Ivan Rodriguez

List of Publications by Year
in descending order

56 papers	6,874 citations	126907 33 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	5591 citing authors

#	Article	IF	Citations
1	Overexpression of BCL-2 in transgenic mice protects neurons from naturally occurring cell death and experimental ischemia. Neuron, 1994, 13, 1017-1030.	8.1	1,091
2	Differentiation of Embryonic Stem Cell Lines Generated from Adult Somatic Cells by Nuclear Transfer. Science, 2001, 292, 740-743.	12.6	548
3	An early and massive wave of germinal cell apoptosis is required for the development of functional spermatogenesis. EMBO Journal, 1997, 16, 2262-2270.	7.8	519
4	Variable Patterns of Axonal Projections of Sensory Neurons in the Mouse Vomeronasal System. Cell, 1999, 97, 199-208.	28.9	355
5	Deficient pheromone responses in mice lacking a cluster of vomeronasal receptor genes. Nature, 2002, 419, 70-74.	27.8	338
6	Formyl peptide receptor-like proteins are a novel family of vomeronasal chemosensors. Nature, 2009, 459, 574-577.	27.8	323
7	Axon Guidance of Mouse Olfactory Sensory Neurons by Odorant Receptors and the Î²2 Adrenergic Receptor. Cell, 2004, 117, 833-846.	28.9	277
8	Oxygen Toxicity in Mouse Lung: Pathways to Cell Death. American Journal of Respiratory Cell and Molecular Biology, 1998, 19, 573-581.	2.9	271
9	A putative pheromone receptor gene expressed in human olfactory mucosa. Nature Genetics, 2000, 26, 18-19.	21.4	221
10	Peripheral Olfactory Projections Are Differentially Affected in Mice Deficient in a Cyclic Nucleotide-Gated Channel Subunit. Neuron, 2000, 26, 81-91.	8.1	218
11	Pheromone detection mediated by a V1r vomeronasal receptor. Nature Neuroscience, 2002, 5, 1261-1262.	14.8	208
12	Multiple new and isolated families within the mouse superfamily of V1r vomeronasal receptors. Nature Neuroscience, 2002, 5, 134-140.	14.8	175
13	SARS-CoV-2 Receptors and Entry Genes Are Expressed in the Human Olfactory Neuroepithelium and Brain. IScience, 2020, 23, 101839.	4.1	173
14	Neuronal pattern separation in the olfactory bulb improves odor discrimination learning. Nature Neuroscience, 2015, 18, 1474-1482.	14.8	165
15	Aberrant Sensory Innervation of the Olfactory Bulb in Neuropilin-2 Mutant Mice. Journal of Neuroscience, 2002, 22, 4025-4035.	3.6	160
16	Odorant and vomeronasal receptor genes in two mouse genome assemblies. Genomics, 2004, 83, 802-811.	2.9	149
17	A Divergent Pattern of Sensory Axonal Projections Is Rendered Convergent by Second-Order Neurons in the Accessory Olfactory Bulb. Neuron, 2002, 35, 1057-1066.	8.1	146
18	Large-scale transcriptional profiling of chemosensory neurons identifies receptor-ligand pairs in vivo. Nature Neuroscience, 2015, 18, 1455-1463.	14.8	119

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19	Olfactory expression of a single and highly variable V1r pheromone receptor-like gene in fish species. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5489-5494.	7.1	110
20	Novel human vomeronasal receptor-like genes reveal species-specific families. Current Biology, 2002, 12, R409-R411.	3.9	98
21	The Vomeronasal System Mediates Sick Conspecific Avoidance. Current Biology, 2015, 25, 251-255.	3.9	96
22	Adenylyl cyclase-dependent axonal targeting in the olfactory system. Development (Cambridge), 2007, 134, 2481-2489.	2.5	95
23	Neuroinflammation-Associated Aspecific Manipulation of Mouse Predator Fear by Toxoplasma gondii. Cell Reports, 2020, 30, 320-334.e6.	6.4	88
24	Mouse Vaginal Opening Is an Apoptosis-Dependent Process Which Can Be Prevented by the Overexpression of Bcl2. Developmental Biology, 1997, 184, 115-121.	2.0	73
25	Context- and Output Layer-Dependent Long-Term Ensemble Plasticity in a Sensory Circuit. Neuron, 2017, 93, 1198-1212.e5.	8.1	70
26	Projection of the GrÃ¼neberg ganglion to the mouse olfactory bulb. European Journal of Neuroscience, 2006, 23, 2887-2894.	2.6	66
27	Singular Expression of Olfactory Receptor Genes. Cell, 2013, 155, 274-277.	28.9	55
28	Gene cluster lock after pheromone receptor gene choice. EMBO Journal, 2007, 26, 3423-3430.	7.8	54
29	Contrasted Evolution of the Vomeronasal Receptor Repertoires in Mammals and Squamate Reptiles. Genome Biology and Evolution, 2013, 5, 389-401.	2.5	54
30	Long term functional plasticity of sensory inputs mediated by olfactory learning. ELife, 2014, 3, e02109.	6.0	53
31	Restoring wild-type-like CA1 network dynamics and behavior during adulthood in a mouse model of schizophrenia. Nature Neuroscience, 2018, 21, 1412-1420.	14.8	53
32	Pheromone receptors in mammals. Hormones and Behavior, 2004, 46, 219-230.	2.1	39
33	A population of glomerular glutamatergic neurons controls sensory information transfer in the mouse olfactory bulb. Nature Communications, 2014, 5, 3791.	12.8	36
34	Bcl-2 prevents activation of CPP32 cysteine protease and cleavage of poly (ADP-ribose) polymerase and U1-70 kD proteins in staurosporine-mediated apoptosis. Cell Death and Differentiation, 1997, 4, 34-38.	11.2	33
35	Divergent Evolution among Teleost V1r Receptor Genes. PLoS ONE, 2007, 2, e379.	2.5	30
36	The wiring of Grueneberg ganglion axons is dependent on neuropilin 1. Development (Cambridge), 2012, 139, 2783-2791.	2.5	30

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37	Sensory-Evoked Intrinsic Imaging Signals in the Olfactory Bulb Are Independent of Neurovascular Coupling. Cell Reports, 2015, 12, 313-325.	6.4	25
38	Generation of human islet cell type-specific identity genesets. Nature Communications, 2022, 13, 2020.	12.8	25
39	Evolution of immune chemoreceptors into sensors of the outside world. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7397-7402.	7.1	24
40	Alteration of Nrp1 signaling at different stages of olfactory neuron maturation promotes glomerular shifts along distinct axes in the olfactory bulb. Development (Cambridge), 2016, 143, 3817-3825.	2.5	20
41	Remarkable diversity of mammalian pheromone receptor repertoires. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6639-6640.	7.1	18
42	Dense encoding of natural odorants by ensembles of sparsely activated neurons in the olfactory bulb. Scientific Reports, 2016, 6, 36514.	3.3	16
43	A common gene exclusion mechanism used by two chemosensory systems. European Journal of Neuroscience, 2009, 29, 671-678.	2.6	15
44	The KrÃ¼ppel-associated Box Repressor Domain Can Induce Reversible Heterochromatization of a Mouse Locus in Vivo. Journal of Biological Chemistry, 2012, 287, 25361-25369.	3.4	15
45	Physiological characterization of formyl peptide receptor expressing cells in the mouse vomeronasal organ. Frontiers in Neuroanatomy, 2014, 8, 134.	1.7	15
46	Cutaneous Delayed-Type Hypersensitivity Response is Inhibited in Transgenic Mice with Keratinocyte-Specific CD44 Expression Defect. Journal of Investigative Dermatology, 1999, 113, 137-138.	0.7	14
47	Imaging Pheromone Sensing in a Mouse Vomeronasal Acute Tissue Slice Preparation. Journal of Visualized Experiments, 2011, , .	0.3	14
48	Nosing into pheromone detectors. Nature Neuroscience, 2003, 6, 438-440.	14.8	13
49	Transcriptional adaptation of olfactory sensory neurons to GPCR identity and activity. Nature Communications, 2022, 13, .	12.8	13
50	Convergence of FPR-rs3-expressing neurons in the mouse accessory olfactory bulb. Molecular and Cellular Neurosciences, 2013, 56, 140-147.	2.2	11
51	Odorant and pheromone receptor gene regulation in vertebrates. Current Opinion in Genetics and Development, 2007, 17, 465-470.	3.3	9
52	From immune to olfactory expression: neofunctionalization of formyl peptide receptors. Cell and Tissue Research, 2021, 383, 387-393.	2.9	8
53	Vomeronasal Receptors. , 2016, , 175-190.		5
54	The Chemical MUPpeteer. Cell, 2010, 141, 568-570.	28.9	3

#	Article	IF	Citations
55	Ultrafast pulse shaping modulates perceived visual brightness in living animals. Science Advances, 2021, 7, .	10.3	2
56	To care or not to care. Nature, 2014, 509, 294-295.	27.8	0