## Joel Alan Hirsch

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Model for Arrestin's Regulation: The 2.8 à Crystal Structure of Visual Arrestin. Cell, 1999, 97, 257-269.	28.9	396
2	Differential Interactions Between Beclin 1 and Bcl-2 Family Members. Autophagy, 2007, 3, 561-568.	9.1	263
3	Structural Analysis of the Voltage-Dependent Calcium Channel β Subunit Functional Core and Its Complex with the α1 Interaction Domain. Neuron, 2004, 42, 387-399.	8.1	258
4	Structure of the multimodular endonuclease FokI bound to DNA. Nature, 1997, 388, 97-100.	27.8	256
5	Calmodulin Is Essential for Cardiac I KS Channel Gating and Assembly. Circulation Research, 2006, 98, 1055-1063.	4.5	182
6	How Does Arrestin Respond to the Phosphorylated State of Rhodopsin?. Journal of Biological Chemistry, 1999, 274, 11451-11454.	3.4	164
7	The KCNQ1 (Kv7.1) COOH Terminus, a Multitiered Scaffold for Subunit Assembly and Protein Interaction. Journal of Biological Chemistry, 2008, 283, 5815-5830.	3.4	123
8	The NAP motif of activity-dependent neuroprotective protein (ADNP) regulates dendritic spines through microtubule end binding proteins. Molecular Psychiatry, 2014, 19, 1115-1124.	7.9	111
9	APP Homodimers Transduce an Amyloid-β-Mediated Increase in Release Probability at Excitatory Synapses. Cell Reports, 2014, 7, 1560-1576.	6.4	109
10	Structure of the even-skipped homeodomain complexed to AT-rich DNA: new perspectives on homeodomain specificity EMBO Journal, 1995, 14, 6280-6291.	7.8	108
11	Transition of Arrestin into the Active Receptor-binding State Requires an Extended Interdomain Hinge. Journal of Biological Chemistry, 2002, 277, 43961-43967.	3.4	91
12	Structural Basis of a Kv7.1 Potassium Channel Gating Module: Studies of the Intracellular C-Terminal Domain in Complex with Calmodulin. Structure, 2014, 22, 1582-1594.	3.3	88
13	Evidence that the glucose transporter serves as a water channel in J774 macrophages Proceedings of the United States of America, 1989, 86, 8397-8401.	7.1	79
14	The Voltage-dependent Calcium Channel β Subunit Contains Two Stable Interacting Domains. Journal of Biological Chemistry, 2003, 278, 52323-52332.	3.4	76
15	An S-Acylation Switch of Conserved G Domain Cysteines Is Required for Polarity Signaling by ROP GTPases. Current Biology, 2010, 20, 914-920.	3.9	74
16	Visual Arrestin Activity May Be Regulated by Self-association. Journal of Biological Chemistry, 1999, 274, 21186-21190.	3.4	68
17	The <i>Arabidopsis</i> COP9 Signalosome Subunit 7 Is a Model PCI Domain Protein with Subdomains Involved in COP9 Signalosome Assembly. Plant Cell, 2008, 20, 2815-2834.	6.6	59
18	Competition of calcified calmodulin N lobe and PIP <sub>2</sub> to an LQT mutation site in Kv7.1 channel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E869-E878.	7.1	46

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19	Intracellular domains interactions and gated motions of IKS potassium channel subunits. EMBO Journal, 2009, 28, 1994-2005.	7.8	45
20	Structural basis for active single and double ring complexes in human mitochondrial Hsp60-Hsp10 chaperonin. Nature Communications, 2020, 11, 1916.	12.8	44
21	Long QT mutations disrupt <i>IKS</i> regulation by PKA and PIP2 at the same KCNQ1 helix C-KCNE1 interface. Journal of Cell Science, 2014, 127, 3943-55.	2.0	38
22	A Common Ca2+-Driven Interdomain Module Governs Eukaryotic NCX Regulation. PLoS ONE, 2012, 7, e39985.	2.5	36
23	A novel Ca2+-binding protein that can rapidly transduce auxin responses during root growth. PLoS Biology, 2019, 17, e3000085.	5.6	35
24	The Role of a Voltage-Dependent Ca <sup>2+</sup> Channel Intracellular Linker: A Structure-Function Analysis. Journal of Neuroscience, 2012, 32, 7602-7613.	3.6	34
25	Competitive and Non-competitive Regulation of Calcium-dependent Inactivation in CaV1.2 L-type Ca2+ Channels by Calmodulin and Ca2+-binding Protein 1. Journal of Biological Chemistry, 2013, 288, 12680-12691.	3.4	34
26	Two missense mutations in KCNQ1 cause pituitary hormone deficiency and maternally inherited gingival fibromatosis. Nature Communications, 2017, 8, 1289.	12.8	33
27	RGK Family G-Domain:GTP Analog Complex Structures and Nucleotide-Binding Properties. Journal of Molecular Biology, 2011, 413, 372-389.	4.2	31
28	Beclin 1 selfâ€association is independent of autophagy induction by amino acid deprivation and rapamycin treatment. Journal of Cellular Biochemistry, 2010, 110, 1262-1271.	2.6	30
29	Regulation of Neuronal M-Channel Gating in an Isoform-Specific Manner: Functional Interplay between Calmodulin and Syntaxin 1A. Journal of Neuroscience, 2011, 31, 14158-14171.	3.6	28
30	Ca <sup>2+</sup> -Calmodulin and PIP2 interactions at the proximal C-terminus of Kv7 channels. Channels, 2017, 11, 686-695.	2.8	28
31	Population Shift Underlies Ca2+-induced Regulatory Transitions in the Sodium-Calcium Exchanger (NCX). Journal of Biological Chemistry, 2013, 288, 23141-23149.	3.4	26
32	Structural Insights into the M-Channel Proximal C-Terminus/Calmodulin Complex. Biochemistry, 2016, 55, 5353-5365.	2.5	26
33	The Organization of a CSN5-containing Subcomplex of the COP9 Signalosome. Journal of Biological Chemistry, 2012, 287, 42031-42041.	3.4	25
34	Structure-function studies of the G-domain from human gem, a novel small G-protein. FEBS Letters, 2006, 580, 5959-5964.	2.8	24
35	Characterization of the calmodulin-binding site in the N terminus of CaV1.2. Channels, 2009, 3, 337-342.	2.8	23
36	The C2B Domain Is the Primary Ca2+ Sensor in DOC2B: A Structural and Functional Analysis. Journal of Molecular Biology, 2013, 425, 4629-4641.	4.2	20

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37	Drosophila COP9 signalosome subunit 7 interacts with multiple genomic loci to regulate development. Nucleic Acids Research, 2014, 42, 9761-9770.	14.5	18
38	Reconstitution of β-adrenergic regulation of Ca <sub>V</sub> 1.2: Rad-dependent and Rad-independent protein kinase A mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
39	Ancient Origins of RGK Protein Function: Modulation of Voltage-Gated Calcium Channels Preceded the Protostome and Deuterostome Split. PLoS ONE, 2014, 9, e100694.	2.5	12
40	Interactions between N and C termini of α <sub>1C</sub> subunit regulate inactivation of Ca <sub>V</sub> 1.2 L-type Ca <sup>2+</sup> channel. Channels, 2016, 10, 55-68.	2.8	12
41	COP9 signalosome subunit 7 from Arabidopsis interacts with and regulates the small subunit of ribonucleotide reductase (RNR2). Plant Molecular Biology, 2011, 77, 77-89.	3.9	11
42	A unique mechanism of inactivation gating of the Kv channel family member Kv7.1 and its modulation by PIP2 and calmodulin. Science Advances, 2020, 6, .	10.3	10
43	A novel point mutation (I137T) in the conserved 5-phosphoribosyl-1-pyrophosphate binding motif of hypoxanthine-guanine phosphoribosyltransferase (HPRTJerusalem) in a variant of Lesch–Nyhan syndrome. Molecular Genetics and Metabolism, 2003, 78, 158-161.	1.1	9
44	Ca <sub>V</sub> 1.2 I-II linker structure and Timothy syndrome. Channels, 2012, 6, 468-472.	2.8	8
45	Crystallization and preliminary X-ray analysis of restriction endonuclease Fok I bound to DNA. FEBS Letters, 1997, 403, 136-138.	2.8	7
46	Expression, purification and crystallization of a functional core of the voltage-dependent calcium channel β subunit. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1301-1303.	2,5	6
47	Structural Flexibility of CaV1.2 and CaV2.2 I-II Proximal Linker Fragments inÂSolution. Biophysical Journal, 2013, 104, 2392-2400.	0.5	5
48	Purification, crystallization, and preliminary X-ray diffraction analysis of even-skipped homeodomain complexed to DNA. Proteins: Structure, Function and Bioinformatics, 1995, 21, 268-271.	2.6	4
49	An S-Acylation Switch of Conserved G Domain Cysteines Is Required for Polarity Signaling by ROP GTPases. Current Biology, 2010, 20, 1326.	3.9	4
50	Characterization of the Calmodulin-Binding Site in the N Terminus of Cav1.2. Biophysical Journal, 2010, 98, 518a.	0.5	4
51	The Role of KCNQ1 Mutations and Maternal Beta Blocker Use During Pregnancy in the Growth of Children With Long QT Syndrome. Frontiers in Endocrinology, 2018, 9, 194.	3.5	3
52	Clinical and Biochemical Manifestations and Molecular Characterization of the Mutation HPRT Jerusalem. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 1165-1168.	1.1	2
53	Expression, purification and crystallization of a PCI domain from the COP9 signalosome subunit 7 (CSN7). Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 1138-1140.	0.7	2
54	The Distal Kcne1 C-Terminus is Crucial for Yotiao Mediated Pka-Dependent Phosphorylation of KCNQ1. Biophysical Journal, 2013, 104, 210a.	0.5	1

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55	RGK Proteins are not Ras-Like Molecular Switches. A Prespective from Voltage-Dependent Calcium Channels Inhibition. Biophysical Journal, 2013, 104, 461a.	0.5	Ο
56	A Novel Site of Competitive PIP2 and Calmodulin Interaction to KCNQ1 C-Terminus Helix B is Crucial for IKs Channel Activity. Biophysical Journal, 2016, 110, 186a.	0.5	0
57	A Structural Characterization of the Kv7.2-Kv7.3 M Channel Proximal C-Terminus/Cam Complex. Biophysical Journal, 2016, 110, 528a.	0.5	0
58	Direct Interaction Between N and C Termini of α1C Subunit of CaV1.2 L-Type Calcium Channel. Biophysical Journal, 2016, 110, 443a.	0.5	0
59	Phosphate Sensor and Construction of Phosphorylation-Independent Arrestins. , 2017, , 69-82.		0
60	Initial Crystallographic Studies of Visual Arrestin: Insights and Perspectives. , 2017, , 33-42.		0