolesi J., Clementi F., Chiesara E., Conti F. and Fanti A.

Cytoplasmic changes in rat liver after prolonged treatment with low doses of ethionine and adenine. An ultrastructural and biochemical study.
Lab. Invest. 17, 265-275 (1967)

Meldolesi J., Pelosi G., Brunelli A. and Genovese E.

Electron microscopic studies on the effects of amanitin in mice: liver and heart lesions.
Arch. Pharmacol. 342, 221-235 (1967)

Meldolesi J.

On the significance of the hypertrophy of the smooth endoplasmic reticulum in liver cells after the administration of drugs.

Biochem. Pharmacol. 16, 125-129 (1967)

Vincenzi L., **Meldolesi J.**, Morini M.T. and Bassan P.

Protective effect of phenobarbital and SKF 525a on the acute ethanol-induced fatty liver.
Biochem. Pharmacol. 16, 2431-2432 (1967)

Meldolesi J.

Protective effects of alpha-tocopherol on the hepatotoxicity of carbon tetrachloride: an electron microscope study.

Exp. Mol. Pathol. 9, 141-147 (1968)

Meldolesi J. and Macchi G.

Effect of adrenaline on the in vitro enzyme secretion in the guinea-pig pancreas.
Experientia 28, 50-51(1972)

Chiesara E., Clementi E., Conti F. and **Meldolesi J.**

The induction of drug-metabolizing enzymes in rat liver during growth and regeneration.
Lab. Invest. 16, 254-267 (1967)

Meldolesi J., Clementi F., Chiesara E., Conti F. and Fanti A.
Cytoplasmic changes in rat liver after prolonged treatment with low doses of ethionine and adenine.
Lab. Invest. 17, 265-275 (1967)

Meldolesi J., Vicenzi L., Bassan P. and Morini M.T.
Effect of carbon tetrachloride on the synthesis of liver endoplasmic reticulum membranes.
Lab. Invest. 19, 315-323 (1968)

De Virgilis G., **Meldolesi J.** and Clementi F.
Ultrastructure of growth hormone-producing cells of rat pituitary after injection of hypothalamic extract.
Endocrinology 83, 1278-1284 (1968)

Chiesara E., Conti F. and **Meldolesi J.**
Influence of partial hepatectomy on the induction of liver microsomal drug-metabolizing enzymes produced by phenobarbital.
Lab. Invest. 22, 329-338 (1970)

Meldolesi J.
Effect of caerulein on protein synthesis and secretion in the guinea pig pancreas.
Brit. J. Pharmacol. 40, 721-731 (1970)

Meldolesi J., Jamieson J.D. and Palade G.E.
Composition of cellular membranes in the pancreas of the guinea pig. I. Isolation of membrane fractions.
J. Cell Biol. 49, 109-129 (1971)

Meldolesi J., Jamieson J.D. and Palade G.E.
Composition of cellular membranes in the pancreas of the guinea pig. II. Lipids.
J. Cell Biol. 49, 130-149 (1971)

Meldolesi J., Jamieson J.D. and Palade G.E.
Composition of cellular membranes in the pancreas of the guinea pig. III. Enzymatic activities.
J. Cell Biol. 49, 150-158 (1971)

Meldolesi J.
Studies on cytoplasmic membrane fractions from guinea pig pancreas.
In Adv in Cytopharmacology, Clementi F. and Ceccarelli B. eds 1, 145-157 (1971)

Meldolesi J. and Cova D.
In vitro-stimulation of enzyme secretion and the synthesis of microsomal membranes in the pancreas of the guinea pig.
J. Cell Biol. 51, 396-404 (1972)

Meldolesi J. and Cova D.
Composition of cellular membranes in the pancreas of the guinea pig. IV. Polyacrylamide gel electrophoresis and amino acid composition of membrane proteins.
J. Cell Biol. 55, 1-18 (1972)

Meldolesi J., Marini D. and Delmonte Marini M.L.
Studies on in vitro-synthesis and secretion of growth hormone and prolactin. I. Hormone pulse labeling with radioactive leucine.

Endocrinology 91, 802-808 (1972)

Zanini A., Giannattasio G. and **Meldolesi J.**

Studies on in vitro- synthesis and secretion of growth hormone and prolactin. II. Evidence against existence of precursor molecules.

Endocrinology 94, 104-111 (1974)

Zanini A., Giannattasio G. and **Meldolesi J.**

Separation of rat pituitary growth hormone and prolactin by SDS polyacrylamide gel electrophoresis.

Endocrinology 94, 594-598 (1974)

Meldolesi J.

Dynamics of cytoplasmic membranes in pancreatic acinar cells.

Phil. Trans. Royal Soc. Lond. B. 269, 39-53 (1974)

De Camilli P. and **Meldolesi J.**

Subcellular distribution of the PI effect in the pancreas of the guinea pig.

Life Sciences 15, 711-721 (1974)

Meldolesi J.

Secretory mechanism in pancreatic acinar cells. Role of the cytoplasmic membranes. In: Cytopharmacology of secretion.

B. Ceccarelli, F. Clementi, J. Meldolesi, eds., Raven Press, New York pp. 71-85 (1974)

Ceccarelli B., Clementi F. and **Meldolesi J.** (eds)

Cytopharmacology of secretion.

Raven Press, New York p 382 (1974)

De Camilli P., Pelucchetti D. and **Meldolesi J.**

Structural difference between luminal and lateral plasmalemma in pancreatic acinar cells.

Nature 248, 245-246 (1974)

Meldolesi J.

Dynamics of cytoplasmic membranes in guinea pig pancreatic acinar cells. I. Synthesis and turnover of membrane proteins.

J. Cell Biol. 61, 1-13 (1974)

Meldolesi J., De Camilli P. and Pelucchetti D.

The membrane of secretory granules: structure, composition and turnover.

In Secretory Mechanisms of Exocrine Glands, N.A. Thorn and O.H. Petersen eds., Munksgaard, Copenhagen pp. 137-151 (1974)

Clemente F. and **Meldolesi J.**

Calcium and pancreatic secretion. I. Subcellular distribution of calcium and magnesium in the exocrine pancreas of the guinea pig.

J. Cell Biol. 65, 88-104 (1975)

Clemente F. and **Meldolesi J.**

Calcium and pancreatic secretion. II. Dynamics of subcellular calcium pools in the resting and stimulated acinar cells.

British J. Pharmacol. 55, 369-379 (1975)

Ceccarelli B., Clemente F. and **Meldolesi J.**

Secretion of calcium in the pancreatic juice.

J. Physiol. (London) 245, 617-638 (1975)

Giannattasio G., Zanini A. and **Meldolesi J.**

Molecular organization of rat prolactin granules. I. In vitro stability of intact and membraneless granules.

J. Cell Biol. 64, 246-251 (1975)

Borgese N., De Camilli P., Tanaka Y. and **Meldolesi J.**

Membrane interactions in secretory cell systems.

In Secretory Mechanisms, XXXIII Symposium of the Society for experimental biology 117-144 (1979)

Galli P., Brenna A., De Camilli P. and **Meldolesi J.**

Role of extracellular calcium in the organization of tight junctions in pancreatic acinar cells.

Exp. Cell Res. 99, 178-183 (1976)

De Camilli P., Pelucchetti D. and **Meldolesi J.**

Dynamic changes of the luminal plasmalemma in stimulated parotid acinar cells. A freeze-fracture study.

J. Cell Biol. 70, 59-74 (1976)

Borgese N. and **Meldolesi J.**

Immunological similarity of the NADH-cytochrome C. electron transport system in microsomes, Golgi complex and mitochondrial outer membrane of rat liver cells.

FEBS Letters 63, 231-234 (1976)

Ramellini G. and **Meldolesi J.**

Calcium binding to pancreatic membranes.

In Stimulus-Secretion Coupling in the Gastrointestinal Tract, Case R.M. and Goebell H. eds., MTP Press Ltd, Lancaster, pp. 393-396 (1976)

Meldolesi J., Ramellini G. and Clemente F.

Calcium compartmentalization in pancreatic acinar cells.

In Calcium transport in contraction and secretion, Carafoli E., Clementi F., Drabikowski W. and Margreth A. eds., North-Holland Publishing Company – Amsterdam pp. 157-166 (1976)

Ceccarelli B., Hurlbut P.W., De Camilli P. and **Meldolesi J.**

The effect of extracellular calcium on the topological organization of the plasmalemma in two secretory systems.

Ann. N.Y. Acad. Sci. 307, 653-655 (1978)

Meldolesi J., Borgese N., De Camilli P. and Ceccarelli B.

Cytoplasmic membranes and the secretory process.

In: Membrane Fusion. G. Poste and G.N. Nicolson eds., Elsevier-North Holland, New York and Amsterdam p. 509-627 (1978)

Meldolesi J., Castiglioni G., Parma R., Nassivera N. and De Camilli P.

Ca++ Dependent disassembly and reassembly of occluding junctions in guinea pig pancreatic acinar cells. Effect of drugs.

J. Cell Biol. 79, 156-172 (1978)

Zanini A., Giannattasio G., De Camilli P., Panerai A., Muller E.E. and **Meldolesi J.**

Studies on rat pituitary homografts. I. In vitro biosynthesis and release of growth hormone and prolactin.

Endocrinology 104, 226-236 (1979)

Giannattasio G., Zanini A., Panerai A., **Meldolesi J.** and Muller E.E.
Studies on rat pituitary homografts. II. Effects of thyrotropin releasing hormone on in vitro biosynthesis and release of growth hormone and prolactin.
Endocrinology 104, 237-242 (1979)

Giannattasio G, Zanini A. and **Meldolesi J.**
Complex carbohydrates of secretory organelles.
In Complex Carbohydrates of Nervous Tissue, Margolis R.U. and Margolis R.K. eds., plenum Press – New York and London pp. 327-340 (1979)

Borgese N., De Camilli P., Tanaka Y. and **Meldolesi J.**
Membrane interactions in secretory cell systems.
Symposia Soc Exp Biol, Secretory Mechanisms – 33, 117-144 (1979)

Borgese N., **Meldolesi J.**, Bonatti S. and Cancedda R.
Studies on the intracellular distribution of Sindbis messenger RNA in infected chick embryo fibroblasts. 2. Non-parallel distribution of 26-S RNA and ribosomes within microsomal subfractions.
Eur. J. Biochem. 103, 65-73 (1980)

Bonatti S., Cerasuolo A., Cancedda R., Borgese N. and **Meldolesi J.**
Studies on the intracellular distribution of Sindbis messenger RNA in infected chick-embryo fibroblasts. 1. Presence of extrapolyribosomal 26-S RNA in the membrane fraction.
Eur. J. Biochem. 103, 53-64 (1980)

Tanaka Y., De Camilli P. and **Meldolesi J.**
Membrane interactions between secretion granules and plasmalemma in three exocrine glands.
J. Cell Biol. 84, 438-453 (1980)

Borgese N. and **Meldolesi J.**
Localization and biosynthesis of NADH-cytochrome b₅ reductase - an integral membrane endoprotein- in rat liver cells. I. Distribution of the enzyme activity in microsomes, mitochondria and Golgi complex.
J. Cell Biol. 85, 501-515 (1980)

Meldolesi J., Corte G., Pietrini G. and Borgese N.
Localization and biosynthesis of NADH-cytocrome b₅ reductase - an integral membrane endoprotein - in rat liver cells. II. Evidence that one single enzyme accounts for the activity in its different subcellular locations.
J. Cell Biol. 85, 516-527 (1980)

Borgese N., Pietrini G. and **Meldolesi J.**
Localization and biosynthesis of NADH-cytocrome b₅ reductase - an integral membrane endoprotein - in rat liver cells. III. Evidence for the independent insertion and turnover of the enzyme in different subcellular compartments.
J. Cell Biol. 86, 38-45 (1980)

Rez G. and **Meldolesi J.**
Freeze-fracture of drug-induced autophagocytosis in the mouse exocrine pancreas.
Lab. Invest. 43, 269-277 (1980)

Zanini A., Giannattasio G., Nussdorfer G., Margolis R.U., Margolis R.K. and **Meldolesi J.**
 Molecular organization of prolactin granules. II. Characterization of glycosaminoglycans and glycoproteins of the bovine prolactin granule matrix.
J. Cell Biol. 86, 266-272 (1980)

Giannattasio G., Zanini A., Rosa P., **Meldolesi J.**, Margolis R.K. and Margolis R.U.
 Molecular organization of prolactin granules. III. Intracellular transport of sulfated glycosaminoglycans and glycoproteins of the bovine prolactin granule matrix.
J. Cell Biol. 86, 273-279 (1980)

De Camilli P., Zanini A., Giannattasio G. and **Meldolesi J.**
 Synthesis, intracellular transport, packaging and release of growth hormone and prolactin in normal and tumoral pituitary cells.
 In *Pituitary Microadenomas*, Faglia G., Giovanelli M.A. and MacLeod R.M. eds., Academic Press – New York pp. 55-72 (1980)

Meldolesi J. and Borgese N.
 Membrane synthesis and turnover in secretory cell systems.
Methods Cell Biol. 23, 445-60 (1981)

Koike H. and **Meldolesi J.**
 Post-stimulation retrieval of luminal surface membrane in parotid acinar cells is calcium-dependent.
Exp. Cell Res. 134, 377-388 (1981)

Meldolesi J. and Ceccarelli B.
 Exocytosis and membrane recycling.
Phil. Trans. R. Soc. Lond. B 296, 55-65 (1981)

Koike H., Steer M.L. and **Meldolesi J.**
 Pancreatic effects of ethionine: blockade of exocytosis and appearance of crinophagy and autophagy precede cellular necrosis.

Am. J. Physiol. 242, 297-307 (1982)
 Picotti G.B., Bondiolotti G.P. and **Meldolesi J.**
 Peripheral catecholamine release by alpha-latrotoxin in the rat.
Naunyn Schmiedebergs Arch. Pharmacol. 320, 224-229 (1982)

Meldolesi J.
 Studies on latrotoxin receptors in rat brain synaptosomes: correlation between toxin binding and stimulation of transmitter release.
J. Neurochem. 38, 1559-1569 (1982)

Nicholls D.G., Rugolo M., Scott I.G. and **Meldolesi J.**
 α -Latrotoxin of black widow spider venom depolarizes the plasma membrane, induces massive calcium influx and stimulates transmitter release in guinea pig brain synaptosomes.
Proc. Natl. Acad. Sci. USA 79, 7924-7928 (1982)

Meldolesi J.
 Secretion, basic mechanism.
 In: *Plasma protein secretion by the liver*. Glaumann H. et al. eds., Academic Press, New York, p. 7-28 (1983)

Watanabe O. and **Meldolesi J.**
 The effects of α -latrotoxin of black spider venom on synaptosome ultrastructure. A morphometric analysis correlating its effect on transmitter release.

J. Neurocytol. 12, 517-531 (1983)

Meldolesi J.

Membranes of pancreatic zymogen granules.

In Methods in Enzymology: membrane biogenesis, sorting and transport of membrane constituents. Fleischer, S. and Fleischer, B., eds., Academic press, New York 98, 67-75 (1983)

Meldolesi J., Madeddu L., Torda M., Gatti G. and Niutta E.

The effect of α -latrotoxin on the neurosecretory PC12 cell line. Studies on toxin binding and stimulation of transmitter release.

Neurosci. 10, 997-1009 (1983)

Watanabe O., Torda M. and **Meldolesi J.**

The effect of α -latrotoxin on the neurosecretory PC12 cell line. Electron microscopy and cytotoxicity studies.

Neurosci. 10, 1011-1024 (1983)

Scheer H., Madeddu L., Dozio N., Gatti G., Vicentini L.M. and **Meldolesi J.**

Alpha latrotoxin of black widow spider venom: an interesting neurotoxin and a tool for investigating the process of neurotransmitter release.

J. Physiol. (Paris) 79, 216-221 (1984)

Watanabe O., Baccino F.M., Steer M.L. and **Meldolesi J.**

Supramaximal caerulein stimulation and ultrastructure of rat pancreatic acinar cell: early morphological changes during development of experimental pancreatitis.

Am. J. Physiol. 246, G457-467 (1984)

Steer M.L., **Meldolesi J.** and Figarella C.

Pancreatitis. The role of lysosomes.

Dig. Dis. Sci. 29, 934-938 (1984)

Meldolesi J., Huttner W.B., Tsien R.Y. and Pozzan T.

Free cytoplasmic Ca^{2+} and neurotransmitter release. Studies on PC12 cells and synaptosomes exposed to α -latrotoxin.

Proc. Natl. Acad. Sci. USA 81, 620-624 (1984)

Madeddu L., **Meldolesi J.**, Pozzan T., Cardona E. and Bon C.

α -latrotoxin and glycerotoxin differ in target specificity and in some aspects of their action.

Neurosci. 12, 939-949 (1984)

Vicentini M.L. and **Meldolesi J.**

α -Latrotoxin of black widow spider venom binds to a receptor coupled to phosphoinositide breakdown in PC12 cells.

Biochim. Biophys. Res. Comm. 121, 538-544 (1984)

Valtorta E., Madeddu L., **Meldolesi J.** and Ceccarelli B.

Specific localization of the α -latrotoxin receptor in the nerve terminal plasma membrane.

J. Cell Biol. 99, 124-132 (1984)

Pozzan T., Gatti G., Dozio N., Vicentini M.L. and **Meldolesi J.**

Ca^{2+} -dependent and independent release of neurotransmitters from PC12 cells: a role for protein kinase C activation?

J. Cell Biol. 99, 628-638 (1984)

Saluja A., Saito I., Saluja M., Houlihan M.J., Powers R.E., **Meldolesi J.** and Steer M.
In vivo rat pancreatic acinar cell function during supramaximal stimulation with caerulein.
Am. J. Physiol. 249, G702-710 (1985)

Vicentini L.M., Di Virgilio F., Ambrosini A., Pozzan T. and **Meldolesi J.**
Tumor promoter phorbol 12-miristate, 13-acetate inhibits phosphoinositide hydrolysis and
cytosolic Ca^{2+} rise induced by the activation of muscarinic receptors in PC12 cells.
Biochem. Biophys. Res. Comm. 127, 310-317 (1985)

Scheer H. and **Meldolesi J.**
Purification of the putative α -latrotoxin receptor from bovine synaptosomal membranes in an
active binding form.
EMBO J. 4, 323-327 (1985)

Saito I., Dozio N. and **Meldolesi J.**
The effect of α -latrotoxin on the neurosecretory PC12 cells differentiated by treatment with
nerve growth factor.
Neurosci. 14, 1163-1174 (1985)

Vicentini L.M., Ambrosini A., Di Virgilio F., Pozzan T. and **Meldolesi J.**
Muscarinic receptor-induced phosphoinositide hydrolysis at resting cytosolic Ca^{2+}
concentration in PC12 cells.
J. Cell Biol. 100, 1330-1334 (1985)

Madeddu L., Pozzan T., Robello M., Rolandi R., Tsiao T.H. and **Meldolesi J.**
Leptinotoxin-h action in synaptosomes, neurosecretory cells and artificial membranes:
stimulation of ion fluxes.
J. Neurochem. 45, 1708-1718 (1985)

Madeddu L., Saito I., Tsiao T.H. and **Meldolesi J.**
Leptinotoxin-h action in synaptosomes and neurosecretory cells: stimulation of
neurotransmitter release.
J. Neurochem. 45, 1719-1730 (1985)

Sturani E., Vicentini L.M., Zippel R., Toschi L., Pandiella-Alonso A., Comoglio P.M. and
Meldolesi J.
PDGF-induced receptor phosphorylation and phosphoinositide hydrolysis are unaffected by
protein kinase C activation in mouse Swiss 3T3 and human skin fibroblasts.
Biochem. Biophys. Res. Comm. 137, 343-350 (1986)

Meldolesi J., Scheer H., Madeddu L. and Wanke E.
Mechanism of action of α -latrotoxin, the presynaptic stimulatory toxin of the black widow
spider venom.
Trends Pharmacol. Sci. 7, 151-155 (1986)

Kobayashi H., Izumi F. and **Meldolesi J.**
Rat adrenal chromaffin cells become sensitive to α -latrotoxin when cultured in vitro: the effect
of nerve growth factor.
Neurosci. Letters 65, 114-118 (1986)

Wanke E., Ferroni A., Gattanini P. and **Meldolesi J.**
 α -Latrotoxin of the black widow spider venom opens a small, non closing cation channel.
Biochem. Biophys. Res. Comm. 134, 320-325 (1986)

Di Virgilio F., Pozzan T., Wollheim C.B., Vicentini L.M. and **Meldolesi J.**
Tumor promoter phorbol myristate acetate inhibits Ca^{2+} influx through voltage gated Ca^{2+} channels in two secretory cell lines, PC12 and RINm5F.
J. Biol. Chem. 261, 32-36 (1986)

Pozzan T., Di Virgilio F., Vicentini L.M. and **Meldolesi J.**
Activation of muscarinic receptors in PC12 cells. I. Stimulation of ion influx and redistribution.
Biochem. J. 234, 547-553 (1986)

Vicentini L.M., Ambrosini A., Di Virgilio F., **Meldolesi J.** and Pozzan T.
Activation of muscarinic receptors in PC12 cells. II. Correlation between cytosolic Ca^{2+} rise and phosphoinositide hydrolysis.
Biochem. J. 234, 555-562 (1986)

Pandiella A., Malgaroli A., Vicentini L.M. and **Meldolesi J.**
Early rise of cytosolic Ca^{2+} induced by NGF in PC12 and chromaffin cells.
FEBS Letters 208, 48-51 (1986)

Scheer H., Prestipino G. and **Meldolesi J.**
Reconstitution of the purified α -latrotoxin receptor in liposomes and planar lipid membranes.
Clues to the mechanism of toxin action.
EMBO J. 10, 2643-2648 (1986)

Knipper M., Madeddu L., Breer H. and **Meldolesi J.**
Black widow spider venom-induced release of neurotransmitters: mammalian synaptosomes are stimulated by a unique venom component, α -latrotoxin, insect synaptosomes by multiple components.
Neurosci. 19, 55-62 (1986)

Meldolesi J., Malgaroli A., Pandiella A., Ambrosini A., Vicentini L.M., Milani D., DiVirgilio F. and Pozzan T.
Studies on voltage-gated calcium channels by means of fluorescent $[\text{Ca}^{2+}]_i$ indicators.
Calcium and calcium binding proteins, Gerday Ch., Bolis L and Gilles R. eds., Springer-Verlag Berlin pp. 236-242 (1986)

Steer M.L. and **Meldolesi J.**
The cell biology of experimental pancreatitis.
N. Engl. J. Med. 316, 144-150 (1987)

Pandiella A., Malgaroli A., **Meldolesi J.** and Vicentini L.M.
EGF raises cytosolic Ca^{2+} in A431 and Swiss 3T3 cells by a dual mechanism. Redistribution from intracellular stores and stimulated influx.
Exp. Cell. Res. 170, 175-185 (1987)

Saluja A., Hashimoto S., Saluja M., Powers R.E., **Meldolesi J.** and Steer M.L.
Subcellular redistribution of lysosomal enzymes during caerulein-induced pancreatitis.
Am. J. Physiol. 253, G508-516 (1987)

Saito I., Hashimoto S., Saluja A., Steer M.L. and **Meldolesi J.**
Intracellular transport of pancreatic zymogens during caerulein supramaximal stimulation.
Am. J. Physiol. 253, G517-526 (1987)

Pandiella A., Vicentini L.M. and **Meldolesi J.**

Protein kinase C-mediated feed back inhibition of the Ca^{2+} response at the EGF receptor.

Biochem. Biophys. Res. Comm. 149, 145-151 (1987)

Haimann C., **Meldolesi J.** and Ceccarelli B.

The phorbol ester, PMA, enhances the evoked quantal release of acetylcholine at the frog neuromuscular junction.

Pfluger's Arch. 408, 27-31 (1987)

Wanke E., Ferroni A., Malgaroli A., Ambrosini A., Pozzan T. and **Meldolesi J.**

Activation of a muscarinic receptor selectively inhibits a rapidly inactivated Ca^{2+} current in rat sympathetic neurons.

Proc. Natl. Acad. Sci. USA 84, 4313-4317 (1987)

Meldolesi J. and Pozzan T.

Pathways of Ca^{2+} influx at the plasma membrane: voltage, receptor and second messenger-operated channels.

Exp. Cell Res. 171, 271-2873 (1987)

Meldolesi J., Pozzan T. and Ceccarelli B.

Exo-endocytosis: mechanisms of drug and toxin action.

In: Handbook of Exp. Pharmacol. vol. 83, P.F. Baker ed., Springer Verlag, p. 339-359 (1987)

Di Virgilio F., Milani D., Leon A., **Meldolesi J.** and Pozzan T.

Voltage-dependent activation and inactivation of calcium channels in PC12 cells.

J. Biol. Chem. 262, 9189-9195 (1987)

Hashimoto S., Fumagalli G., Zanini A. and **Meldolesi J.**

Sorting of three secretory proteins to distinct secretory granules in acidophilic cells of the cow pituitary.

J. Cell Biol. 105, 1579-1586 (1987)

Malgaroli A., Milani D., **Meldolesi J.** and Pozzan T.

Fura-2 measurement of cytosolic free Ca^{2+} in monolayers and suspensions of various types of animal cells.

J. Cell Biol. 105, 2145-2155 (1987)

Malgaroli A., Vallar L., Reza Elhai F., Pozzan T., Spada A. and **Meldolesi J.**

Dopamine inhibits cytosolic Ca^{2+} increase in rat lactotroph cells. Evidence for a dual mechanism of action.

J. Biol. Chem. 262, 13920-13928 (1987)

Madeddu L. and **Meldolesi J.**

Second messenger control of neurotransmitter release studied at synapses and neurosecretory cells with alatrotoxin and congener stimulatory toxins.

Neurotoxins and their pharmacological implications Jenner P. eds., Raven Press – New York pp. 55-63 (1987)

Steer M.L. and **Meldolesi J.**

Pathogenesis of acute pancreatitis.

Annu. Rev. Med. 39, 95-105 (1988)

Pandiella A., Beguinot L., Velu T.J. and **Meldolesi J.**

Transmembrane signalling at epidermal growth factor receptors overexpressed in NIH 3T3 cells. Phosphoinositide hydrolysis, cytosolic Ca^{2+} increase and alkalinization correlate with epidermal-growth-factor-induced cell proliferation.

Biochem. J. 254, 223-228 (1988)

Pozzan T., Volpe P., Zorzato F., Bravin M., Krause K.H., Lew D.P., Hashimoto S., Bruno B. and **Meldolesi J.**

Ca^{2+} store of non-muscle cells: endoplasmic reticulum or calciosomes?

J. Exp. Biol. 139, 181-193 (1988)

Volpe P., Krause K.H., Hashimoto S., Zorzato F., Pozzan T. and **Meldolesi J.**

"Calciosome", a cytoplasmic organelle: The inositol 1,4,5-trisphosphate-sensitive Ca^{2+} store of nonmuscle cells?

Proc. Natl. Acad. USA 85, 1091-1095 (1988)

Vallar L., Vicentini L.M. and **Meldolesi J.**

Inhibition of inositol phosphate production is a late, Ca^{2+} -dependent effect of D2 dopaminergic receptor activation in rat lactotroph cells.

J. Biol. Chem. 263, 10127-10134 (1988)

Fasolato C., Pandiella A., **Meldolesi J.** and Pozzan T.

Generation of inositolphosphates, cytosolic Ca^{2+} and ionic fluxes in PC12 cells treated with bradykinin.

J. Biol. Chem. 263, 17350-17359 (1988)

Hashimoto S., Bruno B., Lew D.P., Pozzan T., Volpe P. and **Meldolesi J.**

Immunocytochemistry of calciosomes in liver and pancreas.

J. Cell Biol. 107, 2523-2532 (1988)

Meldolesi J., Volpe P. and Pozzan T.

The intracellular distribution of calcium.

Trends Neurosci. 11, 449-452 (1988)

Meldolesi J. and Westhead E.W.

The nervous system, nerve cells and their models.

In: Inositol Lipids and Cell Signalling. R.H. Michell, A.H. Drummond and C.P. Downes ed. Academic Press, London pp. 311-335 (1988)

Malgaroli A., Hashimoto S., Grohovaz F., Fumagalli G., Pozzan T. and **Meldolesi J.**

Intracellular source(s) of $[\text{Ca}^{2+}]_i$ transients in non muscle cells.

Annu. N.Y. Acad. Sci. 551, 159-167 (1988)

Gatti G., Madeddu L., Pandiella A., Pozzan T. and **Meldolesi J.**

Second-messenger generation in PC12 cells.

Biochem. J. 255, 753-760 (1988)

Meldolesi J., Gatti G., Ambrosini A., Pozzan T. and Westhead E.W.

Second-messenger control of catecholamine release from PC12 cells.

Biochem. J. 255, 761-768 (1988)

Meldolesi J. and Ceccarelli B.

Exocytosis and membrane recycling

In: Current Topics in Membranes and Transport, Vol. 32, pp. 139-168 Academic Press (1988)

Meldolesi J., Pozzan T. and Ceccarelli B.

Exo-endocytosis: mechanisms of drugs and toxin action.
In Handbook of Experimental Pharmacology, Vol. 83, pp. 339-359 (1988)

Meldolesi J. and Pozzan T.

Receptor-triggered release of calcium ions from intracellular stores (calciosomes?) in glandular cells.

In Exocrine secretion, Wong P.Y.D. and Young J.A., Hong Kong University Press, pp.121-122 (1988)

Dettori C. and **Meldolesi J.**

Regulation of glucose transport by insulin, bombesin and bradykinin in Swiss 3T3 fibroblasts: involvement of protein kinase C-dependent and -independent mechanisms.

Exp. Cell Res. 182, 267-278 (1989)

Vallar L. and **Meldolesi J.**

Mechanisms of signal transduction at the dopamine D2 receptor.

Trends Pharmacol. Sci. 10, 74-77 (1989)

Pandiella A. and **Meldolesi J.**

Reinforcement of signal generation at B2 bradykinin receptors by insulin, EGF and other growth factors.

J. Biol. Chem. 264, 3122-3130 (1989)

Rosenthal L. and **Meldolesi J.**

α -latrotoxin and related toxins.

Pharmac. Ther. 42, 115-134 (1989)

Ambrosini A. and **Meldolesi J.**

Muscarinic and quisqualate receptor-induced phosphoinositide hydrolysis in primary cultures of striatal and hippocampal neurons. Evidence for differential mechanisms of activation.

J. Neurochem. 53, 825-404 (1989)

Malgaroli A., De Camilli P. and **Meldolesi J.**

Distribution of α -latrotoxin receptor in the rat brain by quantitative autoradiography: comparison with the nerve terminal protein, synapsin I.

Neuroscience 32, 393-404 (1989)

Krause K.H., Pittet D., Volpe P., Pozzan T., **Meldolesi J.** and Lew D.P.

Calciosome, a sarcoplasmic reticulum-like organelle involved in intracellular Ca^{2+} -handling by non-muscle cells: studies in human neutrophils and HL-60 cells.

Cell Calcium 10, 351-561 (1989)

Pandiella A., Beguinot L., Vicentini L.M. and **Meldolesi J.**

Transmembrane signalling at the epidermal growth factor receptor.

Trends Pharmacol. Sci. 10, 411-414 (1989)

Saluja A., Saluja M., Villa A., Leli U., Rutledge P., **Meldolesi J.** and Steer M.

Pancreatic duct obstruction in rabbits causes digestive zymogen and lysosomal enzyme co-localization.

J. Clin. Invest. 84, 1260-1266 (1989)

Pandiella A., Lehvaslaiho H., Magni M., Alitalo K. and **Meldolesi J.**

Activation of an EGFR/neu chimeric receptor: early intracellular signals and cell proliferation responses.

Oncogene 4, 1299-1305 (1989)

Pandiella A. and **Meldolesi J.**

Reinforcement of signal generation at B2 bradykinin receptors by insulin, epidermal growth factors, and other growth factors.
J. Biol. Chem. 264, 3122-3130 (1989)

Vallar L. and **Meldolesi J.**

Mechanisms of signal transduction at the dopamine D2 receptor.
Trends Pharmacol. Sci. 10, 74-77 (1989)

Pandiella A., Magni M. and **Meldolesi J.**

Plasma membrane hyperpolarization and $[Ca^{2+}]_i$ increase induced by fibroblast growth in NIH-3T3 fibroblasts.
Biochem. Biophys. Res. Comm. 163, 1325-1331 (1989)

Janigro D., Maccaferri G. and **Meldolesi J.**

Are undifferentiated PC12 rat pheochromocytoma cells electrically excitable?
Biochem. Biophys. Res. Comm. 163, 810-814 (1989)

Janigro D., Maccaferri G. and **Meldolesi J.**

Calcium channels in undifferentiated PC12 rat pheochromocytoma cells.
FEBS Letters 255, 398-400 (1989)

Malgaroli A., **Meldolesi J.**, Zambonin Zallone A. and Teti A.

Control of cytosolic free calcium in rat and chicken osteoclasts.
J. Biol. Chem. 264, 14342-14347 (1989)

Pandiella A., Magni M., Lovisolo D. and **Meldolesi J.**

The effects of epidermal growth factor on membrane potential.
J. Biol. Chem. 264, 12914-12921 (1989)

Ross C.A., **Meldolesi J.**, Milner T.A., Satoh T., Supattapone S. and Snyder S.H.

Inositol 1,4,5-trisphosphate receptor localized to endoplasmic reticulum in cerebellar Purkinje neurons.

Nature 339, 468-470 (1989)

Meldolesi J., Pandiella A., Vallar L., Madeddu L., Malgaroli A., Fasolato C. and Pozzan T.

Receptors regulating intracellular Ca^{2+} .

In Transmembrane Signaling, Nahorski S.R. eds, John Wiley & Sons - Chichester, pp.157-168 (1989)

Clementi F. and **Meldolesi J.** (eds)

Neurotransmitter release. The neuromuscular junction.

Cell Biology International Reports 13, 981-1199 (1989)

Satoh T., Ross C.A., Villa A., Supattapone S., Pozzan T., Snyder S. and **Meldolesi J.**

The inositol 1,4,5-trisphosphate receptor in cerebellar Purkinje cells: quantitative immunogold labeling reveals concentration in an ER subcompartment.

J. Cell Biol. 111, 615-624 (1990)

McMahon H.T., Rosenthal L., **Meldolesi J.** and Nicholls D.G.

α -latrotoxin releases both vesicular and cytoplasmic glutamate from isolated nerve terminals.
J. Neurochem. 55, 2039-2047 (1990)

Malgaroli A., Fesce R. and **Meldolesi J.**

Spontaneous $[Ca^{2+}]_i$ fluctuations in rat chromaffin cells do not require inositol 1,4,5-trisphosphate elevations but are generated by a caffeine- and ryanodine-sensitive intracellular Ca^{2+} store.

J. Biol. Chem. 265, 3005-3008 (1990)

Meldolesi J., Madeddu L. and Pozzan T.

Intracellular Ca^{2+} storage organelles in non muscle cells: heterogeneity and functional assignment.

Biochim. Biophys. Acta 1055, 130-140 (1990)

Treves S., De Mattei M., Lanfredi M., Villa A., Green M.N., MacLennan, D.H., **Meldolesi J.** and Pozzan T.

Calreticulin is a candidate for a calsequestrin-like function in Ca^{2+} storage compartments (calciosomes) of liver and brain.

Biochem. J. 271, 473-480 (1990)

Vallar L., Muca C., Magni M., Albert P., Bunzow J., **Meldolesi J.** and Civelli O.

Differential coupling of dopaminergic D2 receptors expressed in different cell types.

J. Biol. Chem. 265, 10320-10326 (1990)

Milani D., Malgaroli A., Guidolin D., Fasolato C., Skaper S.D., **Meldolesi J.** and Pozzan T.

Ca^{2+} channels and intracellular Ca^{2+} stores in neuronal and neuroendocrine cells.

Cell Calcium 11, 191-199 (1990)

Clementi E., Malgaretti N., **Meldolesi J.** and Taramelli R.

A new constitutively mutation of the Gs protein a subunit-gsp oncogene is found in human pituitary tumours.

Oncogene 5, 1059-1061 (1990)

Ciardo A. and **Meldolesi J.**

Multiple actions of SC38249: the blocker of both voltage-operated and second messenger-operated Ca^{2+} channels also inhibits Ca^{2+} extrusion.

Europ. J. Pharmacol., Molec. Pharmacol. Section 188, pp. 417-421 (1990)

Volpe P., Pozzan T. and **Meldolesi J.**

Rapidly exchanging Ca^{2+} stores of non-muscle cells.

Semin. in Cell Biology 1, 297-304 (1990)

Rosenthal L., Zucchetti D., Madeddu L. and **Meldolesi J.**

Mode of action of α -latrotoxin: role of divalent cations in Ca^{2+} -dependent and Ca^{2+} -independent effects mediated by the toxin.

Mol. Pharmacol. 38, 917-923 (1990)

Torri Tarelli F., Valtorta F., Villa A. and **Meldolesi J.**

Functional morphology of the nerve terminal at the frog neuromuscular junction: recent insights using immunocytochemistry.

Progr. Brain Res. 84, 83-92 (1990)

Pandiella A., Magni M., Lovisolo D., Peres A. and **Meldolesi J.**

Transmembrane signalling at growth factor receptors. In growth factors: from genes to clinical application.

Raven Press p. 117-128 (1990)

Pandiella A., Magni M., Lovisolo D., Peres A. and **Meldolesi J.**

Transmembrane signalling at growth factor receptors: phosphoinositide hydrolysis, cytosolic Ca^{2+} , and membrane potential.

In Growth Factors, Vicki R.S., Hall K. and Löw H eds., pp. 117-127 (1990)

Ciardo A. and **Meldolesi J.**

Regulation of intracellular calcium in cerebellar granule neurons: effects of depolarization and of glutamatergic and cholinergic stimulation.
J. Neurochem. 56, 184-191 (1991)

Michelangeli F., Di Virgilio F., Villa A., Podini P., **Meldolesi J.** and Pozzan T.
Identification, kinetic properties and intracellular localization of the (Ca²⁺-Mg²⁺)-ATPase from
the intracellular stores of chicken cerebellum.
Biochem. J. 275, 555-561 (1991)

Villa A., Podini P., Clegg D.O., Pozzan T. and **Meldolesi J.**
Intracellular Ca²⁺ stores in chicken Purkinje neurons.
J. Cell Biol. 113, 779-791 (1991)

Magistretti J., Dettori C. and **Meldolesi J.**
Glucose transport stimulation by bradykinin in Swiss 3T3 fibroblasts: a pertussis toxin-
sensitive mechanism operates without involvement of arachidonic acid and cyclic AMP.
Exp. Cell Res. 192, 67-74 (1991)

Magni M., **Meldolesi J.** and Pandiella A.
Ionic events induced by epidermal growth factor: evidence that hyperpolarization and
stimulated cation influx play a role in the stimulation of cell growth.
J. Biol. Chem. 266, 6329-6335 (1991)

Magni M., Pandiella A., Helin K., **Meldolesi J.** and Beguinot L.
Transmembrane signalling at the EGF receptor: positive regulation by the C-terminal
phosphotyrosine residues.
Biochem. J. 277, 305-311 (1991)

Malgaroli A. and **Meldolesi J.**
[Ca²⁺]_i oscillations from internal stores sustain exocytic secretion from the chromaffin cells of
the rat.
FEBS Letters 283, 169-172 (1991)

Meldolesi J.
Control of cytosolic Ca²⁺ concentration in neurons and neurosecretory cells.
In: Fidia Res. Found. Neuroscience Award lectures, ed. Raven Press, New York, Vol. 5 pp.
79-101 (1991)

Meldolesi J. and Magni M.
Lipid metabolites and growth factor action.
Trends Pharmacol. Sci. 12, 362-264 (1991)

Grohovaz F., Zacchetti D., Clementi E., Lorenzon P., **Meldolesi J.** and Fumagalli G.
[Ca²⁺]_i imaging in PC12 cells: multiple response patterns to receptor activation reveal new
aspects of transmembrane signalling.
J. Cell Biol. 113, 1341-1350 (1991)

Meldolesi J., Clementi E., Fasolato C., Zacchetti D. and Pozzan T.
Ca²⁺ influx following receptor activation.
Trends Pharmacol. Sci. 12, 289-292 (1991)

Zacchetti D., Clementi E., Fasolato C., Lorenzon P., Zottini M., Grohovaz F., Fumagalli G.,
Pozzan T. and **Meldolesi J.**
Intracellular Ca²⁺ pools in PC12 cells. A unique, rapidly-exchanging pool is sensitive to both
inositol 1,4,5-trisphosphate and caffeine-ryanodine.
J. Biol. Chem. 266, 20152-20158 (1991)

Fasolato C., Zottini M., Clementi E., Zacchetti D., **Meldolesi J.** and Pozzan T.
Intracellular Ca^{2+} pools in PC12 cells. Three intracellular pools are distinguished by their turnover and mechanisms of Ca^{2+} accumulation, storage and release.
J. Biol. Chem. 266, 20159-20167 (1991)

Volpe P., Villa A., Damiani E., Sharp A.H., Podini P., Snyder S.H. and **Meldolesi J.**
Heterogeneity of microsomal Ca^{2+} stores in chicken Purkinje neurons.
EMBO J. 10, 3183-3189 (1991)

Grohovaz F., Zacchetti D., D'Andrea P., Lorenzon P. and **Meldolesi J.**
[Ca^{2+}]_i effects of bradykinin B2 receptor activation in PC12 cells.
Agents Actions Suppl. 38, 9-15 (1992)

Meldolesi J., Villa A., Podini P., Clementi E., Zacchetti D., D'Andrea P., Lorenzon P. and Grohovaz F.
Intracellular Ca^{2+} stores in neurons. Identification and functional aspects.
J. Physiol. (Paris) 86, 23-30 (1992)

Meldolesi J., Villa A., Volpe P. and Pozzan T.
Cellular sites of IP_3 action.
Adv. Second Messenger Phosphoprotein Res. 26, 187-208 (1992)

Vallar L., Muca C., Civelli O. and **Meldolesi J.**
The D2 receptor: an inhibitory receptor which can trigger stimulatory responses.
Neurochem. Int. 197S-200S (1992)

Clementi E., Scheer H., Zacchetti D., Fasolato C., Pozzan T. and **Meldolesi J.**
Receptor-activated Ca^{2+} influx. Two independently regulated mechanisms of influx stimulation coexist in neurosecretory PC12 cells.
J. Biol. Chem. 267, 2164-2172 (1992)

Meldolesi J.
Multifarious IP_3 receptors.
Current Biology 2, 393-394 (1992)

Volpe P., Villa A., Podini P., Martini A., Nori A., Panzeri M.C. and **Meldolesi J.**
The endoplasmic reticulum-sarcoplasmic reticulum connection: distribution of endoplasmic reticulum markers in the sarcoplasmic reticulum of skeletal muscle fibers.
Proc. Natl. Acad. Sci. USA 89, 6142-6146 (1992)

Villa A., Sharp A.H., Racchetti G., Podini P., Bole D.G., Dunn W.A., Pozzan T., Snyder S.H. and **Meldolesi J.**
The endoplasmic reticulum of Purkinje neuron body and dendrites: molecular identity and specializations for Ca^{2+} transport.
Neuroscience 49, 467-477 (1992)

Meldolesi J., Villa A., Volpe P. and Pozzan T.
Cellular sites of IP_3 action.
In *Advances in Second Messenger and Phosphoprotein Res.*, J.W. Putney Jr. ed., Raven Press, New York, Vol. 26, pp. 187-208 (1992)

Pandiella A. and Meldolesi J.

Phosphoinositide hydrolysis and ensuing calcium and potassium fluxes: role in the action of EGF and other growth factors.

Cell. Physiol. Biochem. 2, 196-212 (1992)

Sitia R. and Meldolesi J.

Endoplasmic reticulum: a dynamic patchwork of specialized subregions.

Mol. Biol. Cell 3, 1067-1072 (1992)

Clementi E., Racchetti G., Zucchetti D., Panzeri M.C. and Meldolesi J.

Differential expression of markers and activities in a group of PC12 nerve cell clones.

Europ. J. Neurosci. 4, 944-953 (1992)

Clementi E., Scheer H., Raichmann M. and Meldolesi J.

ATP-induced Ca^{2+} influx is regulated via a pertussis toxin-sensitive mechanism in a PC12 cell clone.

Biochem. Biophys. Res. Comm. 188, 1184-1190 (1992)

Grohovaz F., Zucchetti D., Lorenzon P., Meldolesi J. and D'Andrea P.

Receptor-mediated intracellular signalling: oscillations and waves of cytosolic calcium.

Biochem. Soc. Trans. 21, 1129-1132 (1993)

D'Andrea P., Zucchetti D., Meldolesi J. and Grohovaz F.

Mechanism of $[\text{Ca}^{2+}]_i$ oscillations in rat chromaffin cells.

J. Biol. Chem. 268, 15213-15220 (1993)

Rusakov D.A., Podini P., Villa A. and Meldolesi J.

Tridimensional organization of Purkinje neuron cisternal stacks, a specialized endoplasmic reticulum subcompartment rich in inositol 1,4,5-trisphosphate receptors.

J. Neurocytol. 22, 273-282 (1993)

Villa A., Podini P., Panzeri M.C., Soling H.D., Volpe P. and Meldolesi J.

The endoplasmic-sarcoplasmic reticulum of smooth muscle: immunocytochemistry of vas deferens fibers reveals specialized subcompartments differently equipped for the control of Ca^{2+} homeostasis.

J. Cell Biol. 121, 1041-1051 (1993)

Ciardo A. and Meldolesi J.

$[\text{Ca}^{2+}]_i$ effects of the HIV-1 envelope glycoprotein, gp120, in cerebellar cultures. Increases in a glial cell subpopulation might be induced by a direct signalling mechanism.

Europ. J. Neurosci. 5, 1711-1718 (1993)

Villa A., Podini P., Nori A., Panzeri M.C., Martini A., Meldolesi J. and Volpe P.

The endoplasmic reticulum-sarcoplasmic connection. II. Postnatal differentiation of the sarcoplasmic reticulum in skeletal muscle fibers.

Exp. Cell Res. 209, 140-148 (1993)

Meldolesi J. and Villa A.

Endoplasmic reticulum and the control of Ca^{2+} homeostasis.

In: Subcellular Biochemistry Vol. 21: Endoplasmic Reticulum. N. Borgese and J.R. Harris eds. Plenum Press, New York Vol.21 pp. 189-207 (1993)

Grohovaz F., Zacchetti D., Lorenzon P., **Meldolesi J.** and D'Andrea P.
Receptor-mediated intracellular signalling: Oscillations and waves of cytosolic calcium.
Biochem. Soc. Trans. 21, 1129-1132 (1993)

Meldolesi J.

Keeping the stores full.
Curr. Biol. 3, 910-912 (1993)

Fesce R., Grohovaz F., Valtorta F. and **Meldolesi J.**
Neurotransmitter release: fusion or kiss-and-run?
Trends in Cell Biol. 4, 1-4 (1994)

Martino G., Clementi E., Brambilla E., Moiola L., Comi G., **Meldolesi J.** and Grimaldi L.M.E.
 α -interferon activates a new Ca^{2+} channel in T-lymphocytes from patients with multiple
sclerosis.
Proc. Natl. Acad. Sci. USA 91, 4825-4829 (1994)

Pozzan T., Rizzuto R., Volpe P. and **Meldolesi J.**
Molecular and cellular physiology of intracellular Ca^{2+} stores.
Physiol. Rev. 74, 595-637 (1994)

Valtorta F. and **Meldolesi J.**
The presynaptic compartment: signals and targets.
Seminars Cell Biol. 5, 211-219 (1994)

Clementi E., Martino G., Grimaldi L.M.E., Brambilla E. and **J. Meldolesi**
Intracellular Ca^{2+} stores of T lymphocytes: changes induced by *in vitro* and *in vivo* activation.
Europ. J. Immunology 24, 1365-1371 (1994)

Papazafiri P., Bossi M. and **Meldolesi J.**
Expression of muscle calsequestrin in epithelial HeLa cells: distribution and functional role.
Biochem. Biophys. Acta 1223, 333-340 (1994)

Volpe P., Martini A., Furlan S. and **Meldolesi J.**
Calsequestrin is a component of smooth muscles: the skeletal and cardiac muscle isoforms are
both present, although in highly variable amounts and ratios.
Biochem J. 301, 465-469 (1994)

Villa A., Podini P., Panzeri M.C., Racchetti G. and **Meldolesi J.**
Cytosolic Ca^{2+} binding proteins during rat brain aging: loss of calbindin and calretinin in the
hippocampus, with no change in the cerebellum.
Europ. J. Neurosci. 6, 1491-1499 (1994)

Fischer G.A., Clementi E., Raichman M., Sudhof T., Ullrich A. and **Meldolesi J.**
Stable expression of truncated inositol 1,4,5-trisphosphate receptor subunits in 3T3
fibroblasts: coordinate signalling changes and differential suppression of cell growth and
transformation.
J. Biol. Chem. 269, 19216-19224 (1994)

Racchetti G., Papazafiri P., Volpe P. and **Meldolesi J.**
Calstorin, a new Ca^{2+} binding protein of the microsome lumen which is abundant in the rat
brain.
Biochem. Biophys. Res. Comm. 203, 823-833 (1994)

D'Andrea P., Codazzi F., Zucchetti D., **Meldolesi J.** and Grohovaz F.
Oscillations of cytosolic calcium in rat chromaffin cells: dual modulation in frequency and amplitude.
Biochem. Biophys. Res. Comm. 205, 1264-1269 (1994)

Meldolesi J.

Survival of Italian biomedical research.
Nature 378, 659-60 (1995)

Papazafiri P., Podini P., **Meldolesi J.** and Yamaguchi T.
Aging affects cytosolic Ca^{2+} binding proteins and synaptic markers in the rat brain retina but not in cerebral cortex neurons.
Neurosci. Letters 186, 65-68 (1995)

Raichmann M., Panzeri M.C., Clementi E., Papazafiri P., Eckley M., Clegg D.O., Villa A. and **Meldolesi J.**
Differential localization and functional role of calsequestrin in growing and differentiated myoblasts.
J. Cell Biol. 128, 341-354 (1995)

Grierson J.P. and **Meldolesi J.**

Shear stress-induced $[\text{Ca}^{2+}]_i$ transients and oscillations in mouse fibroblasts are mediated by endogenously released ATP.
J. Biol. Chem. 270, 4451-4456 (1995)

Clementi E., Martini A., Stefani G., **Meldolesi J.** and Volpe P.
LU52396, an inhibitor of the store-dependent (capacitative) Ca^{2+} influx.
Eur. J. Pharmacol. 289, 23-31 (1995)

Grierson J.P. and **Meldolesi J.**

U-73122, a putative phospholipase C blocker, affects calcium homeostasis in mouse fibroblast cells via multiple mechanisms.
British J. Pharmacol. 115, 11-14 (1995)

Codazzi F., Menegon A., Zucchetti D., Ciardo A., Grohovaz F. and **Meldolesi J.**
HIV-1 gp120 glycoprotein induces $[\text{Ca}^{2+}]_i$ responses not only in type-2 but also in type-1 astrocytes and oligodendrocytes of the rat cerebellum.
Europ. J. Neurosci. 7, 1333-1341 (1995)

Lorenzon P., Zucchetti D., Codazzi F., Fumagalli G., **Meldolesi J.** and Grohovaz F.
 Ca^{2+} waves in PC12 neurites: a bidirectional, receptor oriented form of Ca^{2+} signalling.
J. Cell Biol. 129, 797-804 (1995)

Meldolesi J.

Bringing cell growth research together.
Nature Medicine 1, 512-513 (1995)

Bastianutto C., Clementi E., Codazzi F., Podini P., De Giorgi F., Rizzuto R., **Meldolesi J.** and Pozzan T.
Overexpression of calreticulin increases the Ca^{2+} capacity of rapidly exchanging Ca^{2+} stores and reveals aspects of their luminal microenvironment and function.
J. Cell Biol. 130, 847-855 (1995)

Meldolesi J. and Pozzan T.

IP₃ receptors and secretory granules.

Trends Neurosci. 18, 340-341 (1995)

Clementi E., Sciorati C., Riccio M., Miloso M., **Meldolesi J.** and Nisticò G.

Nitric oxide action on growth factor-elicited signals.

J. Biol. Chem. 270, 22277-22282 (1995)

Meldolesi J.

The cell biology connection.

Curr. Biol. 5, 1006-1008 (1995)

Meldolesi J. and Grohovaz F.

The [Ca²⁺]_i concept: from whole cell to microdomains.

In Signaling mechanisms – from transcription factors to oxidative stress. Packer L. and Wirtz K. eds., 92, 1-10 (1995)

Fesce R., Valtorta F. and **Meldolesi J.**

The membrane fusion machine and neurotransmitter release.

Neurochem. Int. 28, 15-21 (1996)

Grohovaz F., Bossi M., Pezzati R., **Meldolesi J.** and Torri Tarelli F.

High resolution ultrastructural mapping of total calcium: EELS-ESI analysis of a physically/chemically processed nerve muscle preparation.

Proc. Natl. Acad. Sci. USA 93, 4799-4803 (1996)

Clementi E. and **Meldolesi J.**

Pharmacological and functional properties of voltage-independent Ca²⁺ channels.

Cell Calcium 19, 269-279 (1996)

Codazzi F., Racchetti G., Grohovaz F. and **Meldolesi J.**

Transduction signals induced in rat brain cortex astrocytes by the HIV-1 gp120 glycoprotein.

FEBS Letters 384, 135-137 (1996)

Clementi E., Racchetti G., Melino G. and **Meldolesi J.**

Cytosolic Ca²⁺ buffering, a cell property that in some neurons markedly decreases during aging, has protective effect against the NMDA/nitric oxide-induced excitotoxicity.

Life Sci. 59, 389-397 (1996)

Meldolesi J., Krause H. and Michalak M.

Calreticulin: how many functions in how many cellular compartments?

Cell Calcium 20, 83-86 (1996)

Clementi E., Riccio M., Sciorati C., Nisticò G. and **Meldolesi J.**

The type 2 ryanodine receptor of neurosecretory PC12 cells is activated by cyclic ADP ribose: role of the nitric oxide/cGMP pathway.

J. Biol. Chem. 271, 17739-17745 (1996)

Rooney E.K. and **Meldolesi J.**

The endoplasmic reticulum in PC12 cells: a mosaic of domains differently specialised in Ca^{2+} handling.

J. Biol. Chem. 271, 29304-29311 (1996)

Corradi N., Borgonovo B., Clementi E., Bassetti M., Racchetti G., Consalez G.G., Huttner W.B., **Meldolesi J.** and Rosa P.

Overall lack of regulated secretion in a PC12 variant cell clone.

J. Biol. Chem. 271, 27116-27124 (1996)

Pezzati R., Bossi M., Podini P., **Meldolesi J.** and Grohovaz F.

High resolution calcium mapping of the ER-Golgi-exocytic membrane system. Electron energy loss imaging analysis of quick frozen-frozen dried PC12 cells.

Mol. Biol. Cell 8, 1501-1512 (1997)

Vesce S., Bezzi P., Rossi D., **Meldolesi J.** and Volterra A.

HIV-1 gp120 glycoprotein affects the astrocyte control of extracellular glutamate by both inhibiting the uptake and stimulating the release of the amino acid.

FEBS Letters 411, 107-109 (1997)

Malgaroli A. and **Meldolesi J.**

α -Latrotoxin (black widow spider).

In: Guidebook to Protein Toxins and their Use in Cell Biology. R. Rappuoli and C. Montecucco (eds), Oxford Univ. Press, pp. 233-235 (1997)

Gatti G., Podini P. and **Meldolesi J.**

Overexpression of Calsequestrin in L6 Myoblasts: formation of ER subdomains and their evolution into discrete vacuoles where aggregates of the protein are specifically accumulated.

Mol. Biol. Cell 8, 1712-1728 (1997)

Montero M., Alvarez J., Rizzuto R., **Meldolesi J.** and Pozzan T.

Ca^{2+} homeostasis in the endoplasmic reticulum: coexistence of high and low $[\text{Ca}^{2+}]$ subcompartments in intact HeLa cells.

J. Cell Biol. 139, 601-611 (1997)

Clementi E. and **Meldolesi J.**

The cross-talk between nitric oxide and Ca^{2+} : a story with a complex past and promising future.

Trends Pharmacol. Sci. 18, 266-269 (1997)

Sciorati C., Nisticò G., **Meldolesi J.** and Clementi E.

Nitric oxide effects on cell growth: a combination of cGMP-dependent stimulation of the AP-1 transcription complex and cGMP-independent slowing of cell cycling.

Brit. J. Pharmacol. 122, 687-697 (1997)

Lièvremont J.P., Rizzuto R., Hendershot L. and **Meldolesi J.**

Bip, a major chaperone protein of the endoplasmic reticulum lumen, plays a direct and important role in the storage of the rapidly exchanging pool of Ca^{2+} .

J. Biol. Chem. 272, 30873-30879 (1997)

Meldolesi J.

Regulated exocytosis in neurons and neurosecretory cells: structural events and expression competence.
J. Physiol. (Paris) 92, 119-121 (1998)

Meldolesi J. and Pozzan T.
The ER Ca²⁺ store: a view from the lumen.
Trends Biochem. Sci. 23, 10-15 (1998)

Meldolesi J.
Oscillation, activation, expression.
Nature 392, 863-866 (1998)

Meldolesi J. and Pozzan T.
The heterogeneity of ER Ca²⁺ stores has a key role in non-muscle cell signalling and function.
J. Cell Biol. 142, 1395-1398 (1998)

Borgonovo B., Racchetti G., Malosio M.L., Benfante R., Podini P., Rosa P. and **Meldolesi J.**
Neurosecretion competence: an independently regulated trait of the neurosecretory cell phenotype.
J. Biol. Chem. 273, 34683-34686 (1998)

Kasai H., Kishimoto T., Liu T.-T., Miyashita Y., Podini P., Grohovaz F. and **Meldolesi J.**
Multiplicity and diversity of regulated exocytosis in wild-type and defective PC12 cells.
Proc. Natl. Acad. Sci. USA 96, 945-949 (1999)

Fesce R. and **Meldolesi J.**
Peeping at the vesicle kiss.
Nature Cell Biol. 1, E3-E4 (1999)

Rowe J., Corradi N., Malosio M.L., Taverna E., Halban P., **Meldolesi J.** and Rosa P.
Blockade of membrane transport and disassembly of the Golgi complex by expression of syntaxin 1A in neurosecretion-incompetent cells: prevention by rbSec1.
J. Cell Sci. 112, 1865-1877 (1999)

Lièvremont J.P., Sciorati C., Morandi E., Paolucci C., Bunone G., Della Valle G., **Meldolesi J.** and Clementi E.
The p75^{NTR}-induced apoptotic program develops through a ceramide-caspase pathway negatively regulated by nitric oxide.
J. Biol. Chem. 274, 15466-15472 (1999)

Clementi F., Fesce R., **Meldolesi J.** and Valtorta F., eds.
Molecular and cellular aspects of exocytosis.
Phil. Trans. R. Soc. Lond. B 354, 237-416 (1999)

Meldolesi J. and Clementi F.
Bruno Ceccarelli: information about his scientific life and about the association established by his colleagues and friends.
Phil. Trans. R. Soc. Lond. B. Biol. Sci. 354, 239-241 (1999)

Malosio M.L., Benfante R., Racchetti G., Borgonovo B., Rosa P. and **Meldolesi J.**

Neurosecretory cells without neurosecretion: evidence of an independently regulated trait of the cell phenotype.
J. Physiol. (London) 520, 43-52 (1999)

Barsacchi R., Heider H., Girault J.-A. and Meldolesi J.

Requirement of Pyk2 for the activation of the MAP kinase cascade induced by Ca^{2+} (but not by PKC or G protein) in PC12 cells.
FEBS Letters 461, 273-276 (1999)

De Nadai C., Sestili P., Cantoni O., Lièvremont J.P., Sciorati C., Barsacchi R., Moncada S., Meldolesi J. and Clementi E.

Nitric oxide inhibits tumor necrosis factor α -induced apoptosis by reducing the generation of ceramide.

Proc. Natl. Acad. Sci. U.S.A. 97, 5480-5485 (2000)

Meldolesi J., Sciorati C. and Clementi E.

The p75 receptor: first insights into the transduction mechanisms leading to either cell death or survival.

Trends Pharmacol. Sci. 21, 242-243 (2000)

Meldolesi J. and Role L. (eds)

Signal transduction in the nervous system.

Curr. Op. in Neurobiol. 11, 259-394 (2001)

Bezzi P., Domercq M., Brambilla L., Galli R., Schols D., De Clercq E., Vescovi A., Bagetta G., Koliias G., Meldolesi J. and Volterra A.

A chemokine-activated, TNF α -dependent glutamate release cascade of astrocytes triggers neurotoxicity in the presence of reactive microglia.

Nature Neurosci. 4, 702-710 (2001)

Meldolesi J. and Grohovaz F.

Total calcium ultrastructure: advances in excitable cells.

Cell Calcium 30, 1-8 (2001)

Valtorta F., Meldolesi J. and Fesce R.

Synaptic vesicles: is kissing a matter of competence?

Trends Cell Biol. 11, 324-328 (2001)

Meldolesi J.

Rapidly exchanging Ca^{2+} stores in neurons: molecular, structural and functional properties.

Progress Neurobiol. 65, 309-338 (2001)

Gatti G., Trifari S., Mesaeli N., Parker R. J.M., Michalak M. and Meldolesi J.

Head-to-tail oligomerization of calsequestrin: a novel mechanism for heterogeneous distribution of ER luminal proteins.

J. Cell Biol. 154, 1-11 (2001)

Fesce R., Valtorta F. and Meldolesi J.

Regulation of kiss-and-run exocytosis.

Trends Cell Biol. 11, 405 (2001)

Meldolesi J., Gatti G. and Grohovaz F.

Role of Ca^{2+} in the regulation of energy metabolism in neurons and nerve cells.

In Neuroenergetics: relevance for functional brain imaging. Frackowiak R.S.J, Magistretti P.J., Shulman R.G., Altman J.S., Adams M. eds.

HFSP Workshop XI, 107-117 (2001)

Pezzati R., **Meldolesi J.** and Grohovaz F.

Ultra rapid calcium events in electrically stimulated frog nerve terminals.

Biochem. Biophys. Res. Comm. 285, 724-727 (2001)

Meldolesi J.

*Rapidly exchanging Ca^{2+} stores: ubiquitous partners of surface channels in neurons.

News Physiol. Sci. 17: 144-149 (2002)

*Borgonovo B., Cocucci E., Racchetti G., Podini P., Bachi A. and **Meldolesi J.**

Regulated exocytosis: a novel, widely expressed system.

Nature Cell Biol., 4: 955-962 (2002)

*Grundschober C., Malosio M.L., Astolfi L., Giordano T., Nef P. and **Meldolesi J.** Neurosecretion competence. A comprehensive gene expression program identified in PC12 cells.

J. Biol. Chem., 277: 36715-36724 (2002)

*Clementi E., Borgese N. and **Meldolesi J.**

Interaction between nitric oxide and sphingolipids and the potential consequences in physiology and pathology

Trends Pharmacol. Sci., 24: 518-523 (2003)

*Malosio M.L., Giordano T., Laslop A. and **Meldolesi J.**

Dense-Core Granules: a Specific Hallmark of the Neuronal/Neurosecretory cell Phenotype

J. Cell Sci., 117: 743-749 (2004)

***Meldolesi J.**, Chieregatti E. and Malosio M.L.

Requirements for the identification of dense-core granules

Trends Cell Biol., 14: 13-19 (2004)

***Meldolesi J.** and Chieregatti E.

Fusion has found its calcium sensor.

Nat. Cell Biol., 6: 476-478 (2004)

***Meldolesi J.**

The development of Ca^{2+} indicators: a breakthrough in pharmacological research.

Trends Pharmacol. Sci., 25: 172-174 (2004)

*Cerny J., Feng Y., Yu A., Miyake K., Borgonovo B., Klumperman J., **Meldolesi J.**, McNeil P.L. and Kirchhausen T.

The small chemical vacuolin-1 inhibits Ca^{2+} -dependent lysosomal exocytosis but not cell resealing.

EMBO Rep., 5: 883-888 (2004)

*Sessa G., Podini P., Mariani M., Meroni A., Spreafico R., Panina P., Sinigaglia F., Colonna M.

and **Meldolesi J.**

Distribution and signalling of TREM2/DAP12, the receptor system mutated in the human PLOSSL dementia
Eur. J. Neurosci. 20: 2617-2628 (2004)

*Cocucci E., Racchetti G., Podini P., Rupnik M. and **Meldolesi J.**

Enlargeosome, an exocytic vesicle resistant to non-ionic detergents, undergoes endocytosis via a non-acidic route.
Mol. Biol. Cell, 15: 5356-5368 (2004)

*Chieregatti E. and **Meldolesi J.**

Regulated exocytosis: new organelles for non-secretory purposes.
Nature Rev. Mol. Cell. Biol., 6: 181-187 (2005)

*Sala C., Roussignol G., **Meldolesi J.** and Fagni L.

Key role of the postsynaptic density scaffold proteins Shank and Homer in the functional architecture of Ca^{2+} homeostasis at dendritic spines in hippocampal neurons.
J. Neurosci., 25: 4587-4592 (2005)

*Volterra A. and **Meldolesi J.**

Astrocytes, from brain glue to communication elements: the revolution.
Nat. Rev. Neurosci., 6: 626-640 (2005)

*Volterra A. and **Meldolesi J.**

Quantal release of transmitter: not only from neurone but from astrocytes as well?
In Neuroglia, H. Kettenmann and B.R. Ransom eds, Oxford University Press, 190-201 (2005)

*Lorusso A., Covino C., Priori G., Bachi A., **Meldolesi J.** and Chieregatti E.

Annexin2 coating the surface of enlargeosomes is needed for their regulated exocytosis.
EMBO J., 25: 5443-5456 (2006)

Prada I., Ongania G.N., Buonsanti C., Panina-Bordignon P. and **Meldolesi J.**

Triggering receptor expressed in myeloid cells 2 (TREM2) trafficking in microglial cells: continuous shuttling to and from the plasma membrane regulated by cell stimulation.
Neuroscience, 140: 1139-1148 (2006)

*Falcone S., Cocucci E., Podini P., Kirchhausen T., Clementi E. and **Meldolesi J.**

Macropinocytosis: regulated coordination of endocytic and exocytic membrane traffic events.
J. Cell Sci., 119: 4758-4769 (2006)

*Cocucci E., Lorusso A., Ongania G.N., Klajn A. and **Meldolesi J.**

Non-secretory exocytoses in the brain.
J. Physiol. (Paris), 99: 140-145 (2006)

*Prada I., Cocucci E., Racchetti G. and **Meldolesi J.**

The Ca^{2+} -dependent exocytosis of enlargeosomes is greatly reinforced by genistein via a non-tyrosine kinase-dependent mechanism.
FEBS Lett., 581: 4932-4936 (2007)

*Zacchetti D., Chieregatti E., Bettegazzi B., Mihailovich M., Sousa V.L., Grohovaz F. and **Meldolesi J.**

BACE1 expression and activity: relevance in Alzheimer's disease. □
Neurodegen. Dis., 4: 117-126 (2007)

*Cocucci E., Racchetti G., Podini P. and **Meldolesi J.**

Enlargeosome traffic: exocytosis triggered by various signals is followed by endocytosis, membrane shedding or both.
Traffic, 8: 742-757 (2007)

*Giordano T., Brigatti C., Podini P., Bonifacio E., **Meldolesi J.** and Malosio M.L.

Beta cell chromogranin B is partially segregated in distinct granules and can be released separately from insulin in response to stimulation.

Diabetologia, 51: 997-1007 (2008)

*D'Alessandro R., Klajn A., Stucchi L., Podini P., Malosio M.L. and **Meldolesi J.**

Expression of the neurosecretory process in PC12 cells is governed by REST.
J. Neurochem., 105,:1369-1383 (2008)

Meldolesi J.

inhibition of adipogenesis: a new job for the ER Ca²⁺ pool

J. Cell. Biol., 182: 11-13 (2008)

*Cocucci E., Racchetti G., Rupnik M. and **Meldolesi J.**

The regulated exocytosis of enlargeosomes is mediated by a SNARE machinery that includes VAMP4.

J. Cell Sci., 121: 2983-2991(2008)

*Cocucci E., Racchetti G. and **Meldolesi J.**

Shedding microvesicles: artefacts no more.

Trends Cell Biol., 19: 43-51 (2009)

D'Alessandro R., Klajn A. and **Meldolesi J.**

Expression of dense-core vesicles and of their exocytosis are governed by the repressive transcription factor, NRSF/REST.

Ann. N. Y. Acad. Sci., 1152:194-200 (2009)

Klajn A., Ferrai C., Stucchi L., Prada I., Podini P., Baba T., Rocchi M., **Meldolesi J.** and D'Alessandro R.

The REST repression of the neurosecretory phenotype is negatively modulated by BHC80, a protein of the BRAF/HDAC complex.
J.Neurosci., 29: 6296-6307 (2009).

*Stefano l.; Racchetti G., Bianco F., Passini N., Gupta R., Panina Bordignon P. and **Meldolesi J.**

The surface-exposed chaperon Hsp60 is an agonist of microglial TREM2 receptor.
J.Neurochem., 110: 284-294 (2009).

Sousa V., Bellani S., Gianandrea M., Yousuf M., Valtorta F., **Meldolesi J.**, and Chieregatti E. α-Synuclein and its A30P mutant affect the actin cytoskeleton structure and dynamics.
Mol.Biol.Cell, 20: 3725-3739 (2009).

Racchetti G., Lorusso A., Schulte C., Gavello D., Carabelli V., D'Alessandro R. and **Meldolesi** J. Rapid neurite outgrowth in neurosecretory cells and neurons is sustained by the exocytosis of a cytoplasmic organelle, the enlargesosome. *J. Cell Sci.* 123: 165-170 (2010)