

Amir Rattner

List of Publications by Year in descending order

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40
papers

6,581
citations

147801

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289244

40
g-index

43
all docs

43
docs citations

43
times ranked

7941
citing authors

#	ARTICLE	IF	CITATIONS
1	Signaling Pathways in Neurovascular Development. Annual Review of Neuroscience, 2022, 45, 87-108.	10.7	8
2	A transcriptome atlas of the mouse iris at single-cell resolution defines cell types and the genomic response to pupil dilation. ELife, 2021, 10, .	6.0	6
3	Developmental, cellular, and behavioral phenotypes in a mouse model of congenital hypoplasia of the dentate gyrus. ELife, 2020, 9, .	6.0	2
4	Hypoxia tolerance in the Norrin-deficient retina and the chronically hypoxic brain studied at single-cell resolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9103-9114.	7.1	44
5	Roles of HIFs and VEGF in angiogenesis in the retina and brain. Journal of Clinical Investigation, 2019, 129, 3807-3820.	8.2	117
6	Beta-catenin signaling regulates barrier-specific gene expression in circumventricular organ and ocular vasculatures. ELife, 2019, 8, .	6.0	74
7	Transcriptional and epigenomic landscapes of CNS and non-CNS vascular endothelial cells. ELife, 2018, 7, .	6.0	180
8	Affinity capture of polyribosomes followed by RNAseq (ACAPseq), a discovery platform for protein-protein interactions. ELife, 2018, 7, .	6.0	12
9	Frizzled Receptors in Development and Disease. Current Topics in Developmental Biology, 2016, 117, 113-139.	2.2	112
10	Patterning of papillae on the mouse tongue: A system for the quantitative assessment of planar cell polarity signaling. Developmental Biology, 2016, 419, 298-310.	2.0	21
11	Canonical WNT signaling components in vascular development and barrier formation. Journal of Clinical Investigation, 2014, 124, 3825-3846.	8.2	260
12	The Role of the Hypoxia Response in Shaping Retinal Vascular * Development in the Absence of Norrin/Frizzled4 Signaling. Investigative Ophthalmology and Visual Science, 2014, 55, 8614-8625.	3.3	27
13	Cellular Resolution Maps of X Chromosome Inactivation: Implications for Neural Development, Function, and Disease. Neuron, 2014, 81, 103-119.	8.1	179
14	Endothelin-2 signaling in the neural retina promotes the endothelial tip cell state and inhibits angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3830-9.	7.1	40
15	Endothelin-2 deficiency causes growth retardation, hypothermia, and emphysema in mice. Journal of Clinical Investigation, 2013, 123, 2643-2653.	8.2	33
16	How to draw the line in biomedical research. ELife, 2013, 2, e00638.	6.0	5
17	Injury-independent induction of reactive gliosis in retina by loss of function of the LIM homeodomain transcription factor Lhx2. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4657-4662.	7.1	86
18	Norrin/Frizzled4 Signaling in Retinal Vascular Development and Blood Brain Barrier Plasticity. Cell, 2012, 151, 1332-1344.	28.9	301

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19	Genetic mosaic analysis reveals a major role for frizzled 4 and frizzled 8 in controlling ureteric growth in the developing kidney. <i>Development (Cambridge)</i> , 2011, 138, 1161-1172.	2.5	47
20	Preclinical assessment of CNS drug action using eye movements in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 3528-3541.	8.2	7
21	The Genomic Response of the Retinal Pigment Epithelium to Light Damage and Retinal Detachment. <i>Journal of Neuroscience</i> , 2008, 28, 9880-9889.	3.6	43
22	An Evolutionary Perspective on the Photoreceptor Damage Response. <i>American Journal of Ophthalmology</i> , 2006, 141, 558-562.e2.	3.3	14
23	Macular degeneration: recent advances and therapeutic opportunities. <i>Nature Reviews Neuroscience</i> , 2006, 7, 860-872.	10.2	199
24	Effects of L1 retrotransposon insertion on transcript processing, localization and accumulation: lessons from the retinal degeneration 7 mouse and implications for the genomic ecology of L1 elements. <i>Human Molecular Genetics</i> , 2006, 15, 2146-2156.	2.9	74
25	The Rod Photoreceptor-Specific Nuclear Receptor Nr2e3 Represses Transcription of Multiple Cone-Specific Genes. <i>Journal of Neuroscience</i> , 2005, 25, 118-129.	3.6	239
26	The Genomic Response to Retinal Disease and Injury: Evidence for Endothelin Signaling from Photoreceptors to Glia. <i>Journal of Neuroscience</i> , 2005, 25, 4540-4549.	3.6	187
27	An Outer Segment Localization Signal at the C Terminus of the Photoreceptor-Specific Retinol Dehydrogenase. <i>Journal of Neuroscience</i> , 2004, 24, 2623-2632.	3.6	53
28	Proteolytic Shedding of the Extracellular Domain of Photoreceptor Cadherin. <i>Journal of Biological Chemistry</i> , 2004, 279, 42202-42210.	3.4	49
29	A Photoreceptor-Specific Cadherin Is Essential for the Structural Integrity of the Outer Segment and for Photoreceptor Survival. <i>Neuron</i> , 2001, 32, 775-786.	8.1	120
30	Insights into Wnt binding and signalling from the structures of two Frizzled cysteine-rich domains. <i>Nature</i> , 2001, 412, 86-90.	27.8	412
31	Identification and Characterization of All-trans-retinol Dehydrogenase from Photoreceptor Outer Segments, the Visual Cycle Enzyme That Reduces All-trans-retinal to All-trans-retinol. <i>Journal of Biological Chemistry</i> , 2000, 275, 11034-11043.	3.4	182
32	Cloning and Characterization of a Secreted Frizzled-Related Protein that is Expressed by the Retinal Pigment Epithelium. <i>Human Molecular Genetics</i> , 1999, 8, 575-583.	2.9	95
33	CPG16, a Novel Protein Serine/Threonine Kinase Downstream of cAMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 1999, 274, 2631-2636.	3.4	60
34	Biochemical characterization of Wnt-Frizzled interactions using a soluble, biologically active vertebrate Wnt protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 3546-3551.	7.1	310
35	Molecular Genetics of Human Retinal Disease. <i>Annual Review of Genetics</i> , 1999, 33, 89-131.	7.6	223
36	A new secreted protein that binds to Wnt proteins and inhibits their activities. <i>Nature</i> , 1999, 398, 431-436.	27.8	664

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37	Hippocampal plasticity involves extensive gene induction and multiple cellular mechanisms. <i>Journal of Molecular Neuroscience</i> , 1998, 10, 75-98.	2.3	147
38	A family of secreted proteins contains homology to the cysteine-rich ligand-binding domain of frizzled receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 2859-2863.	7.1	525
39	A photoreceptor cell-specific ATP-binding transporter gene (ABCR) is mutated in recessive Starqardt macular dystrophy. <i>Nature Genetics</i> , 1997, 15, 236-246.	21.4	1,277
40	A brain-specific transcription activator. <i>Neuron</i> , 1989, 3, 563-572.	8.1	140