Amir Rattner

List of Publications by Year
in descending order

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40	6,581	147801	289244
papers	citations	31 h-index	40 g-index

43	43	43	7941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A photoreceptor cell-specific ATP-binding transporter gene (ABCR) is mutated in recessive Starqardt macular dystrophy. Nature Genetics, 1997, 15, 236-246.	21.4	1,277
2	A new secreted protein that binds to Wnt proteins and inhibits their activites. Nature, 1999, 398, 431-436.	27.8	664
3	A family of secreted proteins contains homology to the cysteine-rich ligand-binding domain of frizzledâ€‰receptors. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2859-2863.	7.1	525
4	Insights into Wnt binding and signalling from the structures of two Frizzled cysteine-rich domains. Nature, 2001, 412, 86-90.	27.8	412
5	Biochemical characterization of Wnt-Frizzled interactions using a soluble, biologically active vertebrate Wnt protein. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 3546-3551.	7.1	310
6	Norrin/Frizzled4 Signaling in Retinal Vascular Development and Blood Brain Barrier Plasticity. Cell, 2012, 151, 1332-1344.	28.9	301
7	Canonical WNT signaling components in vascular development and barrier formation. Journal of Clinical Investigation, 2014, 124, 3825-3846.	8.2	260
8	The Rod Photoreceptor-Specific Nuclear Receptor Nr2e3 Represses Transcription of Multiple Cone-Specific Genes. Journal of Neuroscience, 2005, 25, 118-129.	3.6	239
9	Molecular Genetics of Human Retinal Disease. Annual Review of Genetics, 1999, 33, 89-131.	7.6	223
10	Macular degeneration: recent advances and therapeutic opportunities. Nature Reviews Neuroscience, 2006, 7, 860-872.	10.2	199
11	The Genomic Response to Retinal Disease and Injury: Evidence for Endothelin Signaling from Photoreceptors to Glia. Journal of Neuroscience, 2005, 25, 4540-4549.	3.6	187
12	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. Journal of Biological Chemistry, 2000, 275, 11034-11043.	3.4	182
13	Transcriptional and epigenomic landscapes of CNS and non-CNS vascular endothelial cells. ELife, 2018, 7, .	6.0	180
14	Cellular Resolution Maps of X Chromosome Inactivation: Implications for Neural Development, Function, and Disease. Neuron, 2014, 81, 103-119.	8.1	179
15	Hippocampal plasticity involves extensive gene induction and multiple cellular mechanisms. Journal of Molecular Neuroscience, 1998, 10, 75-98.	2.3	147
16	A brain-specific transcription activator. Neuron, 1989, 3, 563-572.	8.1	140
17	A Photoreceptor-Specific Cadherin Is Essential for the Structural Integrity of the Outer Segment and for Photoreceptor Survival. Neuron, 2001, 32, 775-786.	8.1	120
18	Roles of HIFs and VEGF in angiogenesis in the retina and brain. Journal of Clinical Investigation, 2019, 129, 3807-3820.	8.2	117

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19	Frizzled Receptors in Development and Disease. Current Topics in Developmental Biology, 2016, 117, 113-139.	2.2	112
20	Cloning and Characterization of a Secreted Frizzled-Related Protein that is Expressed by the Retinal Pigment Epithelium. Human Molecular Genetics, 1999, 8, 575-583.	2.9	95
21	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
22	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. Human Molecular Genetics, 2006, 15, 2146-2156.	2.9	74
23	Beta-catenin signaling regulates barrier-specific gene expression in circumventricular organ and ocular vasculatures. ELife, 2019, 8, .	6.0	74
24	CPG16, a Novel Protein Serine/Threonine Kinase Downstream of cAMP-dependent Protein Kinase. Journal of Biological Chemistry, 1999, 274, 2631-2636.	3.4	60
25	An Outer Segment Localization Signal at the C Terminus of the Photoreceptor-Specific Retinol Dehydrogenase. Journal of Neuroscience, 2004, 24, 2623-2632.	3.6	53
26	Proteolytic Shedding of the Extracellular Domain of Photoreceptor Cadherin. Journal of Biological Chemistry, 2004, 279, 42202-42210.	3.4	49
27	Genetic mosaic analysis reveals a major role for frizzled 4 and frizzled 8 in controlling ureteric growth in the developing kidney. Development (Cambridge), 2011, 138, 1161-1172.	2.5	47
28	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
29	The Genomic Response of the Retinal Pigment Epithelium to Light Damage and Retinal Detachment. Journal of Neuroscience, 2008, 28, 9880-9889.	3.6	43
30	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
31	Endothelin-2 deficiency causes growth retardation, hypothermia, and emphysema in mice. Journal of Clinical Investigation, 2013, 123, 2643-2653.	8.2	33
32	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
33	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
34	An Evolutionary Perspective on the Photoreceptor Damage Response. American Journal of Ophthalmology, 2006, 141, 558-562.e2.	3.3	14
35	Affinity capture of polyribosomes followed by RNAseq (ACAPseq), a discovery platform for protein-protein interactions. ELife, 2018, 7, .	6.0	12
36	Signaling Pathways in Neurovascular Development. Annual Review of Neuroscience, 2022, 45, 87-108.	10.7	8

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37	Preclinical assessment of CNS drug action using eye movements in mice. Journal of Clinical Investigation, 2011, 121, 3528-3541.	8.2	7
38	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
39	How to draw the line in biomedical research. ELife, 2013, 2, e00638.	6.0	5
40	Developmental, cellular, and behavioral phenotypes in a mouse model of congenital hypoplasia of the dentate gyrus. ELife, 2020, 9, .	6.0	2