Francesca Grassi

List of Publications by Year
in descending order

83 papers	2,098 citations	236925 25 h-index	254184 43 g-index
83 all docs	83 docs citations	83 times ranked	2040 citing authors

#	Article	IF	Citations
1	Tumor necrosis factor alters synaptic transmission in rat hippocampal slices. Neuroscience Letters, 1992, 146, 176-178.	2.1	282
2	Voltage-dependent GABA-induced modulation of calcium currents in chick sensory neurons. Neuroscience Letters, 1989, 105, 113-119.	2.1	164
3	Neuromuscular Junction Disassembly and Muscle Fatigue in Mice Lacking Neurotrophin-4. Molecular and Cellular Neurosciences, 2001, 18, 56-67.	2.2	92
4	Amyloid Â1-42 peptide alters the gating of human and mouse Â-bungarotoxin-sensitive nicotinic receptors. Journal of Physiology, 2003, 547, 147-157.	2.9	81
5	The neuronal Î±6subunit forms functional heteromeric acetylcholine receptors in human transfected cells. European Journal of Neuroscience, 1998, 10, 172-178.	2.6	65
6	TNF-Î± increases the frequency of spontaneous miniature synaptic currents in cultured rat hippocampal neurons. Brain Research, 1994, 659, 226-230.	2.2	60
7	Interferon inhibits synaptic potentiation in rat hippocampus. Brain Research, 1991, 564, 245-248.	2.2	53
8	Acetylcholine may regulate its own nicotinic receptor-channel through the C-kinase system. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1987, 230, 355-365.	1.8	52
9	Î±5 Subunit forms functional Î±3Î²4Î±5 nAChRs in transfected human cells. NeuroReport, 1997, 8, 2433-2436.	1.2	52
10	Acetylcholine receptor channels are present in undifferentiated satellite cells but not in embryonic myoblasts in culture. Developmental Biology, 1987, 123, 43-50.	2.0	48
11	The human adult subtype ACh receptor channel has high Ca2+permeability and predisposes to endplate Ca2+overloading. Journal of Physiology, 2006, 573, 35-43.	2.9	48
12	Microwave effects on acetylcholine-induced channels in cultured chick myotubes. Bioelectromagnetics, 1988, 9, 363-372.	1.6	47
13	Rare missense variants of neuronal nicotinic acetylcholine receptor altering receptor function are associated with sporadic amyotrophic lateral sclerosis. Human Molecular Genetics, 2009, 18, 3997-4006.	2.9	42
14	Electrophysiological properties of mouse bone marrow c-kit cells co-cultured onto neonatal cardiac myocytes. Cardiovascular Research, 2005, 66, 482-492.	3.8	41
15	Physiological characterization of human muscle acetylcholine receptors from ALS patients. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20184-20188.	7.1	40
16	Blockage of nicotinic acetylcholine receptors by 5-hydroxytryptamine. Journal of Neuroscience Research, 1993, 34, 562-570.	2.9	37
17	Functional Properties of Neuronal Nicotinic Acetylcholine Receptor Channels Expressed in Transfected Human Cells. European Journal of Neuroscience, 1997, 9, 480-488.	2.6	35
18	Activation of the nicotinic acetylcholine receptor mobilizes calcium from caffeine-insensitive stores in C2C12 mouse myotubes. Pflugers Archiv European Journal of Physiology, 1993, 422, 591-598.	2.8	34

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19	Acetylcholine induces voltage-independent increase of cytosolic calcium in mouse myotubes.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 10069-10073.	7.1	31
20	Considering patient clinical history impacts performance of machine learning models in predicting course of multiple sclerosis. PLoS ONE, 2020, 15, e0230219.	2.5	30
21	Putative second messengers affect cell coupling in the seminiferous tubules. Cell Biology International Reports, 1986, 10, 631-639.	0.6	27
22	Acetylcholine regulation of nicotinic receptor channels through a putative G protein in chick myotubes.. Journal of Physiology, 1987, 393, 635-645.	2.9	27
23	Effects of calcitonin gene-related peptide on synaptic acetylcholine receptor-channels in rat muscle fibres. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1988, 234, 333-342.	1.8	27
24	An Î±7 Nicotinic Acetylcholine Receptor Gain-of-Function Mutant That Retains Pharmacological Fidelity. Molecular Pharmacology, 2005, 68, 1863-1876.	2.3	27
25	Two forms of acetylcholine receptor gamma subunit in mouse muscle.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 2686-2690.	7.1	26
26	Collaboration between a human group and artificial intelligence can improve prediction of multiple sclerosis course: a proof-of-principle study. F1000Research, 2017, 6, 2172.	1.6	26
27	A Single Point Mutation Confers Properties of the Muscle-Type Nicotinic Acetylcholine Receptor to Homomeric Î±7 Receptors. Molecular Pharmacology, 2004, 66, 169-177.	2.3	25
28	Functional properties of neurons derived from fetal mouse neurospheres are compatible with those of neuronal precursors in vivo. Journal of Neuroscience Research, 2006, 83, 1494-1501.	2.9	24
29	Acetylcholine receptor channel properties in rat myotubes exposed to forskolin. Biochemical and Biophysical Research Communications, 1987, 147, 1000-1007.	2.1	23
30	Pathogenic point mutations in a transmembrane domain of the Îµ subunit increase the Ca2+permeability of the human endplate ACh receptor. Journal of Physiology, 2007, 579, 671-677.	2.9	23
31	Clâ^{ˆ’}-mediated interaction between GABA and glycine currents in cultured rat hippocampal neurons. Brain Research, 1992, 594, 115-123.	2.2	22
32	Zinc permeates mouse muscle ACh receptor channels expressed in BOSC 23 cells and affects channel function. Journal of Physiology, 2000, 529, 83-91.	2.9	21
33	Collaboration between a human group and artificial intelligence can improve prediction of multiple sclerosis course: a proof-of-principle study. F1000Research, 2017, 6, 2172.	1.6	21
34	Machine Learning Use for Prognostic Purposes in Multiple Sclerosis. Life, 2021, 11, 122.	2.4	21
35	Postsynaptic effects of the phorbol ester TPA on frog end-plates. Pflugers Archiv European Journal of Physiology, 1986, 407, 409-413.	2.8	20
36	Identification of a Determinant of Acetylcholine Receptor Gating Kinetics in the Extracellular Portion of the Î³ Subunit. European Journal of Neuroscience, 1996, 8, 2564-2570.	2.6	20

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37	A Mechanistic, Stochastic Model Helps Understand Multiple Sclerosis Course and Pathogenesis. International Journal of Genomics, 2013, 2013, 1-10.	1.6	19
38	Kv1.3 activity perturbs the homeostatic properties of astrocytes in glioma. Scientific Reports, 2018, 8, 7654.	3.3	19
39	Noise Enhances Action Potential Generation in Mouse Sensory Neurons via Stochastic Resonance. PLoS ONE, 2016, 11, e0160950.	2.5	19
40	Adenosine A2A receptor induces protein kinase Aâ€dependent functional modulation of human Î±3Î²4 nicotinic receptor. Journal of Physiology, 2011, 589, 2755-2766.	2.9	18
41	Ca2+-activated K+ channels modulate microglia affecting motor neuron survival in hSOD1G93A mice. Brain, Behavior, and Immunity, 2018, 73, 584-595.	4.1	18
42	Riluzole blocks human muscle acetylcholine receptors. Journal of Physiology, 2012, 590, 2519-2528.	2.9	16
43	Cyclic AMP regulates the life time of acetylcholine-activated channels in cultured myotubes. Biochemical and Biophysical Research Communications, 1986, 140, 243-249.	2.1	15
44	Tunicamycin increases desensitization of acetylcholine receptors in cultured mouse muscle cells.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1808-1811.	7.1	15
45	The desensitization of the embryonic mouse muscle acetylcholine receptor depends on the cellular environment. Pflugers Archiv European Journal of Physiology, 1995, 430, 787-794.	2.8	14
46	Fusion-independent expression of functional ACh receptors in mouse mesoangioblast stem cells contacting muscle cells. Journal of Physiology, 2004, 560, 479-489.	2.9	14
47	Acetylcholine-activated inward current induces cytosolic Ca2+ mobilization in mouse C2C12 myotubes. Cell Calcium, 1995, 18, 41-50.	2.4	13
48	Ca2+ signalling pathways activated by acetylcholine in mouse C2C12 myotubes. Pflugers Archiv European Journal of Physiology, 1994, 428, 340-345.	2.8	12
49	Functional properties of cells obtained from human cord blood CD34⁺ stem cells and mouse cardiac myocytes in coculture. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H1541-H1549.	3.2	12
50	Calcium influx through muscle nAChR-channels: One route, multiple roles. Neuroscience, 2020, 439, 117-124.	2.3	12
51	Cholinergic responses in cloned human TE671/RD tumour cells. Pflugers Archiv European Journal of Physiology, 1993, 425, 117-125.	2.8	11
52	Modulation of fetal and adult acetylcholine receptors by Ca2+ and Mg2+ at developing mouse end-plates. Pflugers Archiv European Journal of Physiology, 2000, 440, 704-709.	2.8	11
53	Cell-to-cell communication in cultured Sertoli cells. Pflugers Archiv European Journal of Physiology, 1985, 404, 382-384.	2.8	10
54	Erythropoietin: a new tool for muscle disorders?. Medical Hypotheses, 2004, 63, 73-75.	1.5	10

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55	Modulation of the Ca2+ permeability of human endplate acetylcholine receptor-channel. Cell Calcium, 2011, 49, 272-278.	2.4	10
56	Noise in multiple sclerosis: unwanted and necessary. Annals of Clinical and Translational Neurology, 2014, 1, 502-511.	3.7	10
57	Mechanism of verapamil action on wildâ€type and slowâ€channel mutant human muscle acetylcholine receptor. Journal of Neurochemistry, 2010, 114, 1231-1240.	3.9	9
58	Partial Block by Riluzole of Muscle Sodium Channels in Myotubes from Amyotrophic Lateral Sclerosis Patients. Neurology Research International, 2014, 2014, 1-7.	1.3	9
59	Reduced acetylcholine-induced channel activity in dystrophic mouse myotubes. Journal of the Neurological Sciences, 1988, 84, 77-86.	0.6	8
60	Protein kinase C modulates exogenous acetylcholine current inXenopus oocytes. Journal of Neuroscience Research, 1995, 41, 443-451.	2.9	8
61	The open duration of fetal ACh receptor-channel changes during mouse muscle development. Journal of Physiology, 1998, 508, 393-400.	2.9	8
62	5-Hydroxytryptamine blocks the fetal more potently than the adult mouse muscle acetylcholine receptor. Pflugers Archiv European Journal of Physiology, 1999, 437, 903-909.	2.8	8
63	Mutant human Î²4 subunit identified in amyotrophic lateral sclerosis patients impairs nicotinic receptor function. Pflugers Archiv European Journal of Physiology, 2011, 461, 225-233.	2.8	8
64	Fluoxetine prevents acetylcholine-induced excitotoxicity blocking human endplate acetylcholine receptor. Muscle and Nerve, 2014, 49, 90-97.	2.2	8
65	Contribution of Genome-Wide Association Studies to Scientific Research: A Pragmatic Approach to Evaluate Their Impact. PLoS ONE, 2013, 8, e71198.	2.5	7
66	Denervation-related changes in acetylcholine receptor density and distribution in the rat flexor digitorum sublimis muscle. Italian Journal of Anatomy and Embryology, 2008, 113, 209-16.	0.1	7
67	A single-agent extension of the SIR model describes the impact of mobility restrictions on the COVID-19 epidemic. Scientific Reports, 2021, 11, 24467.	3.3	7
68	Regulation of muscle acetylcholine receptor-channel function by interferon. Pflugers Archiv European Journal of Physiology, 1989, 415, 150-155.	2.8	5
69	Insulin-like growth factor-1 inhibits STS-induced cell death and increases functional recovery of in vitro differentiated neurons. Cell Cycle, 2008, 7, 3869-3877.	2.6	4
70	Single acetylcholine-activated channels in cultured rhabdomyoblasts. Experimental Cell Research, 1987, 171, 498-502.	2.6	3
71	Acetylcholine-activated currents in quail myotubes expressing viral oncogenes. Cellular Signalling, 1990, 2, 557-562.	3.6	2
72	Green fluorescent protein incorporation by mouse myoblasts may yield false evidence of myogenic differentiation of human haematopoietic stem cells. Acta Physiologica, 2008, 193, 249-256.	3.8	2

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73	Muscle Damage in Dystrophic mdx Mice Is Influenced by the Activity of Ca2+-Activated KCa3.1 Channels. Life, 2022, 12, 538.	2.4	2
74	Spontaneous channel activity induced by tumor promoter TPA in chick myotubes. Naunyn-Schmiedeberg's Archives of Pharmacology, 1988, 338, 121-4.	3.0	1
75	Functional Changes Of Fetal Muscle Acetylcholine Receptor During Mouse Development. Physiology, 1998, 13, 247-251.	3.1	0
76	About a new method to measure fractional Ca2+ currents through ligand-gated ion channels. Journal of General Physiology, 2009, 134, 259-261.	1.9	0
77	Fabrizio Eusebi (1945â€“2009). Journal of Neuroimmunology, 2010, 224, 114-115.	2.3	0
78	Nicotinic AChR in Congenital Myasthenic Syndromes. , 2014, , 695-711.		0
79	Report and Abstracts of the 18th Meeting of the Interuniversity Institute of Myology: Virtual meeting, October 21-24, 2021. European Journal of Translational Myology, 2021, 31, .	1.7	0
80	Title is missing!. , 2020, 15, e0230219.		0
81	Title is missing!. , 2020, 15, e0230219.		0
82	Title is missing!. , 2020, 15, e0230219.		0
83	Title is missing!. , 2020, 15, e0230219.		0