

# Rogelio Arellano

## List of Publications by Year in descending order

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45  
papers

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citations

471371

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h-index

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all docs

45  
docs citations

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times ranked

938  
citing authors

#	ARTICLE	IF	CITATIONS
1	A monovalent cationic conductance that is blocked by extracellular divalent cations in <i>Xenopus</i> oocytes.. <i>Journal of Physiology</i> , 1995, 484, 593-604.	1.3	61
2	PARACRINE STIMULATION OF P2X7 RECEPTOR BY ATP ACTIVATES A PROLIFERATIVE PATHWAY IN OVARIAN CARCINOMA CELLS. <i>Journal of Cellular Biochemistry</i> , 2014, 115, n/a-n/a.	1.2	50
3	Protein phosphorylation and hydrogen ions modulate calcium-induced closure of gap junction channels. <i>Biophysical Journal</i> , 1990, 57, 363-367.	0.2	45
4	Axon-to-Glia Interaction Regulates GABA <sub>A</sub> Receptor Expression in Oligodendrocytes. <i>Molecular Pharmacology</i> , 2016, 89, 63-74.	1.0	43
5	A <sub>3</sub> Adenosine receptors mediate oligodendrocyte death and ischemic damage to optic nerve. <i>Glia</i> , 2014, 62, 199-216.	2.5	41
6	Electrophysiological and hemolytic activity elicited by the venom of the jellyfish <i>Cassiopea xamachana</i> . <i>Toxicon</i> , 2001, 39, 1297-1307.	0.8	39
7	Expression and Function of GABA Receptors in Myelinating Cells. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 256.	1.8	31
8	Calmodulin Acts as an intermediary for the effects of calcium on gap junctions from crayfish lateral axons. <i>Journal of Membrane Biology</i> , 1988, 101, 119-131.	1.0	28
9	Novel Cl <sup>-</sup> currents elicited by follicle stimulating hormone and acetylcholine in follicle-enclosed <i>Xenopus</i> oocytes.. <i>Journal of General Physiology</i> , 1993, 102, 833-857.	0.9	28
10	Ionic Currents Activated via Purinergic Receptors in the Cumulus Cell-Enclosed Mouse Oocyte1. <i>Biology of Reproduction</i> , 2002, 67, 837-846.	1.2	26
11	mRNA coding for neurotransmitter receptors in a human astrocytoma.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 3399-3403.	3.3	25
12	Glycosylated and Phosphorylated Proteinsâ€™ Expression in Yeast and Oocytes of <i>Xenopus</i> : Prospects and Challengesâ€™ Relevance to Expression of Thermostable Proteins. <i>Protein Expression and Purification</i> , 2001, 22, 369-380.	0.6	25
13	Lowering of pH does not directly affect the junctional resistance of crayfish lateral axons. <i>Journal of Membrane Biology</i> , 1986, 94, 293-299.	1.0	24
14	Functional role of follicular cells in the generation of osmolarityâ€dependent Cl <sup>-</sup> currents in <i>Xenopus</i> follicles.. <i>Journal of Physiology</i> , 1995, 488, 351-357.	1.3	24
15	Cl <sup>+</sup> currents activated via purinergic receptors in <i>Xenopus</i> follicles. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C333-C340.	2.1	23
16	Interplay between ryanodine and IP3 receptors in ATP-stimulated mouse luteinized-granulosa cells. <i>Cell Calcium</i> , 2005, 37, 203-213.	1.1	21
17	ATP-induced apoptotic cell death in porcine ovarian theca cells through P2X7 receptor activation. <i>Molecular Reproduction and Development</i> , 2006, 73, 745-755.	1.0	21
18	ION Channels and Membrane Receptors in Follicle-Enclosed <i>Xenopus</i> Oocytes. , 1996, 4, 203-259.		21

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19	Granulosa cells express three inositol 1,4,5-trisphosphate receptor isoforms: cytoplasmic and nuclear Ca <sup>2+</sup> mobilization. <i>Reproductive Biology and Endocrinology</i> , 2008, 6, 60.	1.4	18
20	GAT <sup>1</sup> mediated GABA uptake in rat oligodendrocytes. <i>Glia</i> , 2017, 65, 514-522.	2.5	18
21	Functional expression and intracellular signaling of UTP-sensitive P2Y receptors in theca-interstitial cells. <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 88.	1.4	17
22	Differential expression of the P2X7 receptor in ovarian surface epithelium during the oestrous cycle in the mouse. <i>Reproduction, Fertility and Development</i> , 2013, 25, 971.	0.1	17
23	Kca3.1 Activation Via P2y2 Purinergic Receptors Promotes Human Ovarian Cancer Cell (Skov-3) Migration. <i>Scientific Reports</i> , 2017, 7, 4340.	1.6	17
24	Muscarinic receptor heterogeneity in follicle-enclosed <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 1999, 521, 409-419.	1.3	16
25	Role for ionic fluxes on cell death and apoptotic volume decrease in cultured cerebellar granule neurons. <i>Neuroscience</i> , 2010, 167, 298-311.	1.1	15
26	Functional interaction between native G protein-coupled purinergic receptors in <i>Xenopus</i> follicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16680-16685.	3.3	13
27	Electrophysiological characterization of a novel small peptide from the venom of <i>Conus californicus</i> that targets voltage-gated neuronal Ca <sup>2+</sup> channels. <i>Toxicon</i> , 2011, 57, 60-67.	0.8	11
28	Demyelination and Remyelination of the Rat Caudal Cerebellar Peduncle Evaluated with Magnetic Resonance Imaging. <i>Neuroscience</i> , 2020, 439, 255-267.	1.1	11
29	Epithelium and/or theca are required for ATP-elicited K <sup>+</sup> current in follicle-enclosed <i>Xenopus</i> oocytes. <i>Journal of Cellular Physiology</i> , 2005, 202, 814-821.	2.0	10
30	Electrophysiological activity of a neurotoxic fraction from the venom of box jellyfish <i>Carybdea marsupialis</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 191, 177-182.	1.3	10
31	Osmo-dependent Cl <sup>3/4</sup> currents activated by cyclic AMP in follicle-enclosed <i>Xenopus</i> oocytes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1994, 258, 229-235.	1.2	9
32	Native ion current coupled to purinergic activation via basal and mechanically induced ATP release in <i>Xenopus</i> follicles. <i>Journal of Cellular Physiology</i> , 2009, 218, 355-365.	2.0	9
33	Inwardly Rectifying K <sup>+</sup> Currents in Cultured Oligodendrocytes from Rat Optic Nerve are Insensitive to pH. <i>Neurochemical Research</i> , 2017, 42, 2443-2455.	1.6	9
34	P2X7 Receptors as a Therapeutic Target in Cerebrovascular Diseases. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 92.	1.4	9
35	Agonist-activated Ca <sup>2+</sup> influx and Ca <sup>2+</sup> -dependent Cl <sup>-</sup> channels in <i>Xenopus</i> ovarian follicular cells: Functional heterogeneity within the cell monolayer. <i>Journal of Cellular Physiology</i> , 2012, 227, 3457-3470.	2.0	8
36	Dynamic properties of calcium-activated chloride currents in <i>Xenopus laevis</i> oocytes. <i>Scientific Reports</i> , 2017, 7, 41791.	1.6	6

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37	GABA <sub>A</sub> Receptors Expressed in Oligodendrocytes Cultured from the Neonatal Rat Contain $\alpha 3$ and $\beta 1$ Subunits and Present Differential Functional and Pharmacological Properties. <i>Molecular Pharmacology</i> , 2021, 99, 133-146.	1.0	6
38	ARP2 a novel protein involved in apoptosis of LNCaP cells shares a high degree homology with splicing factor Prp8. <i>Molecular and Cellular Biochemistry</i> , 2005, 269, 189-201.	1.4	5
39	Therapeutic Potential of GABAergic Signaling in Myelin Plasticity and Repair. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 662191.	1.8	4
40	Humoral factors reduce gap junction sensitivity to cytoplasmic pH. II. In vitro manipulations. <i>American Journal of Physiology - Cell Physiology</i> , 1991, 260, C1039-C1045.	2.1	3
41	Differential role of STIM1 and STIM2 during transient inward (I <sub>tin</sub> ) current generation and the maturation process in the <i>Xenopus</i> oocyte. <i>BMC Physiology</i> , 2014, 14, 9.	3.6	3
42	Adenosine and Multiple Sclerosis. , 2013, , 435-457.		2
43	Paracrine Purinergic Signaling Between Ovarian Cells.. <i>Biology of Reproduction</i> , 2008, 78, 88-88.	1.2	0
44	Regulatory Mechanisms of Gap Junctional Communication in Crayfish Axons. , 2018, , 241-256.		0
45	Sea anemone <i>Bartholomea annulata</i> venom inhibits voltage-gated Na <sup>+</sup> channels and activates GABA <sub>A</sub> receptors from mammals. <i>Scientific Reports</i> , 2022, 12, 5352.	1.6	0