

# Daphne Atlas

## List of Publications by Year in descending order

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65  
papers

2,543  
citations

172457

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docs citations

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2265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Exocytosis with Few Ca <sup>2+</sup> Channels in Insulin-Secreting Mouse Pancreatic B Cells. <i>Biophysical Journal</i> , 2001, 81, 3308-3323.	0.5	223
2	N-acetylcysteine amide, a novel cell-permeating thiol, restores cellular glutathione and protects human red blood cells from oxidative stress. <i>Free Radical Biology and Medicine</i> , 2005, 38, 136-145.	2.9	189
3	Isolation and partial purification of a clonidine-displacing endogenous brain substance. <i>FEBS Journal</i> , 1984, 144, 287-293.	0.2	136
4	Functional and physical coupling of voltage-sensitive calcium channels with exocytotic proteins: ramifications for the secretion mechanism. <i>Journal of Neurochemistry</i> , 2001, 77, 972-985.	3.9	132
5	A low molecular weight copper chelator crosses the blood-brain barrier and attenuates experimental autoimmune encephalomyelitis. <i>Journal of Neurochemistry</i> , 2004, 89, 1241-1251.	3.9	113
6	Imidazoline binding sites in human placenta: evidence for heterogeneity and a search for physiological function. <i>British Journal of Pharmacology</i> , 1992, 106, 101-108.	5.4	80
7	Synaptotagmin restores kinetic properties of a syntaxin-associated N-type voltage sensitive calcium channel. <i>FEBS Letters</i> , 1997, 404, 203-207.	2.8	71
8	A novel thiol compound, N-acetylcysteine amide, attenuates allergic airway disease by regulating activation of NF- $\kappa$ B and hypoxia-inducible factor-1 $\alpha$ . <i>Experimental and Molecular Medicine</i> , 2007, 39, 756-768.	7.7	70
9	Isolation of an endogenous clonidine-displacing substance from rat brain. <i>FEBS Letters</i> , 1984, 170, 387-390.	2.8	62
10	A novel thiol antioxidant that crosses the blood brain barrier protects dopaminergic neurons in experimental models of Parkinson's disease. <i>European Journal of Neuroscience</i> , 2005, 21, 637-646.	2.6	59
11	Ion interaction at the pore of Lc-type Ca <sup>2+</sup> channel is sufficient to mediate depolarization-induced exocytosis. <i>Journal of Neurochemistry</i> , 2006, 97, 116-127.	3.9	59
12	Direct localisation of $\beta$ -adrenoceptor sites in rat cerebellum by a new fluorescent analogue of propranolol. <i>Nature</i> , 1976, 261, 420-422.	27.8	58
13	The $\alpha_2\beta_1$ subunit of voltage sensitive Ca <sup>2+</sup> -channels is a single transmembrane extracellular protein which is involved in regulated secretion. <i>FEBS Letters</i> , 1996, 379, 15-20.	2.8	56
14	Lipid Modulation of Calcium Flux through CaV2.3 Regulates Acrosome Exocytosis and Fertilization. <i>Developmental Cell</i> , 2014, 28, 310-321.	7.0	54
15	The Voltage-Gated Calcium Channel Functions as the Molecular Switch of Synaptic Transmission. <i>Annual Review of Biochemistry</i> , 2013, 82, 607-635.	11.1	53
16	Tentative identification of $\beta$ -adrenoceptor subunits. <i>Nature</i> , 1978, 272, 370-371.	27.8	50
17	Alleviation of oxidative stress by potent and selective thioredoxin-mimetic peptides. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1355-1367.	2.9	47
18	Low molecular weight thiol amides attenuate MAPK activity and protect primary neurons from A $\beta$ (1-42) toxicity. <i>Brain Research</i> , 2006, 1069, 198-206.	2.2	41

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19	The voltage-gated Ca <sup>2+</sup> channel is the Ca <sup>2+</sup> sensor of fast neurotransmitter release. <i>Cellular and Molecular Neurobiology</i> , 2001, 21, 717-731.	3.3	40
20	The L-type Voltage-Gated Ca <sup>2+</sup> Channel Is the Ca <sup>2+</sup> Sensor Protein of Stimulus-Secretion Coupling in Pancreatic Beta Cells. <i>Biochemistry</i> , 2007, 46, 14461-14467.	2.5	40
21	A Novel Dithiol Amide CB3 Attenuates Allergic Airway Disease through Negative Regulation of p38 Mitogen-activated Protein Kinase. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 183, 1015-1024.	5.6	40
22	Ionic dependence of Ca <sup>2+</sup> channel modulation by syntaxin 1A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3968-3973.	7.1	36
23	Syntaxin 1A Modulates the Voltage-gated L-type Calcium Channel (Cav1.2) in a Cooperative Manner. <i>Journal of Biological Chemistry</i> , 2003, 278, 29231-29239.	3.4	35
24	Î²-Subunit of the voltage-gated Ca <sup>2+</sup> channel Cav1.2 drives signaling to the nucleus via H-Ras. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8624-E8633.	7.1	35
25	Thioredoxin-mimetic peptides (TXM) reverse auranofin induced apoptosis and restore insulin secretion in insulinoma cells. <i>Biochemical Pharmacology</i> , 2013, 85, 977-990.	4.4	33
26	Thioredoxin-Mimetic-Peptides Protect Cognitive Function after Mild Traumatic Brain Injury (mTBI). <i>PLoS ONE</i> , 2016, 11, e0157064.	2.5	33
27	The Voltage-Gated Ca <sup>2+</sup> Channel Is the Ca <sup>2+</sup> Sensor Protein of Secretion. <i>Biochemistry</i> , 2008, 47, 13822-13830.	2.5	32
28	Interaction of Clonidine and Clonidine Analogues with alpha-Adrenergic Receptors of Neuroblastoma x Glioma Hybrid Cells and Rat Brain. Comparison of Ligand Binding with Inhibition of Adenylate Cyclase. <i>FEBS Journal</i> , 1981, 113, 521-529.	0.2	31
29	Conformational Changes Induced in Voltage-gated Calcium Channel Cav1.2 by BayK 8644 or FPL64176 Modify the Kinetics of Secretion Independently of Ca <sup>2+</sup> Influx. <i>Journal of Biological Chemistry</i> , 2010, 285, 6996-7005.	3.4	30
30	Ca <sub>v</sub> 2.1 (P/Q channel) interaction with synaptic proteins is essential for depolarization-evoked release. <i>Channels</i> , 2010, 4, 266-277.	2.8	30
31	Voltage-gated calcium channels function as Ca <sup>2+</sup> -activated signaling receptors. <i>Trends in Biochemical Sciences</i> , 2014, 39, 45-52.	7.5	30
32	Thioredoxin-mimetic peptides as catalysts of S-denitrosylation and anti-nitrosative stress agents. <i>Free Radical Biology and Medicine</i> , 2015, 79, 138-146.	2.9	30
33	Cardiac L-type Ca <sup>2+</sup> channel triggers transmitter release in PC 12 cells. <i>FEBS Letters</i> , 1994, 342, 209-213.	2.8	29
34	The effect of the putative endogenous imidazoline receptor ligand, clonidine-displacing substance, on insulin secretion from rat and human islets of Langerhans. <i>British Journal of Pharmacology</i> , 1997, 120, 926-932.	5.4	28
35	Eighty thousand Î²-adrenoreceptors in a single cell. <i>Nature</i> , 1977, 268, 144-146.	27.8	27
36	Molecular Identification and Reconstitution of Depolarization-Induced Exocytosis Monitored by Membrane Capacitance. <i>Biophysical Journal</i> , 2005, 89, 4364-4373.	0.5	23

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37	Signaling role of the voltage-gated calcium channel as the molecular on/off-switch of secretion. <i>Cellular Signalling</i> , 2010, 22, 1597-1603.	3.6	23
38	N-acetylcysteine amide (AD4) reduces cocaine-induced reinstatement. <i>Psychopharmacology</i> , 2016, 233, 3437-3448.	3.1	23
39	Endoplasmic Reticulum Stress and Unfolded Protein Response in Atm-Deficient Thymocytes and Thymic Lymphoma Cells Are Attributable to Oxidative Stress. <i>Neoplasia</i> , 2008, 10, 160-167.	5.3	22
40	Thioredoxin-mimetic peptides (TXM) inhibit inflammatory pathways associated with high-glucose and oxidative stress. <i>Free Radical Biology and Medicine</i> , 2016, 99, 557-571.	2.9	22
41	Human plasma-derived material with clonidine displacing substance (CDS)-like properties contracts the isolated rat aorta. <i>Autonomic and Autacoid Pharmacology</i> , 1991, 11, 343-351.	0.6	21
42	Analysis of Gene Expression in MOG-Induced Experimental Autoimmune Encephalomyelitis After Treatment with a Novel Brain-Penetrating Antioxidant. <i>Journal of Molecular Neuroscience</i> , 2005, 27, 125-136.	2.3	21
43	Cations Residing at the Selectivity Filter of the Voltage-Gated Ca <sup>2+</sup> -Channel Modify Fusion-Pore Kinetics. <i>Channels</i> , 2007, 1, 377-386.	2.8	20
44	Calcineurin Controls Voltage-Dependent-Inactivation (VDI) of the Normal and Timothy Cardiac Channels. <i>Scientific Reports</i> , 2012, 2, 366.	3.3	20
45	The L-type Voltage-Gated Calcium Channel co-localizes with Syntaxin 1A in nano-clusters at the plasma membrane. <i>Scientific Reports</i> , 2017, 7, 11350.	3.3	19
46	Depolarization-Evoked Secretion Requires Two Vicinal Transmembrane Cysteines of Syntaxin 1A. <i>PLoS ONE</i> , 2007, 2, e1273.	2.5	18
47	Thioredoxin-mimetic peptide CB3 lowers MAPKinase activity in the Zucker rat brain. <i>Redox Biology</i> , 2014, 2, 447-456.	9.0	18
48	A Novel Brain-Targeted Antioxidant (AD4) Attenuates Haloperidol-Induced Abnormal Movement in Rats. <i>Clinical Neuropharmacology</i> , 2005, 28, 285-288.	0.7	17
49	Intra-membrane Signaling Between the Voltage-Gated Ca <sup>2+</sup> -Channel and Cysteine Residues of Syntaxin 1A Coordinates Synchronous Release. <i>Scientific Reports</i> , 2013, 3, 1620.	3.3	17
50	Ultrastructural probing of $\beta_2$ -adrenoreceptors on cell surfaces. <i>FEBS Letters</i> , 1978, 95, 173-176.	2.8	15
51	Voltage-Driven Ca <sup>2+</sup> Binding at the L-Type Ca <sup>2+</sup> Channel Triggers Cardiac Excitation-Contractile Coupling Prior to Ca <sup>2+</sup> Influx. <i>Biochemistry</i> , 2012, 51, 9658-9666.	2.5	15
52	Emerging therapeutic opportunities of novel thiol-amides, NAC-amide (AD4/NACA) and thioredoxin mimetics (TXM-Peptides) for neurodegenerative-related disorders. <i>Free Radical Biology and Medicine</i> , 2021, 176, 120-141.	2.9	15
53	Solubilization and reconstitution of alpha2-adrenergic receptors from rat and calf brain. <i>FEBS Journal</i> , 1984, 138, 573-577.	0.2	14
54	Characterization of Benextramine as an Irreversible alpha-Adrenergic Blocker and as a Blocker of Potassium-Activated Calcium Channels. <i>FEBS Journal</i> , 1983, 133, 539-544.	0.2	13

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55	Neomycin inhibits K <sup>+</sup> - and veratridine-stimulated noradrenaline release in rat brain slices and rat brain synaptosomes. FEBS Letters, 1987, 219, 445-450.	2.8	12
56	Reconstitution of Depolarization and Ca <sup>2+</sup> -Evoked Secretion in Xenopus Oocytes Monitored by Membrane Capacitance. Methods in Molecular Biology, 2008, 440, 269-282.	0.9	12
57	Elevated basal transcription can underlie timothy channel association with autism related disorders. Progress in Neurobiology, 2020, 191, 101820.	5.7	12
58	Fluorescent visualization of $\beta^2$ -adrenergic receptors on cell surfaces. FEBS Letters, 1978, 85, 158-162.	2.8	10
59	An Affinity Label for alpha2-Adrenergic Receptors in Rat Brain. FEBS Journal, 1982, 126, 537-541.	0.2	8
60	DopAmide: Novel, Water-Soluble, Slow-Release L-dihydroxyphenylalanine (L-DOPA) Precursor Moderates L-DOPA Conversion to Dopamine and Generates a Sustained Level of Dopamine at Dopaminergic Neurons. CNS Neuroscience and Therapeutics, 2016, 22, 461-467.	3.9	8
61	Ion occupancy of the channel pore is critical for triggering excitation-transcription (ET) coupling. Cell Calcium, 2019, 84, 102102.	2.4	8
62	Novel anti-apoptotic L-DOPA precursors SuperDopa and SuperDopamide as potential neuroprotective agents for halting/delaying progression of Parkinson's disease. Cell Death and Disease, 2022, 13, 227.	6.3	3
63	Revisiting the molecular basis of synaptic transmission. Progress in Neurobiology, 2022, 216, 102312.	5.7	2
64	Response : Fertilization and Ion Channels. Science, 1994, 263, 988-988.	12.6	0
65	<i>Response</i> : Fertilization and Ion Channels. Science, 1994, 263, 988-988.	12.6	0