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	Platelet-HIV: interactions and their implications. Platelets, 2022, 33, 208-211.	2.3	0
2	VAMP3 and VAMP8 Regulate the Development and Functionality of Parasitophorous Vacuoles Housing Leishmania amazonensis. Infection and Immunity, 2022, 90, IAI0018321.	2.2	3
3	COMManding platelet Î±-granule cargo. Blood, 2022, 139, 809-811.	1.4	0
4	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
5	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
6	Heightened activation of embryonic megakaryocytes causes aneurysms in the developing brain of mice lacking podoplanin. Blood, 2021, 137, 2756-2769.	1.4	11
7	Canalicular system reorganization during mouse platelet activation as revealed by 3D ultrastructural analysis. Platelets, 2021, 32, 97-104.	2.3	9
8	Calcium Ion Chelation Preserves Platelet Function During Cold Storage. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 234-249.	2.4	2
9	Modulation of epileptogenesis: A paradigm for the integration of enzyme-based microelectrode arrays and optogenetics. Epilepsy Research, 2020, 159, 106244.	1.6	7
10	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
11	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
12	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
13	Inflammation Drives Coagulopathies in Sars-Cov-2 Patients. Blood, 2020, 136, 34-35.	1.4	3
14	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
15	Immunization of Alpacas (Lama pacos) with Protein Antigens and Production of Antigen-specific Single Domain Antibodies. Journal of Visualized Experiments, 2019, , .	0.3	10
16	Autophagy in Platelets. Methods in Molecular Biology, 2019, 1880, 511-528.	0.9	12
17	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
18	Role of the proteoglycan, serglycin, in platelet exocytosis. FASEB Journal, 2019, 33, 659.2.	0.5	0

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19	Dynamic cycling of t-SNARE acylation regulates platelet exocytosis. Journal of Biological Chemistry, 2018, 293, 3593-3606.	3.4	9
20	BEACHcombing for Î±-granules. Blood, 2018, 131, 949-950.	1.4	3
21	SNARE-dependent membrane fusion initiates Î±-granule matrix decondensation in mouse platelets. Blood Advances, 2018, 2, 2947-2958.	5.2	18
22	Alterations in platelet secretion differentially affect thrombosis and hemostasis. Blood Advances, 2018, 2, 2187-2198.	5.2	20
23	Editorial: Platelet Secretion. Platelets, 2017, 28, 107-107.	2.3	6
24	Cellubrevin/vesicle-associated membrane protein-3â€"mediated endocytosis and trafficking regulate platelet functions. Blood, 2017, 130, 2872-2883.	1.4	36
25	Fueling Platelets. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1592-1594.	2.4	6
26	The ins and outs of endocytic trafficking in platelet functions. Current Opinion in Hematology, 2017, 24, 467-474.	2.5	39
27	The nuts and bolts of the platelet release reaction. Platelets, 2017, 28, 129-137.	2.3	52
28	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
29	How Does Protein Disulfide Isomerase Get Into a Thrombus?. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1056-1057.	2.4	1
30	Respective contributions of single and compound granule fusion to secretion by activated platelets. Blood, 2016, 128, 2538-2549.	1.4	59
31	Arf6 controls platelet spreading and clot retraction via integrin Î±IIbÎ²3 trafficking. Blood, 2016, 127, 1459-1467.	1.4	62
32	Role of Munc13-4 as a Ca2+-dependent tether during platelet secretion. Biochemical Journal, 2016, 473, 627-639.	3.7	24
33	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
34	Platelet secretion paves the way. Blood, 2015, 126, 433-434.	1.4	3
35	Autophagy is induced upon platelet activation and is essential for hemostasis and thrombosis. Blood, 2015, 126, 1224-1233.	1.4	106
36	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

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37	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
38	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
39	TLR Signals Induce Phagosomal MHC-I Delivery from the Endosomal Recycling Compartment to Allow Cross-Presentation. Cell, 2014, 158, 506-521.	28.9	270
40	Platelet secretion and hemostasis require syntaxin-binding protein STXBP5. Journal of Clinical Investigation, 2014, 124, 4517-4528.	8.2	51
41	Platelets protect from septic shock by inhibiting macrophage-dependent inflammation via the cyclooxygenase 1 signalling pathway. Nature Communications, 2013, 4, 2657.	12.8	151
42	IÎºB kinase phosphorylation of SNAP-23 controls platelet secretion. Blood, 2013, 121, 4567-4574.	1.4	95
43	Î±-Granules at the BEACH. Blood, 2013, 122, 3247-3248.	1.4	1
44	VAMP Usage In Regulated Platelet Secretion. FASEB Journal, 2013, 27, 591.1.	0.5	0
45	Syntaxin-11, but not syntaxin-2 or syntaxin-4, is required for platelet secretion. Blood, 2012, 120, 2484-2492.	1.4	90
46	Munc18b/STXBP2 is required for platelet secretion. Blood, 2012, 120, 2493-2500.	1.4	76
47	Platelet secretion is kinetically heterogeneous in an agonist-responsive manner. Blood, 2012, 120, 5209-5216.	1.4	166
48	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
49	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
50	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
51	Kindlingâ€induced asymmetric accumulation of hippocampal 7S SNARE complexes correlates with enhanced glutamate release. Epilepsia, 2012, 53, 157-167.	5.1	16
52	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
53	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
54	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

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55	HISTIDINEâ€TAGâ€SPECIFIC OPTICAL PROBES. FASEB Journal, 2012, 26, 578.1.	0.5	0
56	Temporal Secretion of Î±-Granular Products: Insights into the Mechanisms of Release Reaction. Blood, 2012, 120, SCI-36-SCI-36.	1.4	0
57	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
58	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
59	Histidine-tag-directed chromophores for tracer analyses in the analytical ultracentrifuge. Methods, 2011, 54, 31-38.	3.8	10
60	A novel role for platelet secretion in angiogenesis: mediating bone marrowâ€"derived cell mobilization and homing. Blood, 2011, 117, 3893-3902.	1.4	113
61	Platelet granules: surprise packages. Blood, 2011, 118, 1190-1191.	1.4	85
62	DISTINCT ROLES for Rap1b In PLATELET SECRETION and INTEGRIN aIIBb3 OUTSIDE-In SIGNALING. Blood, 2011, 118, 2200-2200.	1.4	2
63	Munc13-4 is a limiting factor in the pathway required for platelet granule release and hemostasis. Blood, 2010, 116, 869-877.	1.4	109
64	Hexahistidine-tag-specific optical probes for analyses of proteins and their interactions. Analytical Biochemistry, 2010, 399, 237-245.	2.4	30
65	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
66	Dissecting the N-Ethylmaleimide-sensitive Factor. Journal of Biological Chemistry, 2010, 285, 761-772.	3.4	38
67	Protein expression in platelets from six species that differ in their open canalicular system. Platelets, 2010, 21, 167-175.	2.3	21
68	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
69	Endobrevin/VAMP-8â€"dependent dense granule release mediates thrombus formation in vivo. Blood, 2009, 114, 1083-1090.	1.4	78
70	PKCÎ± regulates platelet granule secretion and thrombus formation in mice. Journal of Clinical Investigation, 2009, 119, 399-407.	8.2	136
71	Heterogeneity in platelet secretion. FASEB Journal, 2009, 23, 877.2.	0.5	0
72	Levetiracetam prevents kindlingâ€induced asymmetric accumulation of hippocampal 7S SNARE complexes. Epilepsia, 2008, 49, 1749-1758.	5.1	38

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73	Murine platelets are not regulated by O-linked Î²-N-acetylglucosamine. Archives of Biochemistry and Biophysics, 2008, 474, 220-224.	3.0	10
74	Platelet activation and its patient-specific consequences. Thrombosis Research, 2008, 122, 435-441.	1.7	6
75	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
76	The platelet release reaction: just when you thought platelet secretion was simple. Current Opinion in Hematology, 2008, 15, 537-541.	2.5	91
77	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
78	Cellular functions of NSF: Not just SNAPs and SNAREs. FEBS Letters, 2007, 581, 2140-2149.	2.8	106
79	Thiosulfinates modulate platelet activation by reaction with surface free sulfhydryls and internal thiol-containing proteins. Platelets, 2007, 18, 481-490.	2.3	9
80	Asymmetric accumulation of hippocampal 7S SNARE complexes occurs regardless of kindling paradigm. Epilepsy Research, 2007, 73, 266-274.	1.6	36
81	The role of Sec1/Munc18 proteins in platelet secretion. FASEB Journal, 2007, 21, A245.	0.5	0
82	Arf6 plays an early role in platelet activation by collagen and convulxin. Blood, 2006, 107, 3145-3152.	1.4	50
83	A family with tau-negative frontotemporal dementia and neuronal intranuclear inclusions linked to chromosome 17. Brain, 2006, 129, 853-867.	7.6	102
84	Identification of Oâ€GlcNAcylated Proteins in Human Platelets. FASEB Journal, 2006, 20, A528.	0.5	0
85	AAA+ proteins: have engine, will work. Nature Reviews Molecular Cell Biology, 2005, 6, 519-529.	37.0	1,009
86	Phosphorylation of SNAP-23 Regulates Exocytosis from Mast Cells. Journal of Biological Chemistry, 2005, 280, 6610-6620.	3.4	113
87	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
88	The development of a quantitative enzyme-linked immunosorbent assay to detect human platelet factor 4. Transfusion, 2005, 45, 717-724.	1.6	11
89	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
90	Plasma membrane Ca2+-ATPase (PMCA) translocates to filopodia during platelet activation. Thrombosis and Haemostasis, 2004, 91, 325-333.	3.4	15

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91	Platelets from Munc18c heterozygous mice exhibit normal stimulus-induced release. Thrombosis and Haemostasis, 2004, 92, 829-837.	3.4	12
92	Studies of Secretion Using Permeabilized Platelets. , 2004, 272, 109-120.		5
93	Multiple binding proteins suggest diverse functions for the N-ethylmaleimide sensitive factor. Journal of Structural Biology, 2004, 146, 32-43.	2.8	60
94	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
95	Accumulation of 7S SNARE complexes in hippocampal synaptosomes from chronically kindled rats. Journal of Neurochemistry, 2003, 84, 621-624.	3.9	18
96	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
97	Mast Cell Degranulation Requires<i>N</i>-Ethylmaleimide-Sensitive Factor-Mediated SNARE Disassembly. Journal of Immunology, 2003, 171, 5345-5352.	0.8	70
98	Granule stores from cellubrevin/VAMP-3 null mouse platelets exhibit normal stimulus-induced release. Blood, 2003, 102, 1716-1722.	1.4	47
99	A role for Sec1/Munc18 proteins in platelet exocytosis. Biochemical Journal, 2003, 374, 207-217.	3.7	48
100	SNAP-23 Is a Target for Calpain Cleavage in Activated Platelets. Journal of Biological Chemistry, 2002, 277, 37009-37015.	3.4	36
101	Uncoupling the ATPase Activity of the N-Ethylmaleimide Sensitive Factor (NSF) from 20S Complex Disassembly. Biochemistry, 2002, 41, 530-536.	2.5	23
102	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
103	Gaf-1, a Î³-SNAP-binding Protein Associated with the Mitochondria. Journal of Biological Chemistry, 2001, 276, 13127-13135.	3.4	19
104	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
105	N-ethylmaleimide sensitive factor (NSF) structure and function. International Review of Cytology, 2001, 207, 71-112.	6.2	103
106	Influence of serotonin on the kinetics of vesicular release. Brain Research, 2000, 871, 16-28.	2.2	40
107	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
108	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

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109	Molecular Mechanisms of Platelet Exocytosis: Requirements for Î±-Granule Release. Biochemical and Biophysical Research Communications, 2000, 267, 875-880.	2.1	99
110	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
111	Identification of a Cellubrevin/Vesicle Associated Membrane Protein 3 Homologue in Human Platelets. Blood, 1999, 93, 571-579.	1.4	46
112	Crystal structure of the amino-terminal domain of N-ethylmaleimide-sensitive fusion protein. Nature Cell Biology, 1999, 1, 175-182.	10.3	93
113	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
114	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
115	Intracellular Localization of SNAP-23 to Endosomal Compartments. Biochemical and Biophysical Research Communications, 1999, 255, 340-346.	2.1	22
116	Identification of a Cellubrevin/Vesicle Associated Membrane Protein 3 Homologue in Human Platelets. Blood, 1999, 93, 571-579.	1.4	3
117	Glutamate receptor antagonists inhibit calpain-mediated cytoskeletal proteolysis in focal cerebral ischemia. Brain Research, 1998, 810, 181-199.	2.2	64
118	Crystal Structure of the Hexamerization Domain of N-ethylmaleimideâ€"Sensitive Fusion Protein. Cell, 1998, 94, 525-536.	28.9	312
119	The effects of SNAP/SNARE complexes on the ATPase of NSF. FEBS Letters, 1998, 435, 211-214.	2.8	28
120	The SNARE Machinery Is Involved in Apical Plasma Membrane Trafficking in MDCK Cells. Journal of Cell Biology, 1998, 141, 1503-1513.	5.2	169
121	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
122	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
123	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
124	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
125	A Possible Predocking Attachment Site for N-Ethylmaleimide-sensitive Fusion Protein. Journal of Biological Chemistry, 1996, 271, 18810-18816.	3.4	56
126	SNAPs and NSF: general members of the fusion apparatus. Trends in Cell Biology, 1995, 5, 64-68.	7.9	90

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127	SNAP-mediated proteinâ€"protein interactions essential for neurotransmitter release. Nature, 1995, 373, 626-630.	27.8	148
128	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
129	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
130	SNAP family of NSF attachment proteins includes a brain-specific isoform. Nature, 1993, 362, 353-355.	27.8	275
131	SNAP receptors implicated in vesicle targeting and fusion. Nature, 1993, 362, 318-324.	27.8	3,046
132	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
133	Intracellular membrane fusion. Trends in Biochemical Sciences, 1991, 16, 334-337.	7.5	39
134	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
135	[8] Glycosyltransferase probes. Methods in Enzymology, 1989, 179, 82-95.	1.0	37
136	Sialyltransferases as specific cell surface probes of terminal and penultimate saccharide structures on living cells. Analytical Biochemistry, 1987, 163, 123-135.	2.4	23
137	Adaptable system for microdialysis. Journal of Chromatography A, 1982, 240, 497-501.	3.7	0