

Robert Zorec

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

247
papers

8,420
citations

46
h-index

80
g-index

265
ext. papers

10,065
ext. citations

5.6
avg, IF

6.39
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 247 | Dendritic cell-based vaccine prolongs survival and time to next therapy independently of the vaccine cell number.. <i>Biology Direct</i> , 2022 , 17, 5 | 7.2 | |
| 246 | The Activation of GPR27 Increases Cytosolic L-Lactate in 3T3 Embryonic Cells and Astrocytes.. <i>Cells</i> , 2022 , 11, | 7.9 | 1 |
| 245 | Probing single molecule mechanical interactions of syntaxin 1A with native synaptobrevin 2 residing on a secretory vesicle.. <i>Cell Calcium</i> , 2022 , 104, 102570 | 4 | 0 |
| 244 | Methods for Monitoring Endocytosis in Astrocytes. <i>Methods in Molecular Biology</i> , 2021 , 2233, 93-100 | 1.4 | 0 |
| 243 | Vesicle cholesterol controls exocytotic fusion pore. <i>Cell Calcium</i> , 2021 , 101, 102503 | 4 | 3 |
| 242 | Ketamine Action on Astrocytes Provides New Insights into Rapid Antidepressant Mechanisms. <i>Advances in Neurobiology</i> , 2021 , 26, 349-365 | 2.1 | 0 |
| 241 | Cover Image, Volume 69, Issue 12. <i>Glia</i> , 2021 , 69, C1 | 9 | |
| 240 | Inhibiting glycolysis rescues memory impairment in an intellectual disability Gdi1-null mouse. <i>Metabolism: Clinical and Experimental</i> , 2021 , 116, 154463 | 12.7 | 8 |
| 239 | Neurotropic Viruses, Astrocytes, and COVID-19. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 662578 | 6.1 | 19 |
| 238 | Ca as the prime trigger of aerobic glycolysis in astrocytes. <i>Cell Calcium</i> , 2021 , 95, 102368 | 4 | 6 |
| 237 | 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 | 9.8 | 6 |
| 236 | Plectin dysfunction in neurons leads to tau accumulation on microtubules affecting neuriteogenesis, organelle trafficking, pain sensitivity and memory. <i>Neuropathology and Applied Neurobiology</i> , 2021 , 47, 73-95 | 5.2 | 4 |
| 235 | Noradrenaline-induced l-lactate production requires d-glucose entry and transit through the glycogen shunt in single-cultured rat astrocytes. <i>Journal of Neuroscience Research</i> , 2021 , 99, 1084-1098 | 4.4 | 7 |
| 234 | Astrocytes in heavy metal neurotoxicity and neurodegeneration. <i>Brain Research</i> , 2021 , 1752, 147234 | 3.7 | 13 |
| 233 | Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021 , 24, 312-325 | 35 | 298 |
| 232 | Astrocytes in stress accumulate lipid droplets. <i>Glia</i> , 2021 , 69, 1540-1562 | 9 | 11 |
| 231 | The Association Between Antidepressant Effect of SSRIs and Astrocytes: Conceptual Overview and Meta-analysis of the Literature. <i>Neurochemical Research</i> , 2021 , 46, 2731-2745 | 4.6 | 2 |

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|-----|--|-------|-----|
| 230 | Astrocyte arborization enhances Ca but not cAMP signaling plasticity. <i>Glia</i> , 2021 , 69, 2899-2916 | 9 | 1 |
| 229 | Survival of castration-resistant prostate cancer patients treated with dendritic-tumor cell hybridomas is negatively correlated with changes in peripheral blood CD56 CD16 natural killer cells. <i>Clinical and Translational Medicine</i> , 2021 , 11, e505 | 5.7 | 1 |
| 228 | Lactate as an Astroglial Signal Augmenting Aerobic Glycolysis and Lipid Metabolism. <i>Frontiers in Physiology</i> , 2021 , 12, 735532 | 4.6 | 2 |
| 227 | Insights into Cell Surface Expression, Supramolecular Organization, and Functions of Aquaporin 4 Isoforms in Astrocytes. <i>Cells</i> , 2020 , 9, | 7.9 | 9 |
| 226 | Astrocytes in rapid ketamine antidepressant action. <i>Neuropharmacology</i> , 2020 , 173, 108158 | 5.5 | 14 |
| 225 | Indirect Role of AQP4b and AQP4d Isoforms in Dynamics of Astrocyte Volume and Orthogonal Arrays of Particles. <i>Cells</i> , 2020 , 9, | 7.9 | 7 |
| 224 | Neuroinfection may contribute to pathophysiology and clinical manifestations of COVID-19. <i>Acta Physiologica</i> , 2020 , 229, e13473 | 5.6 | 178 |
| 223 | Large-Scale Proteomics Highlights Glial Role in Neurodegeneration. <i>Cell Metabolism</i> , 2020 , 32, 11-12 | 24.6 | 2 |
| 222 | Astrocytes with TDP-43 inclusions exhibit reduced noradrenergic cAMP and Ca signaling and dysregulated cell metabolism. <i>Scientific Reports</i> , 2020 , 10, 6003 | 4.9 | 26 |
| 221 | Secretory Astrocytes. <i>Masterclass in Neuroendocrinology</i> , 2020 , 127-160 | 0.2 | |
| 220 | Exocytotic fusion pore under stress. <i>Cell Stress</i> , 2020 , 4, 218-226 | 5.5 | |
| 219 | Exocytotic fusion pore under stress. <i>Cell Stress</i> , 2020 , 4, 218-226 | 5.5 | 2 |
| 218 | Exocytosis of large-diameter lysosomes mediates interferon β -induced relocation of MHC class II molecules toward the surface of astrocytes. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 3245-3264 | 10.3 | 9 |
| 217 | Physiology of Astroglial Excitability. <i>Function</i> , 2020 , 1, zqaa016 | 6.1 | 21 |
| 216 | Astroglial Mechanisms of Ketamine Action Include Reduced Mobility of Kir4.1-Carrying Vesicles. <i>Neurochemical Research</i> , 2020 , 45, 109-121 | 4.6 | 9 |
| 215 | Nestin affects fusion pore dynamics in mouse astrocytes. <i>Acta Physiologica</i> , 2020 , 228, e13399 | 5.6 | 4 |
| 214 | Astroglial atrophy in Alzheimer's disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2019 , 471, 1247-1261 | 4.261 | 47 |
| 213 | Fingolimod Suppresses the Proinflammatory Status of Interferon- β -Activated Cultured Rat Astrocytes. <i>Molecular Neurobiology</i> , 2019 , 56, 5971-5986 | 6.2 | 8 |

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|-----|---|-----|-----|
| 212 | 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 | 4.9 | 12 |
| 211 | Metabolic Plasticity of Astrocytes and Aging of the Brain. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 32 |
| 210 | Astrocytes in Flavivirus Infections. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 31 |
| 209 | Astroglipathology in the infectious insults of the brain. <i>Neuroscience Letters</i> , 2019 , 689, 56-62 | 3.3 | 23 |
| 208 | Astrocyte Specific Remodeling of Plasmalemmal Cholesterol Composition by Ketamine Indicates a New Mechanism of Antidepressant Action. <i>Scientific Reports</i> , 2019 , 9, 10957 | 4.9 | 18 |
| 207 | The Concept of Neuroglia. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1175, 1-13 | 3.6 | 20 |
| 206 | Astroglia in Alzheimer's Disease. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1175, 273-324 | 3.6 | 25 |
| 205 | Physiology of Astroglia. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1175, 45-91 | 3.6 | 29 |
| 204 | Gliocrine System: Astroglia as Secretory Cells of the CNS. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1175, 93-115 | 3.6 | 12 |
| 203 | General Pathophysiology of Astroglia. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1175, 149-179 | 3.6 | 24 |
| 202 | Neuroglia in Ageing. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1175, 181-197 | 3.6 | 8 |
| 201 | Nestin Regulates Neurogenesis in Mice Through Notch Signaling From Astrocytes to Neural Stem Cells. <i>Cerebral Cortex</i> , 2019 , 29, 4050-4066 | 5.1 | 25 |
| 200 | Slow Release of HIV-1 Protein Nef from Vesicle-like Structures Is Inhibited by Cytosolic Calcium Elevation in Single Human Microglia. <i>Molecular Neurobiology</i> , 2019 , 56, 102-118 | 6.2 | 6 |
| 199 | SNARE-mediated vesicle navigation, vesicle anatomy and exocytotic fusion pore. <i>Cell Calcium</i> , 2018 , 73, 53-54 | 4 | 3 |
| 198 | Preventing neurodegeneration by adrenergic astroglial excitation. <i>FEBS Journal</i> , 2018 , 285, 3645-3656 | 5.7 | 16 |
| 197 | Presenilin PS1E9 disrupts mobility of secretory organelles in rat astrocytes. <i>Acta Physiologica</i> , 2018 , 223, e13046 | 5.6 | 2 |
| 196 | The uptake, retention and clearance of drug-loaded dendrimer nanoparticles in astrocytes - electrophysiological quantification. <i>Biomaterials Science</i> , 2018 , 6, 388-397 | 7.4 | 12 |
| 195 | PKH26 labeling of extracellular vesicles: Characterization and cellular internalization of contaminating PKH26 nanoparticles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 1350-1361 | 3.8 | 110 |

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| 194 | Enteric glia regulate gut motility in health and disease. <i>Brain Research Bulletin</i> , 2018 , 136, 109-117 | 3.9 | 33 |
| 193 | Ångstrom-size exocytotic fusion pore: Implications for pituitary hormone secretion. <i>Molecular and Cellular Endocrinology</i> , 2018 , 463, 65-71 | 4.4 | 8 |
| 192 | Astroglial vesicular network: evolutionary trends, physiology and pathophysiology. <i>Acta Physiologica</i> , 2018 , 222, e12915 | 5.6 | 21 |
| 191 | Systemic Hypoxia Increases the Expression of DPP4 in Preadipocytes of Healthy Human Participants. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2018 , 126, 91-95 | 2.3 | 1 |
| 190 | Enhancement of Astroglial Aerobic Glycolysis by Extracellular Lactate-Mediated Increase in cAMP. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 148 | 6.1 | 37 |
| 189 | Noradrenergic Hypothesis Linking Neurodegeneration-Based Cognitive Decline and Astroglia. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 254 | 6.1 | 32 |
| 188 | Impaired EDI Function in the X-Linked Intellectual Disability: The Impact on Astroglia Vesicle Dynamics. <i>Molecular Neurobiology</i> , 2017 , 54, 2458-2468 | 6.2 | 5 |
| 187 | Astrocytic face of Alzheimer's disease. <i>Behavioural Brain Research</i> , 2017 , 322, 250-257 | 3.4 | 18 |
| 186 | Astrocytic Vesicle-based Exocytosis in Cultures and Acutely Isolated Hippocampal Rodent Slices. <i>Journal of Neuroscience Research</i> , 2017 , 95, 2152-2158 | 4.4 | 8 |
| 185 | AQP4e-Based Orthogonal Arrays Regulate Rapid Cell Volume Changes in Astrocytes. <i>Journal of Neuroscience</i> , 2017 , 37, 10748-10756 | 6.6 | 23 |
| 184 | Adrenergic Ca ²⁺ and cAMP Excitability 2017 , 103-125 | | |
| 183 | Sphingomimetic multiple sclerosis drug FTY720 activates vesicular synaptobrevin and augments neuroendocrine secretion. <i>Scientific Reports</i> , 2017 , 7, 5958 | 4.9 | 11 |
| 182 | Stratification of astrocytes in healthy and diseased brain. <i>Brain Pathology</i> , 2017 , 27, 629-644 | 6 | 117 |
| 181 | Exocytotic fusion pores as a target for therapy. <i>Cell Calcium</i> , 2017 , 66, 71-77 | 4 | 2 |
| 180 | Neuroglia: Functional Paralysis and Reactivity in Alzheimer's Disease and Other Neurodegenerative Pathologies. <i>Advances in Neurobiology</i> , 2017 , 15, 427-449 | 2.1 | 15 |
| 179 | Dynamitin 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 | 4 | 16 |
| 178 | Astroglial calcium signalling in Alzheimer's disease. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 1005-1012 | 3.4 | 28 |
| 177 | Astroglial Vesicular Trafficking in Neurodegenerative Diseases. <i>Neurochemical Research</i> , 2017 , 42, 905-916 | 4.7 | 10 |

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| 176 | Locus Coeruleus Noradrenergic Neurons and Astroglia in Health and Disease 2017 , 1-24 | | 1 |
| 175 | Astrocytic Pathological Calcium Homeostasis and Impaired Vesicle Trafficking in Neurodegeneration. <i>International Journal of Molecular Sciences</i> , 2017 , 18, | 6.3 | 16 |
| 174 | Targeting Astrocytes for Treating Neurological Disorders: Carbon Monoxide and Noradrenaline-Induced Increase in Lactate. <i>Current Pharmaceutical Design</i> , 2017 , 23, 4969-4978 | 3.3 | 8 |
| 173 | Astrocytic vesicles and gliotransmitters: Slowness of vesicular release and synaptobrevin2-laden vesicle nanoarchitecture. <i>Neuroscience</i> , 2016 , 323, 67-75 | 3.9 | 41 |
| 172 | Astrocytes in physiological aging and Alzheimer's disease. <i>Neuroscience</i> , 2016 , 323, 170-82 | 3.9 | 238 |
| 171 | Ketamine Inhibits ATP-Evoked Exocytotic Release of Brain-Derived Neurotrophic Factor from Vesicles in Cultured Rat Astrocytes. <i>Molecular Neurobiology</i> , 2016 , 53, 6882-6896 | 6.2 | 38 |
| 170 | Unproductive exocytosis. <i>Journal of Neurochemistry</i> , 2016 , 137, 880-9 | 6 | 9 |
| 169 | Adrenergic stimulation of single rat astrocytes results in distinct temporal changes in intracellular Ca(2+) and cAMP-dependent PKA responses. <i>Cell Calcium</i> , 2016 , 59, 156-63 | 4 | 36 |
| 168 | Astroglia dynamics in ageing and Alzheimer's disease. <i>Current Opinion in Pharmacology</i> , 2016 , 26, 74-9 | 5.1 | 84 |
| 167 | PATHOBIOLOGY OF NEURODEGENERATION: THE ROLE FOR ASTROGLIA 2016 , 1, 13-22 | | 12 |
| 166 | Calcium signalling toolkits in astrocytes and spatio-temporal progression of Alzheimer's disease. <i>Current Alzheimer Research</i> , 2016 , 13, 359-69 | 3 | 27 |
| 165 | Synthetic cell pathobiology to study neurodegeneration: defining new therapeutic targets in astroglia. <i>Neural Regeneration Research</i> , 2016 , 11, 234-5 | 4.5 | |
| 164 | Hypoxia Alters the Expression of Dipeptidyl Peptidase 4 and Induces Developmental Remodeling of Human Preadipocytes. <i>Journal of Diabetes Research</i> , 2016 , 2016, 7481470 | 3.9 | 9 |
| 163 | Astrocyte Aquaporin Dynamics in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2016 , 17, | 6.3 | 37 |
| 162 | Subanesthetic doses of ketamine stabilize the fusion pore in a narrow flickering state in astrocytes. <i>Journal of Neurochemistry</i> , 2016 , 138, 909-17 | 6 | 20 |
| 161 | Loose excitation-secretion coupling in astrocytes. <i>Glia</i> , 2016 , 64, 655-67 | 9 | 36 |
| 160 | Adrenergic activation attenuates astrocyte swelling induced by hypotonicity and neurotrauma. <i>Glia</i> , 2016 , 64, 1034-49 | 9 | 37 |
| 159 | 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, 317-29 ⁹ | | 38 |

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| 158 | Dominant negative SNARE peptides stabilize the fusion pore in a narrow, release-unproductive state. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 3719-31 | 10.3 | 45 |
| 157 | Astrocytes as secretory cells of the central nervous system: idiosyncrasies of vesicular secretion. <i>EMBO Journal</i> , 2016 , 35, 239-57 | 13 | 230 |
| 156 | Time-dependent uptake and trafficking of vesicles capturing extracellular S100B in cultured rat astrocytes. <i>Journal of Neurochemistry</i> , 2016 , 139, 309-323 | 6 | 14 |
| 155 | Exocytosis in non-neuronal cells. <i>Journal of Neurochemistry</i> , 2016 , 137, 849-59 | 6 | 21 |
| 154 | Insulin and Insulin-like Growth Factor 1 (IGF-1) Modulate Cytoplasmic Glucose and Glycogen Levels but Not Glucose Transport across the Membrane in Astrocytes. <i>Journal of Biological Chemistry</i> , 2015 , 290, 11167-76 | 5.4 | 37 |
| 153 | Excitable Astrocytes: Ca(2+)- and cAMP-Regulated Exocytosis. <i>Neurochemical Research</i> , 2015 , 40, 2414-24.6 | 4.6 | 48 |
| 152 | Local electrostatic interactions determine the diameter of fusion pores. <i>Channels</i> , 2015 , 9, 96-101 | 3 | 4 |
| 151 | Pathologic potential of astrocytic vesicle traffic: new targets to treat neurologic diseases?. <i>Cell Transplantation</i> , 2015 , 24, 599-612 | 4 | 28 |
| 150 | Memory Formation Shaped by Astroglia. <i>Frontiers in Integrative Neuroscience</i> , 2015 , 9, 56 | 3.2 | 54 |
| 149 | Single-vesicle architecture of synaptobrevin2 in astrocytes. <i>Nature Communications</i> , 2014 , 5, 3780 | 17.4 | 38 |
| 148 | Reduction in C-terminal amidated species of recombinant monoclonal antibodies by genetic modification of CHO cells. <i>BMC Biotechnology</i> , 2014 , 14, 76 | 3.5 | 18 |
| 147 | Differences in the expression pattern of HCN isoforms among mammalian tissues: sources and implications. <i>Molecular Biology Reports</i> , 2014 , 41, 297-307 | 2.8 | 17 |
| 146 | Insulin induces an increase in cytosolic glucose levels in 3T3-L1 cells with inhibited glycogen synthase activation. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 17827-37 | 6.3 | 5 |
| 145 | Dynamics of β adrenergic/cAMP signaling and morphological changes in cultured astrocytes. <i>Glia</i> , 2014 , 62, 566-79 | 9 | 67 |
| 144 | Alterations of calcium homeostasis in cultured rat astrocytes evoked by bioactive sphingolipids. <i>Acta Physiologica</i> , 2014 , 212, 49-61 | 5.6 | 20 |
| 143 | Hyperpolarization-activated cyclic nucleotide-gated channels and cAMP-dependent modulation of exocytosis in cultured rat lactotrophs. <i>Journal of Neuroscience</i> , 2014 , 34, 15638-47 | 6.6 | 15 |
| 142 | Tick-borne encephalitis virus infects rat astrocytes but does not affect their viability. <i>PLoS ONE</i> , 2014 , 9, e86219 | 3.7 | 35 |
| 141 | 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 | 2.1 | 14 |

140 Pathophysiology of Vesicle Dynamics in Astrocytes **2014**, 33-60

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|-----|---|------|-----|
| 139 | Diffusion of D-glucose measured in the cytosol of a single astrocyte. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 1483-92 | 10.3 | 26 |
| 138 | Fusion pores, SNAREs, and exocytosis. <i>Neuroscientist</i> , 2013 , 19, 160-74 | 7.6 | 21 |
| 137 | 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 | 4 | 12 |
| 136 | Cholesterol-mediated membrane surface area dynamics in neuroendocrine cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013 , 1831, 1228-38 | 5 | 11 |
| 135 | Peptide hormone release monitored from single vesicles in "membrane lawns" of differentiated male pituitary cells: SNAREs and fusion pore widening. <i>Endocrinology</i> , 2013 , 154, 1235-46 | 4.8 | 6 |
| 134 | Regulation of AQP4 surface expression via vesicle mobility in astrocytes. <i>Glia</i> , 2013 , 61, 917-28 | 9 | 54 |
| 133 | High-resolution membrane capacitance measurements for the study of exocytosis and endocytosis. <i>Nature Protocols</i> , 2013 , 8, 1169-83 | 18.8 | 45 |
| 132 | Vesicle size determines unitary exocytic properties and their sensitivity to sphingosine. <i>Molecular and Cellular Endocrinology</i> , 2013 , 376, 136-47 | 4.4 | 28 |
| 131 | cAMP-mediated stabilization of fusion pores in cultured rat pituitary lactotrophs. <i>Journal of Neuroscience</i> , 2013 , 33, 8068-78 | 6.6 | 28 |
| 130 | Astrocytic vesicle mobility in health and disease. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 11238-58 | 6.3 | 40 |
| 129 | Comparison of unitary exocytic events in pituitary lactotrophs and in astrocytes: modeling the discrete open fusion-pore states. <i>Frontiers in Cellular Neuroscience</i> , 2013 , 7, 33 | 6.1 | 4 |
| 128 | Rab4 and Rab5 GTPase are required for directional mobility of endocytic vesicles in astrocytes. <i>Glia</i> , 2012 , 60, 594-604 | 9 | 20 |
| 127 | Fusion pore regulation in peptidergic vesicles. <i>Cell Calcium</i> , 2012 , 52, 270-6 | 4 | 6 |
| 126 | Aluminium-induced changes of fusion pore properties attenuate prolactin secretion in rat pituitary lactotrophs. <i>Neuroscience</i> , 2012 , 201, 57-66 | 3.9 | 10 |
| 125 | Astrocytes negatively regulate neurogenesis through the Jagged1-mediated Notch pathway. <i>Stem Cells</i> , 2012 , 30, 2320-9 | 5.8 | 108 |
| 124 | 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 | 10.1 | 84 |
| 123 | Exocytosis in astrocytes: transmitter release and membrane signal regulation. <i>Neurochemical Research</i> , 2012 , 37, 2351-63 | 4.6 | 49 |

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|-----|---|-----|-----|
| 122 | Cholesterol and regulated exocytosis: a requirement for unitary exocytotic events. <i>Cell Calcium</i> , 2012 , 52, 250-8 | 4 | 29 |
| 121 | The transport along membrane nanotubes driven by the spontaneous curvature of membrane components. <i>Bioelectrochemistry</i> , 2012 , 87, 204-10 | 5.6 | 8 |
| 120 | Adipocyte cell size enlargement involves plasma membrane area increase. <i>Archives of Physiology and Biochemistry</i> , 2012 , 118, 121-7 | 2.2 | 3 |
| 119 | Fusion pore diameter regulation by cations modulating local membrane anisotropy. <i>Scientific World Journal, The</i> , 2012 , 2012, 983138 | 2.2 | 7 |
| 118 | Erratum to Fusion Pore Diameter Regulation by Cations Modulating Local Membrane Anisotropy. <i>Scientific World Journal, The</i> , 2012 , 2012, 1-1 | 2.2 | 78 |
| 117 | The role of cholesterol-sphingomyelin membrane nanodomains in the stability of intercellular membrane nanotubes. <i>International Journal of Nanomedicine</i> , 2012 , 7, 1891-902 | 7.3 | 24 |
| 116 | Fingolimod--a sphingosine-like molecule inhibits vesicle mobility and secretion in astrocytes. <i>Glia</i> , 2012 , 60, 1406-16 | 9 | 34 |
| 115 | Glial cells in (patho)physiology. <i>Journal of Neurochemistry</i> , 2012 , 121, 4-27 | 6 | 392 |
| 114 | Morphological alterations of T24 cells on flat and nanotubular TiO ₂ surfaces. <i>Croatian Medical Journal</i> , 2012 , 53, 577-85 | 1.6 | 9 |
| 113 | Astroglial excitability and gliotransmission: an appraisal of Ca ²⁺ as a signalling route. <i>ASN Neuro</i> , 2012 , 4, | 5.3 | 207 |
| 112 | Munc18-1, exocytotic fusion pore regulation and local membrane anisotropy. <i>Communicative and Integrative Biology</i> , 2012 , 5, 74-7 | 1.7 | 2 |
| 111 | Astrocytes and energy metabolism. <i>Archives of Physiology and Biochemistry</i> , 2011 , 117, 64-9 | 2.2 | 31 |
| 110 | Changes in cytosolic glucose level in ATP stimulated live astrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 405, 308-13 | 3.4 | 16 |
| 109 | Rosiglitazone balances insulin-induced exo- and endocytosis in single 3T3-L1 adipocytes. <i>Molecular and Cellular Endocrinology</i> , 2011 , 333, 70-7 | 4.4 | 3 |
| 108 | Amyotrophic lateral sclerosis immunoglobulins G enhance the mobility of LysoTracker-labelled vesicles in cultured rat astrocytes. <i>Acta Physiologica</i> , 2011 , 203, 457-71 | 5.6 | 22 |
| 107 | Exploring the binding dynamics of BAR proteins. <i>Cellular and Molecular Biology Letters</i> , 2011 , 16, 398-418.1 | 8.1 | 6 |
| 106 | Dynamic monitoring of cytosolic glucose in single astrocytes. <i>Glia</i> , 2011 , 59, 903-13 | 9 | 47 |
| 105 | How to Make a Stable Exocytotic Fusion Pore, Incompetent of Neurotransmitter and Hormone Release from the Vesicle Lumen?. <i>Behavior Research Methods</i> , 2011 , 14, 45-61 | 6.1 | |

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| 104 | Munc18-1 tuning of vesicle merger and fusion pore properties. <i>Journal of Neuroscience</i> , 2011 , 31, 9055-66.6 | 5.6 | 59 |
| 103 | New insights into cytosolic glucose levels during differentiation of 3T3-L1 fibroblasts into adipocytes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 13370-81 | 5.4 | 16 |
| 102 | Physiopathologic dynamics of vesicle traffic in astrocytes. <i>Histology and Histopathology</i> , 2011 , 26, 277-84.4 | 4.4 | 19 |
| 101 | Caffeine and theophylline block insulin-stimulated glucose uptake and PKB phosphorylation in rat skeletal muscles. <i>Acta Physiologica</i> , 2010 , 200, 65-74 | 5.6 | 20 |
| 100 | Challenges with advanced therapy medicinal products and how to meet them. <i>Nature Reviews Drug Discovery</i> , 2010 , 9, 195-201 | 64.1 | 140 |
| 99 | Induction/engineering, detection, selection, and expansion of clinical-grade human antigen-specific CD8 cytotoxic T cell clones for adoptive immunotherapy. <i>Journal of Biomedicine and Biotechnology</i> , 2010 , 2010, 705215 | | 2 |
| 98 | Fusion Pore: An Evolutionary Invention of Nucleated Cells. <i>European Review</i> , 2010 , 18, 347-364 | 0.3 | 4 |
| 97 | Capacitance measurements of regulated exocytosis in mouse taste cells. <i>Journal of Neuroscience</i> , 2010 , 30, 14695-701 | 6.6 | 33 |
| 96 | Lipid-protein interactions in exocytotic release of hormones and neurotransmitters. <i>Clinical Lipidology</i> , 2010 , 5, 747-761 | | 10 |
| 95 | Regulated exocytosis in astrocytic signal integration. <i>Neurochemistry International</i> , 2010 , 57, 451-9 | 4.4 | 54 |
| 94 | Gliotransmission: Exocytotic release from astrocytes. <i>Brain Research Reviews</i> , 2010 , 63, 83-92 | | 289 |
| 93 | Fusion pore stability of peptidergic vesicles. <i>Molecular Membrane Biology</i> , 2010 , 27, 65-80 | 3.4 | 55 |
| 92 | Analysis of confocal images using variable-width line profiles. <i>Protoplasma</i> , 2010 , 246, 73-80 | 3.4 | 0 |
| 91 | Life and death in aluminium-exposed cultures of rat lactotrophs studied by flow cytometry. <i>Cell Biology and Toxicology</i> , 2010 , 26, 341-53 | 7.4 | 3 |
| 90 | Intermediate filaments attenuate stimulation-dependent mobility of endosomes/lysosomes in astrocytes. <i>Glia</i> , 2010 , 58, 1208-19 | 9 | 73 |
| 89 | Fused late endocytic compartments and immunostimulatory capacity of dendritic-tumor cell hybridomas. <i>Journal of Membrane Biology</i> , 2009 , 229, 11-8 | 2.3 | 5 |
| 88 | Histolocalisation of the oil and pigments in the pumpkin seed. <i>Annals of Applied Biology</i> , 2009 , 154, 413-418 | 4.8 | 8 |
| 87 | 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 | 6.5 | 17 |

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| 86 | Regulated exocytosis and vesicle trafficking in astrocytes. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1152, 30-42 | 6.5 | 31 |
| 85 | The fusion pore and vesicle cargo discharge modulation. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1152, 135-44 | 6.5 | 15 |
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