Sidney W Whiteheart

List of Publications by Year
in descending order

137 papers	12,926 citations	38742 50 h-index	22832 112 g-index
139 all docs	139 docs citations	139 times ranked	10816 citing authors

#	Article	IF	Citations
1	SNAP receptors implicated in vesicle targeting and fusion. Nature, 1993, 362, 318-324.	27.8	3,046
2	A protein assembly-disassembly pathway in vitro that may correspond to sequential steps of synaptic vesicle docking, activation, and fusion. Cell, 1993, 75, 409-418.	28.9	1,784
3	AAA+ proteins: have engine, will work. Nature Reviews Molecular Cell Biology, 2005, 6, 519-529.	37.0	1,009
4	N-ethylmaleimide-sensitive fusion protein: a trimeric ATPase whose hydrolysis of ATP is required for membrane fusion.. Journal of Cell Biology, 1994, 126, 945-954.	5.2	395
5	Crystal Structure of the Hexamerization Domain of N-ethylmaleimideâ€"Sensitive Fusion Protein. Cell, 1998, 94, 525-536.	28.9	312
6	SNAP family of NSF attachment proteins includes a brain-specific isoform. Nature, 1993, 362, 353-355.	27.8	275
7	TLR Signals Induce Phagosomal MHC-I Delivery from the Endosomal Recycling Compartment to Allow Cross-Presentation. Cell, 2014, 158, 506-521.	28.9	270
8	Conserved arginine residues implicated in ATP hydrolysis, nucleotide-sensing, and inter-subunit interactions in AAA and AAA+ ATPases. Journal of Structural Biology, 2004, 146, 106-112.	2.8	233
9	VAMP8/endobrevin is overexpressed in hyperreactive human platelets: suggested role for platelet microRNA. Journal of Thrombosis and Haemostasis, 2010, 8, 369-378.	3.8	177
10	The SNARE Machinery Is Involved in Apical Plasma Membrane Trafficking in MDCK Cells. Journal of Cell Biology, 1998, 141, 1503-1513.	5.2	169
11	Platelet secretion is kinetically heterogeneous in an agonist-responsive manner. Blood, 2012, 120, 5209-5216.	1.4	166
12	Endobrevin/VAMP-8 Is the Primary v-SNARE for the Platelet Release Reaction. Molecular Biology of the Cell, 2007, 18, 24-33.	2.1	154
13	Platelets protect from septic shock by inhibiting macrophage-dependent inflammation via the cyclooxygenase 1 signalling pathway. Nature Communications, 2013, 4, 2657.	12.8	151
14	SNAP-mediated proteinâ€"protein interactions essential for neurotransmitter release. Nature, 1995, 373, 626-630.	27.8	148
15	Molecular mechanisms of platelet exocytosis: role of SNAP-23 and syntaxin 2 in dense core granule release. Blood, 2000, 95, 921-929.	1.4	148
16	PKCÎ± regulates platelet granule secretion and thrombus formation in mice. Journal of Clinical Investigation, 2009, 119, 399-407.	8.2	136
17	Each Domain of the N-Ethylmaleimide-sensitive Fusion Protein Contributes to Its Transport Activity. Journal of Biological Chemistry, 1995, 270, 29182-29188.	3.4	124
18	B-cellâ€"independent sialylation of IgG. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7207-7212.	7.1	115

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19	Phosphorylation of SNAP-23 Regulates Exocytosis from Mast Cells. Journal of Biological Chemistry, 2005, 280, 6610-6620.	3.4	113
20	A novel role for platelet secretion in angiogenesis: mediating bone marrowâ€"derived cell mobilization and homing. Blood, 2011, 117, 3893-3902.	1.4	113
21	Molecular mechanisms of platelet exocytosis: role of SNAP-23 and syntaxin 2 and 4 in lysosome release. Blood, 2000, 96, 1782-1788.	1.4	111
22	Munc13-4 is a limiting factor in the pathway required for platelet granule release and hemostasis. Blood, 2010, 116, 869-877.	1.4	109
23	Cellular functions of NSF: Not just SNAPs and SNAREs. FEBS Letters, 2007, 581, 2140-2149.	2.8	106
24	Autophagy is induced upon platelet activation and is essential for hemostasis and thrombosis. Blood, 2015, 126, 1224-1233.	1.4	106
25	N-ethylmaleimide sensitive factor (NSF) structure and function. International Review of Cytology, 2001, 207, 71-112.	6.2	103
26	A family with tau-negative frontotemporal dementia and neuronal intranuclear inclusions linked to chromosome 17. Brain, 2006, 129, 853-867.	7.6	102
27	Molecular Mechanisms of Platelet Exocytosis: Requirements for Î±-Granule Release. Biochemical and Biophysical Research Communications, 2000, 267, 875-880.	2.1	99
28	IÎºB kinase phosphorylation of SNAP-23 controls platelet secretion. Blood, 2013, 121, 4567-4574.	1.4	95
29	Crystal structure of the amino-terminal domain of N-ethylmaleimide-sensitive fusion protein. Nature Cell Biology, 1999, 1, 175-182.	10.3	93
30	The platelet release reaction: just when you thought platelet secretion was simple. Current Opinion in Hematology, 2008, 15, 537-541.	2.5	91
31	SNAPs and NSF: general members of the fusion apparatus. Trends in Cell Biology, 1995, 5, 64-68.	7.9	90
32	Syntaxin-11, but not syntaxin-2 or syntaxin-4, is required for platelet secretion. Blood, 2012, 120, 2484-2492.	1.4	90
33	Unraveling the Mechanism of the Vesicle Transport ATPase NSF, the N-Ethylmaleimide-sensitive Factor. Journal of Biological Chemistry, 2001, 276, 21991-21994.	3.4	87
34	Platelet granules: surprise packages. Blood, 2011, 118, 1190-1191.	1.4	85
35	Endobrevin/VAMP-8â€"dependent dense granule release mediates thrombus formation in vivo. Blood, 2009, 114, 1083-1090.	1.4	78
36	Munc18b/STXBP2 is required for platelet secretion. Blood, 2012, 120, 2493-2500.	1.4	76

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37	Mast Cell Degranulation Requires<i>N</i>-Ethylmaleimide-Sensitive Factor-Mediated SNARE Disassembly. Journal of Immunology, 2003, 171, 5345-5352.	0.8	70
38	Platelets Endocytose Viral Particles and Are Activated via TLR (Toll-Like Receptor) Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1635-1650.	2.4	70
39	N-Ethylmaleimide-sensitive Fusion Protein Contains High and Low Affinity ATP-binding Sites That Are Functionally Distinct. Journal of Biological Chemistry, 1997, 272, 26413-26418.	3.4	69
40	Identification of SNAP receptors in rat adipose cell membrane fractions and in SNARE complexes co-immunoprecipitated with epitope-tagged <i>N</i>-ethylmaleimide-sensitive fusion protein. Biochemical Journal, 1996, 320, 429-436.	3.7	68
41	Glutamate receptor antagonists inhibit calpain-mediated cytoskeletal proteolysis in focal cerebral ischemia. Brain Research, 1998, 810, 181-199.	2.2	64
42	SNAP-23 Requirement for Transferrin Recycling in StreptolysinO-permeabilized Madin-Darby Canine Kidney Cells. Journal of Biological Chemistry, 1998, 273, 17732-17741.	3.4	62
43	Type I PDZ Ligands Are Sufficient to Promote Rapid Recycling of G Protein-coupled Receptors Independent of Binding to N-Ethylmaleimide-sensitive Factor*. Journal of Biological Chemistry, 2005, 280, 3305-3313.	3.4	62
44	Arf6 controls platelet spreading and clot retraction via integrin Î±IIbÎ²3 trafficking. Blood, 2016, 127, 1459-1467.	1.4	62
45	Multiple binding proteins suggest diverse functions for the N-ethylmaleimide sensitive factor. Journal of Structural Biology, 2004, 146, 32-43.	2.8	60
46	Distinct Roles for Rap1b Protein in Platelet Secretion and Integrin Î±IIbÎ²3 Outside-in Signaling. Journal of Biological Chemistry, 2011, 286, 39466-39477.	3.4	59
47	Respective contributions of single and compound granule fusion to secretion by activated platelets. Blood, 2016, 128, 2538-2549.	1.4	59
48	A Possible Predocking Attachment Site for N-Ethylmaleimide-sensitive Fusion Protein. Journal of Biological Chemistry, 1996, 271, 18810-18816.	3.4	56
49	Phosphorylation of the N-Ethylmaleimide-sensitive Factor Is Associated with Depolarization-dependent Neurotransmitter Release from Synaptosomes. Journal of Biological Chemistry, 2001, 276, 12174-12181.	3.4	54
50	The nuts and bolts of the platelet release reaction. Platelets, 2017, 28, 129-137.	2.3	52
51	Requirements for the catalytic cycle of the N-ethylmaleimide-Sensitive Factor (NSF). Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 159-171.	4.1	51
52	Platelet secretion and hemostasis require syntaxin-binding protein STXBP5. Journal of Clinical Investigation, 2014, 124, 4517-4528.	8.2	51
53	Arf6 plays an early role in platelet activation by collagen and convulxin. Blood, 2006, 107, 3145-3152.	1.4	50
54	A role for Sec1/Munc18 proteins in platelet exocytosis. Biochemical Journal, 2003, 374, 207-217.	3.7	48

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55	Granule stores from cellubrevin/VAMP-3 null mouse platelets exhibit normal stimulus-induced release. Blood, 2003, 102, 1716-1722.	1.4	47
56	Identification of a Cellubrevin/Vesicle Associated Membrane Protein 3 Homologue in Human Platelets. Blood, 1999, 93, 571-579.	1.4	46
57	Organization of the secretory machinery in the rodent brain: distribution of the t-SNAREs, SNAP-25 and SNAP-23. Brain Research, 1999, 831, 11-24.	2.2	46
58	Influence of serotonin on the kinetics of vesicular release. Brain Research, 2000, 871, 16-28.	2.2	40
59	Intracellular membrane fusion. Trends in Biochemical Sciences, 1991, 16, 334-337.	7.5	39
60	Application of a Saccharomyces cerevisiae Model To Study Requirements for Trafficking of Yersinia pestis YopM in Eucaryotic Cells. Infection and Immunity, 2003, 71, 937-947.	2.2	39
61	The ins and outs of endocytic trafficking in platelet functions. Current Opinion in Hematology, 2017, 24, 467-474.	2.5	39
62	Levetiracetam prevents kindlingâ€induced asymmetric accumulation of hippocampal 7S SNARE complexes. Epilepsia, 2008, 49, 1749-1758.	5.1	38
63	Dissecting the N-Ethylmaleimide-sensitive Factor. Journal of Biological Chemistry, 2010, 285, 761-772.	3.4	38
64	[8] Glycosyltransferase probes. Methods in Enzymology, 1989, 179, 82-95.	1.0	37
65	SNAP-23 Is a Target for Calpain Cleavage in Activated Platelets. Journal of Biological Chemistry, 2002, 277, 37009-37015.	3.4	36
66	Asymmetric accumulation of hippocampal 7S SNARE complexes occurs regardless of kindling paradigm. Epilepsy Research, 2007, 73, 266-274.	1.6	36
67	Granule-mediated release of sphingosine-1-phosphate by activated platelets. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1581-1589.	2.4	36
68	Î±IIbÎ²3 variants defined by next-generation sequencing: Predicting variants likely to cause Glanzmann thrombasthenia. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1898-907.	7.1	36
69	Cellubrevin/vesicle-associated membrane protein-3â€“mediated endocytosis and trafficking regulate platelet functions. Blood, 2017, 130, 2872-2883.	1.4	36
70	The Src Family Kinases and Protein Kinase C Synergize to Mediate Gq-dependent Platelet Activation. Journal of Biological Chemistry, 2012, 287, 41277-41287.	3.4	33
71	Hemostasis vs. homeostasis: Platelets are essential for preserving vascular barrier function in the absence of injury or inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24316-24325.	7.1	33
72	Hexahistidine-tag-specific optical probes for analyses of proteins and their interactions. Analytical Biochemistry, 2010, 399, 237-245.	2.4	30

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73	The effects of SNAP/SNARE complexes on the ATPase of NSF. FEBS Letters, 1998, 435, 211-214.	2.8	28
74	Characterization of a Novel Integrin Binding Protein, VPS33B, Which Is Important for Platelet Activation and In Vivo Thrombosis and Hemostasis. Circulation, 2015, 132, 2334-2344.	1.6	27
75	Surfaces of murine lymphocyte subsets differ in sialylation states and antigen distribution of a major N-linked penultimate saccharide structure. Cellular Immunology, 1990, 125, 337-353.	3.0	25
76	Role of Munc13-4 as a Ca2+-dependent tether during platelet secretion. Biochemical Journal, 2016, 473, 627-639.	3.7	24
77	Sialyltransferases as specific cell surface probes of terminal and penultimate saccharide structures on living cells. Analytical Biochemistry, 1987, 163, 123-135.	2.4	23
78	Uncoupling the ATPase Activity of the N-Ethylmaleimide Sensitive Factor (NSF) from 20S Complex Disassembly. Biochemistry, 2002, 41, 530-536.	2.5	23
79	Intracellular Localization of SNAP-23 to Endosomal Compartments. Biochemical and Biophysical Research Communications, 1999, 255, 340-346.	2.1	22
80	Reduction of vesicle-associated membrane protein 2 expression leads to a kindling-resistant phenotype in a murine model of epilepsy. Neuroscience, 2012, 202, 77-86.	2.3	22
81	N-Ethylmaleimide-Sensitive Factor-dependent Î±-SNAP Release, an Early Event in the Docking/Fusion Process, Is Not Regulated by Rab GTPases. Journal of Biological Chemistry, 1998, 273, 1334-1338.	3.4	21
82	Protein expression in platelets from six species that differ in their open canalicular system. Platelets, 2010, 21, 167-175.	2.3	21
83	Primary Platelet Signaling Cascades and Integrin-mediated Signaling Control ADP-ribosylation Factor (Arf) 6-GTP Levels during Platelet Activation and Aggregation. Journal of Biological Chemistry, 2008, 283, 11995-12003.	3.4	20
84	Nucleotide-dependent conformational changes in the N-Ethylmaleimide Sensitive Factor (NSF) and their potential role in SNARE complex disassembly. Journal of Structural Biology, 2012, 177, 335-343.	2.8	20
85	Alterations in platelet secretion differentially affect thrombosis and hemostasis. Blood Advances, 2018, 2, 2187-2198.	5.2	20
86	Gaf-1, a Î³-SNAP-binding Protein Associated with the Mitochondria. Journal of Biological Chemistry, 2001, 276, 13127-13135.	3.4	19
87	Analyses of Proteins Involved in Vesicular Trafficking in Platelets of Mouse Models of Hermansky Pudlak Syndrome. Molecular Genetics and Metabolism, 1999, 68, 14-23.	1.1	18
88	Accumulation of 7S SNARE complexes in hippocampal synaptosomes from chronically kindled rats. Journal of Neurochemistry, 2003, 84, 621-624.	3.9	18
89	SNARE-dependent membrane fusion initiates Î±-granule matrix decondensation in mouse platelets. Blood Advances, 2018, 2, 2947-2958.	5.2	18
90	In vivo modeling of docosahexaenoic acid and eicosapentaenoic acid-mediated inhibition of both platelet function and accumulation in arterial thrombi. Platelets, 2019, 30, 271-279.	2.3	17

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91	Kindlingâ€induced asymmetric accumulation of hippocampal 7S SNARE complexes correlates with enhanced glutamate release. Epilepsia, 2012, 53, 157-167.	5.1	16
92	Plasma membrane Ca2+-ATPase (PMCA) translocates to filopodia during platelet activation. Thrombosis and Haemostasis, 2004, 91, 325-333.	3.4	15
93	Platelets from Munc18c heterozygous mice exhibit normal stimulus-induced release. Thrombosis and Haemostasis, 2004, 92, 829-837.	3.4	12
94	Autophagy in Platelets. Methods in Molecular Biology, 2019, 1880, 511-528.	0.9	12
95	Platelet Î±â€granule cargo packaging and release are affected by the luminal proteoglycan, serglycin. Journal of Thrombosis and Haemostasis, 2021, 19, 1082-1095.	3.8	12
96	The development of a quantitative enzyme-linked immunosorbent assay to detect human platelet factor 4. Transfusion, 2005, 45, 717-724.	1.6	11
97	Heightened activation of embryonic megakaryocytes causes aneurysms in the developing brain of mice lacking podoplanin. Blood, 2021, 137, 2756-2769.	1.4	11
98	Murine platelets are not regulated by O-linked Î²-N-acetylglucosamine. Archives of Biochemistry and Biophysics, 2008, 474, 220-224.	3.0	10
99	Histidine-tag-directed chromophores for tracer analyses in the analytical ultracentrifuge. Methods, 2011, 54, 31-38.	3.8	10
100	Linking kindling to increased glutamate release in the dentate gyrus of the hippocampus through the STXBP5/tomosynâ€1 gene. Brain and Behavior, 2017, 7, e00795.	2.2	10
101	Immunization of Alpacas (Lama pacos) with Protein Antigens and Production of Antigen-specific Single Domain Antibodies. Journal of Visualized Experiments, 2019, , .	0.3	10
102	Thiosulfinates modulate platelet activation by reaction with surface free sulfhydryls and internal thiol-containing proteins. Platelets, 2007, 18, 481-490.	2.3	9
103	Dynamic cycling of t-SNARE acylation regulates platelet exocytosis. Journal of Biological Chemistry, 2018, 293, 3593-3606.	3.4	9
104	Canalicular system reorganization during mouse platelet activation as revealed by 3D ultrastructural analysis. Platelets, 2021, 32, 97-104.	2.3	9
105	Platelets Protect From Lipopolysaccharide-Induced Lethal Endotoxemia by Inhibiting Macrophage-Dependent Inflammation Via the Cyclooxygenase 1 (COX1) Signaling Pathway. Blood, 2012, 120, 93-93.	1.4	8
106	Modulation of epileptogenesis: A paradigm for the integration of enzyme-based microelectrode arrays and optogenetics. Epilepsy Research, 2020, 159, 106244.	1.6	7
107	Structural analysis of resting mouse platelets by 3D-EM reveals an unexpected variation in Î±-granule shape. Platelets, 2021, 32, 608-617.	2.3	7
108	Platelet activation and its patient-specific consequences. Thrombosis Research, 2008, 122, 435-441.	1.7	6

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109	Editorial: Platelet Secretion. Platelets, 2017, 28, 107-107.	2.3	6
110	Fueling Platelets. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1592-1594.	2.4	6
111	Studies of Secretion Using Permeabilized Platelets. , 2004, 272, 109-120.		5
112	Demonstration of differential quantitative requirements for NSF among multiple vesicle fusion pathways of GLUT4 using a dominant-negative ATPase-deficient NSF. Biochemical and Biophysical Research Communications, 2005, 333, 28-34.	2.1	5
113	Platelet secretion paves the way. Blood, 2015, 126, 433-434.	1.4	3
114	BEACHcombing for Î±-granules. Blood, 2018, 131, 949-950.	1.4	3
115	Identification of a Cellubrevin/Vesicle Associated Membrane Protein 3 Homologue in Human Platelets. Blood, 1999, 93, 571-579.	1.4	3
116	Inflammation Drives Coagulopathies in Sars-Cov-2 Patients. Blood, 2020, 136, 34-35.	1.4	3
117	VAMP3 and VAMP8 Regulate the Development and Functionality of Parasitophorous Vacuoles Housing Leishmania amazonensis. Infection and Immunity, 2022, 90, IAI0018321.	2.2	3
118	DISTINCT ROLES for Rap1b In PLATELET SECRETION and INTEGRIN aIIBb3 OUTSIDE-In SIGNALING. Blood, 2011, 118, 2200-2200.	1.4	2
119	Calcium Ion Chelation Preserves Platelet Function During Cold Storage. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 234-249.	2.4	2
120	Î±-Granules at the BEACH. Blood, 2013, 122, 3247-3248.	1.4	1
121	How Does Protein Disulfide Isomerase Get Into a Thrombus?. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1056-1057.	2.4	1
122	Molecular mechanisms of platelet exocytosis: role of SNAP-23 and syntaxin 2 and 4 in lysosome release. Blood, 2000, 96, 1782-1788.	1.4	1
123	Adaptable system for microdialysis. Journal of Chromatography A, 1982, 240, 497-501.	3.7	0
124	Identification of Oâ€GlcNAcylated Proteins in Human Platelets. FASEB Journal, 2006, 20, A528.	0.5	0
125	The role of Sec1/Munc18 proteins in platelet secretion. FASEB Journal, 2007, 21, A245.	0.5	0
126	Heterogeneity in platelet secretion. FASEB Journal, 2009, 23, 877.2.	0.5	0

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127	Loss of PIKFyve In Murine Platelets Leads to Aberrant Platelet Granule Biogenesis and a Pleomorphic Phenotype with Multiorgan Failure. Blood, 2010, 116, 159-159.	1.4	0
128	Regulation of Iâ€kappaâ€B kinase (IKK) Pathway by CARMA 1â€¢Bclâ€10â€¢MALTâ€1 (CBM) Complex Promotes SNARE Complex Formation and Secretion in Platelets. FASEB Journal, 2012, 26, 986.1.	0.5	0
129	Nucleotideâ€Dependent Conformational Changes in the Nâ€Ethylmaleimide Sensitive Factor (NSF) and their Potential Role in SNARE Complex Disassembly. FASEB Journal, 2012, 26, 751.4.	0.5	0
130	HISTIDINEâ€TAGâ€SPECIFIC OPTICAL PROBES. FASEB Journal, 2012, 26, 578.1.	0.5	0
131	Temporal Secretion of Î±-Granular Products: Insights into the Mechanisms of Release Reaction. Blood, 2012, 120, SCI-36-SCI-36.	1.4	0
132	VAMP Usage In Regulated Platelet Secretion. FASEB Journal, 2013, 27, 591.1.	0.5	0
133	Role of the proteoglycan, serglycin, in platelet exocytosis. FASEB Journal, 2019, 33, 659.2.	0.5	0
134	Does GEC1 Enhance Expression and Forward Trafficking of the Kappa Opioid Receptor (KOR) via Its Ability to Interact with NSF Directly?. Handbook of Experimental Pharmacology, 2020, 271, 83-96.	1.8	0
135	Bleeding Cessation in a Mouse Jugular Vein Puncture Wound Model Is Caused By Extravascular Capping, Not Hole Infill. Blood, 2020, 136, 13-14.	1.4	0
136	Platelet-HIV: interactions and their implications. Platelets, 2022, 33, 208-211.	2.3	0
137	COMManding platelet Î±-granule cargo. Blood, 2022, 139, 809-811.	1.4	0