

Robert Zorec

List of Publications by Year in descending order

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259
papers

11,207
citations

38742

50
h-index

42399

92
g-index

265
all docs

265
docs citations

265
times ranked

10502
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021, 24, 312-325.	14.8	1,098
2	Glial cells in (patho)physiology. <i>Journal of Neurochemistry</i> , 2012, 121, 4-27.	3.9	460
3	Astrocytes in physiological aging and Alzheimer's disease. <i>Neuroscience</i> , 2016, 323, 170-182.	2.3	331
4	Gliotransmission: Exocytotic release from astrocytes. <i>Brain Research Reviews</i> , 2010, 63, 83-92.	9.0	329
5	Astrocytes as secretory cells of the central nervous system: idiosyncrasies of vesicular secretion. <i>EMBO Journal</i> , 2016, 35, 239-257.	7.8	318
6	Neuroinfection may contribute to pathophysiology and clinical manifestations of COVID-19. <i>Acta Physiologica</i> , 2020, 229, e13473.	3.8	283
7	Astroglial Excitability and Gliotransmission: An Appraisal of Ca ²⁺ as a Signalling Route. <i>ASN Neuro</i> , 2012, 4, AN20110061.	2.7	240
8	Exocytotic Release of ATP from Cultured Astrocytes. <i>Journal of Biological Chemistry</i> , 2007, 282, 28749-28758.	3.4	225
9	Fusion-related Release of Glutamate from Astrocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 12724-12733.	3.4	219
10	Inhibition of Rab3B expression attenuates Ca ²⁺ -dependent exocytosis in rat anterior pituitary cells. <i>Nature</i> , 1993, 364, 540-544.	27.8	205
11	PKH26 labeling of extracellular vesicles: Characterization and cellular internalization of contaminating PKH26 nanoparticles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1350-1361.	2.6	198
12	Challenges with advanced therapy medicinal products and how to meet them. <i>Nature Reviews Drug Discovery</i> , 2010, 9, 195-201.	46.4	191
13	Stratification of astrocytes in healthy and diseased brain. <i>Brain Pathology</i> , 2017, 27, 629-644.	4.1	180
14	Properties of Ca ²⁺ -dependent exocytosis in cultured astrocytes. <i>Glia</i> , 2004, 46, 437-445.	4.9	164
15	Cytoskeleton and Vesicle Mobility in Astrocytes. <i>Traffic</i> , 2007, 8, 12-20.	2.7	147
16	Sphingosine Facilitates SNARE Complex Assembly and Activates Synaptic Vesicle Exocytosis. <i>Neuron</i> , 2009, 62, 683-694.	8.1	136
17	Astrocytes Negatively Regulate Neurogenesis Through the Jagged1-Mediated Notch Pathway. <i>Stem Cells</i> , 2012, 30, 2320-2329.	3.2	123
18	Astroglia dynamics in ageing and Alzheimer's disease. <i>Current Opinion in Pharmacology</i> , 2016, 26, 74-79.	3.5	116

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19	Calcium-Dependent Exocytosis of Atrial Natriuretic Peptide from Astrocytes. <i>Journal of Neuroscience</i> , 2003, 23, 1580-1583.	3.6	111
20	Subnanometer Fusion Pores in Spontaneous Exocytosis of Peptidergic Vesicles. <i>Journal of Neuroscience</i> , 2007, 27, 4737-4746.	3.6	106
21	IFN- γ -induced increase in the mobility of MHC class II compartments in astrocytes depends on intermediate filaments. <i>Journal of Neuroinflammation</i> , 2012, 9, 144.	7.2	95
22	Astroglial atrophy in Alzheimer's disease. <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 1247-1261.	2.8	95
23	Increased cytosolic calcium stimulates exocytosis in bovine lactotrophs. Direct evidence from changes in membrane capacitance. <i>Journal of General Physiology</i> , 1991, 97, 473-497.	1.9	94
24	Cytoplasmic calcium stimulates exocytosis in a plant secretory cell. <i>Biophysical Journal</i> , 1992, 63, 864-867.	0.5	92
25	Rapid regulated dense-core vesicle exocytosis requires the CAPS protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5627-5632.	7.1	82
26	Vesicle mobility studied in cultured astrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 678-683.	2.1	82
27	Intermediate filaments attenuate stimulation-dependent mobility of endosomes/lysosomes in astrocytes. <i>Glia</i> , 2010, 58, 1208-1219.	4.9	82
28	Defining pathways of loss and secretion of chemical messengers from astrocytes. <i>Glia</i> , 2004, 47, 233-240.	4.9	77
29	Dynamics of IP_3 -dependent signaling and morphological changes in cultured astrocytes. <i>Glia</i> , 2014, 62, 566-579.	4.9	77
30	Ca ²⁺ -dependent mobility of vesicles capturing anti-VGLUT1 antibodies. <i>Experimental Cell Research</i> , 2007, 313, 3809-3818.	2.6	67
31	Munc18-1 Tuning of Vesicle Merger and Fusion Pore Properties. <i>Journal of Neuroscience</i> , 2011, 31, 9055-9066.	3.6	67
32	Astrocyte swelling leads to membrane unfolding, not membrane insertion. <i>Journal of Neurochemistry</i> , 2006, 99, 514-523.	3.9	66
33	Physiology of Astroglia. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1175, 45-91.	1.6	65
34	Slow spontaneous secretion from single large dense-core vesicles monitored in neuroendocrine cells. <i>FASEB Journal</i> , 2004, 18, 1270-1272.	0.5	64
35	Fusion pore stability of peptidergic vesicles. <i>Molecular Membrane Biology</i> , 2010, 27, 65-80.	2.0	64
36	Astrocytes in heavy metal neurotoxicity and neurodegeneration. <i>Brain Research</i> , 2021, 1752, 147234.	2.2	64

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37	Metabolic Plasticity of Astrocytes and Aging of the Brain. <i>International Journal of Molecular Sciences</i> , 2019, 20, 941.	4.1	62
38	Regulation of AQP4 surface expression via vesicle mobility in astrocytes. <i>Glia</i> , 2013, 61, 917-928.	4.9	61
39	Memory Formation Shaped by Astroglia. <i>Frontiers in Integrative Neuroscience</i> , 2015, 9, 56.	2.1	61
40	Rab3 proteins: key players in the control of exocytosis. <i>Trends in Neurosciences</i> , 1994, 17, 426-432.	8.6	60
41	Astroglia in Alzheimer's Disease. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1175, 273-324.	1.6	59
42	Properties of Exocytotic Response in Vertebrate Photoreceptors. <i>Journal of Neurophysiology</i> , 2003, 90, 218-225.	1.8	58
43	Enhancement of Astroglial Aerobic Glycolysis by Extracellular Lactate-Mediated Increase in cAMP. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 148.	2.9	57
44	Regulated exocytosis in astrocytic signal integration. <i>Neurochemistry International</i> , 2010, 57, 451-459.	3.8	56
45	High-resolution membrane capacitance measurements for the study of exocytosis and endocytosis. <i>Nature Protocols</i> , 2013, 8, 1169-1183.	12.0	56
46	Excitable Astrocytes: Ca ²⁺ - and cAMP-Regulated Exocytosis. <i>Neurochemical Research</i> , 2015, 40, 2414-2424.	3.3	56
47	Cell-attached measurements of attofarad capacitance steps in rat melanotrophs. <i>Pflugers Archiv European Journal of Physiology</i> , 1997, 434, 212-214.	2.8	55
48	Stimulation inhibits the mobility of recycling peptidergic vesicles in astrocytes. <i>Glia</i> , 2008, 56, 135-144.	4.9	55
49	Dynamic monitoring of cytosolic glucose in single astrocytes. <i>Glia</i> , 2011, 59, 903-913.	4.9	55
50	Enteric glia regulate gut motility in health and disease. <i>Brain Research Bulletin</i> , 2018, 136, 109-117.	3.0	55
51	Astrocytes in Flavivirus Infections. <i>International Journal of Molecular Sciences</i> , 2019, 20, 691.	4.1	54
52	Exocytosis in Astrocytes: Transmitter Release and Membrane Signal Regulation. <i>Neurochemical Research</i> , 2012, 37, 2351-2363.	3.3	53
53	Expression of familial Alzheimer disease presenilin 1 gene attenuates vesicle traffic and reduces peptide secretion in cultured astrocytes devoid of pathologic tissue environment. <i>Glia</i> , 2016, 64, 317-329.	4.9	53
54	Dominant negative SNARE peptides stabilize the fusion pore in a narrow, release-unproductive state. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3719-3731.	5.4	53

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55	Tick-Borne Encephalitis Virus Infects Rat Astrocytes but Does Not Affect Their Viability. PLoS ONE, 2014, 9, e86219.	2.5	52
56	Astrocytic vesicles and gliotransmitters: Slowness of vesicular release and synaptobrevin2-laden vesicle nanoarchitecture. Neuroscience, 2016, 323, 67-75.	2.3	51
57	Cytosolic chloride ions stimulate Ca ²⁺ -induced exocytosis in melanotrophs. FEBS Letters, 1992, 303, 221-223.	2.8	50
58	Astrocyte Aquaporin Dynamics in Health and Disease. International Journal of Molecular Sciences, 2016, 17, 1121.	4.1	50
59	Astrocytes with TDP-43 inclusions exhibit reduced noradrenergic cAMP and Ca ²⁺ signaling and dysregulated cell metabolism. Scientific Reports, 2020, 10, 6003.	3.3	50
60	Astrocytic Vesicle Mobility in Health and Disease. International Journal of Molecular Sciences, 2013, 14, 11238-11258.	4.1	48
61	Physiology of Astroglial Excitability. Function, 2020, 1, zqaa016.	2.3	48
62	Electrophysiological Study of Hormone Secretion by Single Adenohypophyseal Cells. Methods in Neurosciences, 1991, 4, 194-210.	0.5	47
63	Adrenergic stimulation of single rat astrocytes results in distinct temporal changes in intracellular Ca ²⁺ and cAMP-dependent PKA responses. Cell Calcium, 2016, 59, 156-163.	2.4	47
64	Insulin and Insulin-like Growth Factor 1 (IGF-1) Modulate Cytoplasmic Glucose and Glycogen Levels but Not Glucose Transport across the Membrane in Astrocytes. Journal of Biological Chemistry, 2015, 290, 11167-11176.	3.4	46
65	Ketamine Inhibits ATP-Evoked Exocytotic Release of Brain-Derived Neurotrophic Factor from Vesicles in Cultured Rat Astrocytes. Molecular Neurobiology, 2016, 53, 6882-6896.	4.0	46
66	Nestin Regulates Neurogenesis in Mice Through Notch Signaling From Astrocytes to Neural Stem Cells. Cerebral Cortex, 2019, 29, 4050-4066.	2.9	46
67	Adrenergic activation attenuates astrocyte swelling induced by hypotonicity and neurotrauma. Glia, 2016, 64, 1034-1049.	4.9	45
68	Calcium Signalling Toolkits in Astrocytes and Spatio-Temporal Progression of Alzheimer's Disease. Current Alzheimer Research, 2016, 13, 359-369.	1.4	44
69	Loose excitationâ€“secretion coupling in astrocytes. Glia, 2016, 64, 655-667.	4.9	43
70	General Pathophysiology of Astroglia. Advances in Experimental Medicine and Biology, 2019, 1175, 149-179.	1.6	43
71	cAMP directly facilitates Ca-induced exocytosis in bovine lactotrophs. FEBS Letters, 1990, 273, 150-154.	2.8	42
72	Astrocytes in stress accumulate lipid droplets. Glia, 2021, 69, 1540-1562.	4.9	42

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73	Rapid pressure driven exocytosis-endocytosis cycle in a single plant cell. FEBS Letters, 1993, 333, 283-286.	2.8	41
74	Automated high through-put colocalization analysis of multichannel confocal images. Computer Methods and Programs in Biomedicine, 2004, 74, 63-67.	4.7	41
75	Astrocytes and energy metabolism. Archives of Physiology and Biochemistry, 2011, 117, 64-69.	2.1	41
76	Fingolimodâ€”A sphingosineâ€”like molecule inhibits vesicle mobility and secretion in astrocytes. Glia, 2012, 60, 1406-1416.	4.9	41
77	Astroglial calcium signalling in Alzheimer's disease. Biochemical and Biophysical Research Communications, 2017, 483, 1005-1012.	2.1	41
78	Dual effects of G-protein activation on Ca-dependent exocytosis in bovine lactotrophs. FEBS Letters, 1989, 253, 88-92.	2.8	40
79	EAAT2 density at the astrocyte plasma membrane and Ca ²⁺ -regulated exocytosis. Molecular Membrane Biology, 2008, 25, 203-215.	2.0	40
80	Single-vesicle architecture of synaptobrevin2 in astrocytes. Nature Communications, 2014, 5, 3780.	12.8	40
81	Neurotropic Viruses, Astrocytes, and COVID-19. Frontiers in Cellular Neuroscience, 2021, 15, 662578.	3.7	40
82	The separation of exocytosis from endocytosis in rat melanotroph membrane capacitance records.. Journal of Physiology, 1994, 480, 539-552.	2.9	39
83	Noradrenergic Hypothesis Linking Neurodegeneration-Based Cognitive Decline and Astroglia. Frontiers in Molecular Neuroscience, 2018, 11, 254.	2.9	39
84	Ammodytoxin, a neurotoxic secreted phospholipase A2, can act in the cytosol of the nerve cell. Biochemical and Biophysical Research Communications, 2004, 324, 981-985.	2.1	37
85	Cholesterol and regulated exocytosis: A requirement for unitary exocytotic events. Cell Calcium, 2012, 52, 250-258.	2.4	37
86	Regulated Exocytosis and Vesicle Trafficking in Astrocytes. Annals of the New York Academy of Sciences, 2009, 1152, 30-42.	3.8	36
87	Capacitance Measurements of Regulated Exocytosis in Mouse Taste Cells. Journal of Neuroscience, 2010, 30, 14695-14701.	3.6	36
88	Diffusion of d-glucose measured in the cytosol of a single astrocyte. Cellular and Molecular Life Sciences, 2013, 70, 1483-1492.	5.4	36
89	Astroglipathology in the infectious insults of the brain. Neuroscience Letters, 2019, 689, 56-62.	2.1	36
90	Fura-2 Imaging of Thyrotropin-Releasing Hormone and Dopamine Effects on Calcium Homeostasis of Bovine Lactotrophs. Endocrinology, 1991, 129, 475-488.	2.8	35

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91	Raising the cytosolic Ca ²⁺ concentration increases the membrane capacitance of maize coleoptile protoplasts: Evidence for Ca ²⁺ -stimulated exocytosis. <i>Planta</i> , 1994, 195, 305.	3.2	35
92	Lysophospholipids prevent binding of a cytolytic protein ostreolysin to cholesterol-enriched membrane domains. <i>Toxicon</i> , 2008, 51, 1345-1356.	1.6	35
93	Vesicle size determines unitary exocytic properties and their sensitivity to sphingosine. <i>Molecular and Cellular Endocrinology</i> , 2013, 376, 136-147.	3.2	34
94	AQP4e-Based Orthogonal Arrays Regulate Rapid Cell Volume Changes in Astrocytes. <i>Journal of Neuroscience</i> , 2017, 37, 10748-10756.	3.6	34
95	Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs. <i>Analytica Chimica Acta</i> , 1999, 378, 135-143.	5.4	33
96	cAMP-Mediated Stabilization of Fusion Pores in Cultured Rat Pituitary Lactotrophs. <i>Journal of Neuroscience</i> , 2013, 33, 8068-8078.	3.6	33
97	Osmotic swelling of hepatocytes increases membrane conductance but not membrane capacitance. <i>Biophysical Journal</i> , 1995, 68, 1359-1363.	0.5	32
98	ZIKV Strains Differentially Affect Survival of Human Fetal Astrocytes versus Neurons and Traffic of ZIKV-Laden Endocytotic Compartments. <i>Scientific Reports</i> , 2019, 9, 8069.	3.3	32
99	The Concept of Neuroglia. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1175, 1-13.	1.6	32
100	Synaptotagmin I increases the probability of vesicle fusion at low [Ca ²⁺] in pituitary cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C547-C554.	4.6	31
101	Voltage-activated Ca ²⁺ channels and their role in the endocrine function of the pituitary gland in newborn and adult mice. <i>Journal of Physiology</i> , 2004, 555, 769-782.	2.9	31
102	Focus-Drift Correction in Time-Lapse Confocal Imaging. <i>Annals of the New York Academy of Sciences</i> , 2005, 1048, 321-330.	3.8	31
103	Transient and Permanent Fusion of Vesicles in Zea mays Coleoptile Protoplasts Measured in the Cell-attached Configuration. <i>Journal of Membrane Biology</i> , 2000, 174, 15-20.	2.1	30
104	Caffeine and theophylline block insulin-stimulated glucose uptake and PKB phosphorylation in rat skeletal muscles. <i>Acta Physiologica</i> , 2010, 200, 65-74.	3.8	30
105	Pathologic Potential of Astrocytic Vesicle Traffic: New Targets to Treat Neurologic Diseases?. <i>Cell Transplantation</i> , 2015, 24, 599-612.	2.5	30
106	Intracellular Cl ⁻ modulates Ca ²⁺ -induced exocytosis from rat melanotrophs through GTP-binding proteins. <i>Pflügers Archiv European Journal of Physiology</i> , 1995, 431, 76-83.	2.8	29
107	Elementary properties of spontaneous fusion of peptidergic vesicles: fusion pore gating. <i>Journal of Physiology</i> , 2007, 585, 655-661.	2.9	29
108	The role of cholesterol-sphingomyelin membrane nanodomains in the stability of intercellular membrane nanotubes. <i>International Journal of Nanomedicine</i> , 2012, 7, 1891.	6.7	29

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109	Fusion Pores, SNAREs, and Exocytosis. <i>Neuroscientist</i> , 2013, 19, 160-174.	3.5	29
110	Astrocyte Specific Remodeling of Plasmalemmal Cholesterol Composition by Ketamine Indicates a New Mechanism of Antidepressant Action. <i>Scientific Reports</i> , 2019, 9, 10957.	3.3	29
111	Control of secretion in anterior pituitary cells—linking ion channels, messengers and exocytosis. <i>Journal of Experimental Biology</i> , 1988, 139, 287-316.	1.7	29
112	Apoptosis triggered redistribution of caspase-9 from cytoplasm to mitochondria. <i>FEBS Letters</i> , 2003, 544, 153-159.	2.8	28
113	Distinct role of Rab3A and Rab3B in secretory activity of rat melanotrophs. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C98-C105.	4.6	28
114	Calcium signaling and secretion in pituitary cells. <i>Trends in Endocrinology and Metabolism</i> , 1996, 7, 384-388.	7.1	27
115	Trafficking of astrocytic vesicles in hippocampal slices. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 1192-1196.	2.1	27
116	Astrocytic face of Alzheimer's disease. <i>Behavioural Brain Research</i> , 2017, 322, 250-257.	2.2	27
117	Astroglial vesicular network: evolutionary trends, physiology and pathophysiology. <i>Acta Physiologica</i> , 2018, 222, e12915.	3.8	27
118	Hypotonicity and peptide discharge from a single vesicle. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C624-C631.	4.6	26
119	Subanesthetic doses of ketamine stabilize the fusion pore in a narrow flickering state in astrocytes. <i>Journal of Neurochemistry</i> , 2016, 138, 909-917.	3.9	26
120	Exocytosis in non-neuronal cells. <i>Journal of Neurochemistry</i> , 2016, 137, 849-859.	3.9	26
121	Preventing neurodegeneration by adrenergic astroglial excitation. <i>FEBS Journal</i> , 2018, 285, 3645-3656.	4.7	26
122	Unitary exocytotic and endocytotic events in <i>Zea mays</i> L. coleoptile protoplasts. <i>Plant Journal</i> , 2002, 13, 117-120.	5.7	25
123	Amyotrophic lateral sclerosis immunoglobulins G enhance the mobility of Lysotracker-labelled vesicles in cultured rat astrocytes. <i>Acta Physiologica</i> , 2011, 203, 457-471.	3.8	25
124	Insights into Cell Surface Expression, Supramolecular Organization, and Functions of Aquaporin 4 Isoforms in Astrocytes. <i>Cells</i> , 2020, 9, 2622.	4.1	25
125	Astrocytes in rapid ketamine antidepressant action. <i>Neuropharmacology</i> , 2020, 173, 108158.	4.1	25
126	Gliocrine System: Astroglia as Secretory Cells of the CNS. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1175, 93-115.	1.6	24

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127	Rab4 and Rab5 GTPase are required for directional mobility of endocytic vesicles in astrocytes. <i>Glia</i> , 2012, 60, 594-604.	4.9	23
128	Alterations of calcium homeostasis in cultured rat astrocytes evoked by bioactive sphingolipids. <i>Acta Physiologica</i> , 2014, 212, 49-61.	3.8	23
129	Ca ²⁺ as the prime trigger of aerobic glycolysis in astrocytes. <i>Cell Calcium</i> , 2021, 95, 102368.	2.4	23
130	Modulation of the unitary exocytic event amplitude by cAMP in rat melanotrophs. <i>Journal of Physiology</i> , 1998, 511, 851-859.	2.9	22
131	Actin cytoskeleton depolymerization with Clostridium spiroformetoxin enhances the secretory activity of rat melanotrophs. <i>Journal of Physiology</i> , 1999, 521, 389-395.	2.9	22
132	Differences in the expression pattern of HCN isoforms among mammalian tissues: sources and implications. <i>Molecular Biology Reports</i> , 2014, 41, 297-307.	2.3	22
133	Time-dependent uptake and trafficking of vesicles capturing extracellular S100B in cultured rat astrocytes. <i>Journal of Neurochemistry</i> , 2016, 139, 309-323.	3.9	22
134	Dynamin regulates the fusion pore of endo- and exocytotic vesicles as revealed by membrane capacitance measurements. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2293-2303.	2.4	22
135	Astrocytic Pathological Calcium Homeostasis and Impaired Vesicle Trafficking in Neurodegeneration. <i>International Journal of Molecular Sciences</i> , 2017, 18, 358.	4.1	22
136	Prolactin Secretion Sites Contain Syntaxin-1 and Differ from Ganglioside Monosialic Acid Rafts in Rat Lactotrophs. <i>Endocrinology</i> , 2008, 149, 4948-4957.	2.8	21
137	Reduction in C-terminal amidated species of recombinant monoclonal antibodies by genetic modification of CHO cells. <i>BMC Biotechnology</i> , 2014, 14, 76.	3.3	21
138	Actin cytoskeleton and exocytosis in rat melanotrophs. <i>Pflugers Archiv European Journal of Physiology</i> , 2000, 439, r148-r149.	2.8	20
139	Hyperpolarization-Activated Cyclic Nucleotide-Gated Channels and cAMP-Dependent Modulation of Exocytosis in Cultured Rat Lactotrophs. <i>Journal of Neuroscience</i> , 2014, 34, 15638-15647.	3.6	20
140	The heterotrimeric Gi3 protein acts in slow but not in fast exocytosis of rat melanotrophs. <i>Journal of Cell Science</i> , 1999, 112, 4143-4150.	2.0	20
141	Distinct effect of actin cytoskeleton disassembly on exo- and endocytic events in a membrane patch of rat melanotrophs. <i>Journal of Physiology</i> , 2002, 545, 879-886.	2.9	19
142	Quantification of cell hybridoma yields with confocal microscopy and flow cytometry. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 717-723.	2.1	19
143	Neuroglia: Functional Paralysis and Reactivity in Alzheimer's Disease and Other Neurodegenerative Pathologies. <i>Advances in Neurobiology</i> , 2017, 15, 427-449.	1.8	19
144	Physiopathologic dynamics of vesicle traffic in astrocytes. <i>Histology and Histopathology</i> , 2011, 26, 277-84.	0.7	19

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145	Concentration-Dependent Staining of Lactotroph Vesicles by FM 4-64. <i>Biophysical Journal</i> , 2005, 88, 2607-2613.	0.5	18
146	Rhythmic Kinetics of Single Fusion and Fission in a Plant Cell Protoplast. <i>Annals of the New York Academy of Sciences</i> , 2009, 1152, 1-6.	3.8	18
147	New Insights into Cytosolic Glucose Levels during Differentiation of 3T3-L1 Fibroblasts into Adipocytes. <i>Journal of Biological Chemistry</i> , 2011, 286, 13370-13381.	3.4	18
148	Plectin dysfunction in neurons leads to tau accumulation on microtubules affecting neuritogenesis, organelle trafficking, pain sensitivity and memory. <i>Neuropathology and Applied Neurobiology</i> , 2021, 47, 73-95.	3.2	18
149	Changes in cytosolic glucose level in ATP stimulated live astrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 308-313.	2.1	17
150	Neuroglia in Ageing. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1175, 181-197.	1.6	17
151	The Fusion Pore and Vesicle Cargo Discharge Modulation. <i>Annals of the New York Academy of Sciences</i> , 2009, 1152, 135-144.	3.8	16
152	Compound Exocytosis in Pituitary Cells. <i>Annals of the New York Academy of Sciences</i> , 2009, 1152, 63-75.	3.8	16
153	Immunoglobulins G from patients with sporadic amyotrophic lateral sclerosis affects cytosolic Ca ²⁺ homeostasis in cultured rat astrocytes. <i>Cell Calcium</i> , 2013, 54, 17-25.	2.4	16
154	Astroglial signalling in health and disease. <i>Neuroscience Letters</i> , 2019, 689, 1-4.	2.1	16
155	Noradrenaline-induced <i>l</i> -lactate production requires <i>d</i> -glucose entry and transit through the glycogen shunt in single cultured rat astrocytes. <i>Journal of Neuroscience Research</i> , 2021, 99, 1084-1098.	2.9	16
156	Clobetasol promotes neuromuscular plasticity in mice after motoneuronal loss via sonic hedgehog signaling, immunomodulation and metabolic rebalancing. <i>Cell Death and Disease</i> , 2021, 12, 625.	6.3	16
157	Pathophysiology of Lipid Droplets in Neuroglia. <i>Antioxidants</i> , 2022, 11, 22.	5.1	16
158	Correlated ATP-Induced Changes in Membrane Area and Membrane Conductance in Single Rat Adipocytes. <i>Annals of the New York Academy of Sciences</i> , 2005, 1048, 281-286.	3.8	15
159	Monitoring lysosomal fusion in electrofused hybridoma cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 483-490.	2.6	15
160	The uptake, retention and clearance of drug-loaded dendrimer nanoparticles in astrocytes – electrophysiological quantification. <i>Biomaterials Science</i> , 2018, 6, 388-397.	5.4	15
161	Regulated Exocytosis in Astrocytes is as Slow as the Metabolic Availability of Gliotransmitters: Focus on Glutamate and ATP. <i>Advances in Neurobiology</i> , 2014, 11, 81-101.	1.8	15
162	Astroglial Mechanisms of Ketamine Action Include Reduced Mobility of Kir4.1-Carrying Vesicles. <i>Neurochemical Research</i> , 2020, 45, 109-121.	3.3	14

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163	Inhibiting glycolysis rescues memory impairment in an intellectual disability Gdi1-null mouse. <i>Metabolism: Clinical and Experimental</i> , 2021, 116, 154463.	3.4	14
164	Lactate as an Astroglial Signal Augmenting Aerobic Glycolysis and Lipid Metabolism. <i>Frontiers in Physiology</i> , 2021, 12, 735532.	2.8	14
165	PATHOBIOLOGY OF NEURODEGENERATION: THE ROLE FOR ASTROGLIA. <i>Opera Medica Et Physiologica</i> , 2016, 1, 13-22.	1.0	14
166	Regulated exocytosis per partes. <i>Cell Calcium</i> , 2012, 52, 191-195.	2.4	13
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