

# Michelle L Olsen

## 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.

41  
papers

2,076  
citations

22  
h-index

45  
g-index

45  
ext. papers

2,508  
ext. citations

6.5  
avg, IF

5  
L-index

#	Paper	IF	Citations
41	A closer look at astrocyte morphology: Development, heterogeneity, and plasticity at astrocyte leaflets.. <i>Current Opinion in Neurobiology</i> , <b>2022</b> , 74, 102550	7.6	1
40	Metabolic Enzyme Alterations and Astrocyte Dysfunction in a Murine Model of Alexander Disease with Severe Reactive Gliosis. <i>Molecular and Cellular Proteomics</i> , <b>2021</b> , 100180	7.6	0
39	Microbial community changes in a female rat model of Rett syndrome. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2021</b> , 109, 110259	5.5	2
38	K 5.1-dependent CO /H -sensitive currents contribute to astrocyte heterogeneity across brain regions. <i>Glia</i> , <b>2021</b> , 69, 310-325	9	10
37	Putative roles of astrocytes in general anesthesia. <i>Current Neuropharmacology</i> , <b>2021</b> ,	7.6	2
36	DNA methylation: A mechanism for sustained alteration of KIR4.1 expression following central nervous system insult. <i>Glia</i> , <b>2020</b> , 68, 1495-1512	9	4
35	Isoflurane inhibits a Kir4.1/5.1-like conductance in neonatal rat brainstem astrocytes and recombinant Kir4.1/5.1 channels in a heterologous expression system. <i>Journal of Neurophysiology</i> , <b>2020</b> , 124, 740-749	3.2	3
34	Magnetic Cell Sorting for In Vivo and In Vitro Astrocyte, Neuron, and Microglia Analysis. <i>Current Protocols in Neuroscience</i> , <b>2019</b> , 88, e71	2.7	24
33	Glial Dysfunction in MeCP2 Deficiency Models: Implications for Rett Syndrome. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
32	Glial SIK3: A central player in ion and volume homeostasis in peripheral nerves. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 3888-3889	7.3	
31	Astrocyte morphogenesis is dependent on BDNF signaling via astrocytic TrkB.T1. <i>ELife</i> , <b>2019</b> , 8,	8.9	57
30	AP-1 and the injury response of the GFAP gene. <i>Journal of Neuroscience Research</i> , <b>2019</b> , 97, 149-161	4.4	8
29	MeCP2 Deficiency Leads to Loss of Glial Kir4.1. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	19
28	Adenosine Signaling through A1 Receptors Inhibits Chemosensitive Neurons in the Retrotrapezoid Nucleus. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	9
27	Acute Increases in Protein O-GlcNAcylation Dampen Epileptiform Activity in Hippocampus. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 8207-8215	6.6	15
26	The $\alpha$ isoform combination dominates the astrocytic Na /K -ATPase activity and is rendered nonfunctional by the $\beta$ .G301R familial hemiplegic migraine type 2-associated mutation. <i>Glia</i> , <b>2017</b> , 65, 1777-1793	9	33
25	RNA sequencing and proteomics approaches reveal novel deficits in the cortex of -deficient mice, a model for Rett syndrome. <i>Molecular Autism</i> , <b>2017</b> , 8, 56	6.5	42

24	The role of glial-specific Kir4.1 in normal and pathological states of the CNS. <i>Acta Neuropathologica</i> , <b>2016</b> , 132, 1-21	14.3	106
23	Novel Applications of Magnetic Cell Sorting to Analyze Cell-Type Specific Gene and Protein Expression in the Central Nervous System. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150290	3.7	46
22	MeCP2 deficiency results in robust Rett-like behavioural and motor deficits in male and female rats. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 3303-3320	5.6	23
21	New Insights on Astrocyte Ion Channels: Critical for Homeostasis and Neuron-Glia Signaling. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 13827-35	6.6	126
20	Correlating Gene-specific DNA Methylation Changes with Expression and Transcriptional Activity of Astrocytic KCNJ10 (Kir4.1). <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	5
19	Elevated GFAP induces astrocyte dysfunction in caudal brain regions: A potential mechanism for hindbrain involved symptoms in type II Alexander disease. <i>Glia</i> , <b>2015</b> , 63, 2285-97	9	20
18	MeCP2 in the regulation of neural activity: Rett syndrome pathophysiological perspectives. <i>Degenerative Neurological and Neuromuscular Disease</i> , <b>2015</b> , 5, 103-116	5.4	2
17	Methyl-CpG-binding protein 2 (MECP2) mutation type is associated with disease severity in Rett syndrome. <i>Journal of Medical Genetics</i> , <b>2014</b> , 51, 152-8	5.8	181
16	DNA methylation functions as a critical regulator of Kir4.1 expression during CNS development. <i>Glia</i> , <b>2014</b> , 62, 411-27	9	43
15	Functional changes in glutamate transporters and astrocyte biophysical properties in a rodent model of focal cortical dysplasia. <i>Frontiers in Cellular Neuroscience</i> , <b>2014</b> , 8, 425	6.1	26
14	Astrocyte Kir4.1 ion channel deficits contribute to neuronal dysfunction in Huntington's disease model mice. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 694-703	25.5	356
13	Development and validation of fluorescence-based and automated patch clamp-based functional assays for the inward rectifier potassium channel Kir4.1. <i>Assay and Drug Development Technologies</i> , <b>2013</b> , 11, 532-43	2.1	22
12	Examining potassium channel function in astrocytes. <i>Methods in Molecular Biology</i> , <b>2012</b> , 814, 265-81	1.4	23
11	Spinal cord injury causes a wide-spread, persistent loss of Kir4.1 and glutamate transporter 1: benefit of 17 beta-oestradiol treatment. <i>Brain</i> , <b>2010</b> , 133, 1013-25	11.2	60
10	Functional implications for Kir4.1 channels in glial biology: from K <sup>+</sup> buffering to cell differentiation. <i>Journal of Neurochemistry</i> , <b>2008</b> , 107, 589-601	6	224
9	CLC3 is a critical regulator of the cell cycle in normal and malignant glial cells. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 9205-17	6.6	91
8	BK channels are linked to inositol 1,4,5-triphosphate receptors via lipid rafts: a novel mechanism for coupling [Ca <sup>2+</sup> ] <sub>i</sub> to ion channel activation. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 31558-68	5.4	76
7	Differential distribution of Kir4.1 in spinal cord astrocytes suggests regional differences in K <sup>+</sup> homeostasis. <i>Journal of Neurophysiology</i> , <b>2007</b> , 98, 786-93	3.2	68

6	Whole-Cell Patch-Clamp Recordings. <i>Neuromethods</i> , <b>2007</b> , 35-68	0.4	8
5	Functional expression of Kir4.1 channels in spinal cord astrocytes. <i>Glia</i> , <b>2006</b> , 53, 516-28	9	87
4	Modulation of glioma BK channels via erbB2. <i>Journal of Neuroscience Research</i> , <b>2005</b> , 81, 179-89	4.4	18
3	Voltage-Activated Ion Channels in Glial Cells <b>2004</b> , 112-130		2
2	Mislocalization of Kir channels in malignant glia. <i>Glia</i> , <b>2004</b> , 46, 63-73	9	81
1	Expression of voltage-gated chloride channels in human glioma cells. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 5572-82	6.6	131