Wolfgang Bergmeier

List of Publications by Year
in descending order

98 papers	4,650 citations	126907 33 h-index	98798 67 g-index

112 all docs	112 docs citations	112 times ranked	5029 citing authors

#	Article	IF	Citations
1	CalDAG-GEFI integrates signaling for platelet aggregation and thrombus formation. Nature Medicine, 2004, 10, 982-986.	30.7	348
2	Long-Term Antithrombotic Protection by in Vivo Depletion of Platelet Glycoprotein VI in Mice. Journal of Experimental Medicine, 2001, 193, 459-470.	8.5	321
3	Identification of critical antigen-specific mechanisms in the development of immune thrombocytopenic purpura in mice. Blood, 2000, 96, 2520-2527.	1.4	258
4	Tumor Necrosis Factor-Î±â€“Converting Enzyme (ADAM17) Mediates GPIbÎ± Shedding From Platelets In Vitro and In Vivo. Circulation Research, 2004, 95, 677-683.	4.5	224
5	The role of platelet adhesion receptor GPIbÂ far exceeds that of its main ligand, von Willebrand factor, in arterial thrombosis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16900-16905.	7.1	213
6	Platelet ITAM signaling is critical for vascular integrity in inflammation. Journal of Clinical Investigation, 2013, 123, 908-16.	8.2	194
7	Therapeutic strategies for thrombosis: new targets and approaches. Nature Reviews Drug Discovery, 2020, 19, 333-352.	46.4	188
8	Mice lacking the signaling molecule CalDAG-GEFI represent a model for leukocyte adhesion deficiency type III. Journal of Clinical Investigation, 2007, 117, 1699-1707.	8.2	170
9	Integrins Form an Expanding Diffusional Barrier that Coordinates Phagocytosis. Cell, 2016, 164, 128-140.	28.9	163
10	Flow cytometric detection of activated mouse integrin ?IIb?3 with a novel monoclonal antibody. Cytometry, 2002, 48, 80-86.	1.8	136
11	CalDAG-GEFI is at the nexus of calcium-dependent platelet activation. Blood, 2009, 114, 2506-2514.	1.4	134
12	CalDAG-GEFI and protein kinase C represent alternative pathways leading to activation of integrin Î±IIbÎ²3 in platelets. Blood, 2008, 112, 1696-1703.	1.4	129
13	Extracellular Matrix Proteins in Hemostasis and Thrombosis. Cold Spring Harbor Perspectives in Biology, 2012, 4, a005132-a005132.	5.5	124
14	RASA3 is a critical inhibitor of RAP1-dependent platelet activation. Journal of Clinical Investigation, 2015, 125, 1419-1432.	8.2	113
15	Emerging roles of store-operated Ca²⁺entry through STIM and ORAI proteins in immunity, hemostasis and cancer. Channels, 2013, 7, 379-391.	2.8	105
16	GPVI down-regulation in murine platelets through metalloproteinase-dependent shedding. Thrombosis and Haemostasis, 2004, 91, 951-958.	3.4	79
17	Rap1 and its effector RIAM are required for lymphocyte trafficking. Blood, 2015, 126, 2695-2703.	1.4	78
18	Rhodocytin (Aggretin) Activates Platelets Lacking Î±2Î²1 Integrin, Glycoprotein VI, and the Ligand-binding Domain of Glycoprotein IbÎ±. Journal of Biological Chemistry, 2001, 276, 25121-25126.	3.4	76

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19	Glycoprotein IbÎ± and von Willebrand factor in primary platelet adhesion and thrombus formation: Lessons from mutant mice. Thrombosis and Haemostasis, 2008, 99, 264-270.	3.4	75
20	Glanzmann thrombasthenia: genetic basis and clinical correlates. Haematologica, 2020, 105, 888-894.	3.5	75
21	The kinetics of Î±IIbÎ²3 activation determines the size and stability of thrombi in mice: implications for antiplatelet therapy. Blood, 2011, 117, 1005-1013.	1.4	71
22	RAP1-GTPase signaling and platelet function. Journal of Molecular Medicine, 2016, 94, 13-19.	3.9	69
23	Novel mutations in RASGRP2, which encodes CalDAG-GEFI, abrogate Rap1 activation, causing platelet dysfunction. Blood, 2016, 128, 1282-1289.	1.4	68
24	Thrombo-Inflammation in Cardiovascular Disease: An Expert Consensus Document from the Third Maastricht Consensus Conference on Thrombosis. Thrombosis and Haemostasis, 2020, 120, 538-564.	3.4	64
25	Platelet Inhibitors Reduce Rupture in a Mouse Model of Established Abdominal Aortic Aneurysm. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2032-2041.	2.4	61
26	Rap1-Rac1 Circuits Potentiate Platelet Activation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 434-441.	2.4	60
27	Platelet Immunoreceptor Tyrosine-Based Activation Motif (ITAM) Signaling and Vascular Integrity. Circulation Research, 2014, 114, 1174-1184.	4.5	58
28	Talin-1 is the principal platelet Rap1 effector of integrin activation. Blood, 2020, 136, 1180-1190.	1.4	52
29	Red blood cells modulate structure and dynamics of venous clot formation in sickle cell disease. Blood, 2019, 133, 2529-2541.	1.4	51
30	Functional redundancy between RAP1 isoforms in murine platelet production and function. Blood, 2018, 132, 1951-1962.	1.4	43
31	Platelet Signaling Pathways and New Inhibitors. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, e28-e35.	2.4	41
32	A talin mutant that impairs talin-integrin binding in platelets decelerates Î±IIbÎ²3 activation without pathological bleeding. Blood, 2014, 123, 2722-2731.	1.4	40
33	The Phosphatidylinositol 3,4,5-trisphosphate (PI(3,4,5)P3) Binder Rasa3 Regulates Phosphoinositide 3-kinase (PI3K)-dependent Integrin Î±IIbÎ²3 Outside-in Signaling. Journal of Biological Chemistry, 2017, 292, 1691-1704.	3.4	36
34	Synthesis and dephosphorylation of MARCKS in the late stages of megakaryocyte maturation drive proplatelet formation. Blood, 2016, 127, 1468-1480.	1.4	34
35	RAP GTPases and platelet integrin signaling. Platelets, 2019, 30, 41-47.	2.3	34
36	Deletion of the Arp2/3 complex in megakaryocytes leads to microthrombocytopenia in mice. Blood Advances, 2017, 1, 1398-1408.	5.2	33

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37	Platelets trigger perivascular mast cell degranulation to cause inflammatory responses and tissue injury. Science Advances, 2020, 6, eaay6314.	10.3	32
38	Rap1 binding to the talin 1 F0 domain makes a minimal contribution to murine platelet GPIIb-IIIa activation. Blood Advances, 2018, 2, 2358-2368.	5.2	30
39	Megakaryocytes use in vivo podosomeâ€like structures working collectively to penetrate the endothelial barrier of bone marrow sinusoids. Journal of Thrombosis and Haemostasis, 2020, 18, 2987-3001.	3.8	28
40	Development of Optimized Tissue-Factor-Targeted Peptide Amphiphile Nanofibers to Slow Noncompressible Torso Hemorrhage. ACS Nano, 2020, 14, 6649-6662.	14.6	28
41	Identification of two novel mutations in RASGRP2 affecting platelet CalDAG-GEFI expression and function in patients with bleeding diathesis. Platelets, 2018, 29, 192-195.	2.3	26
42	New insights into cytoskeletal remodeling during platelet production. Journal of Thrombosis and Haemostasis, 2019, 17, 1430-1439.	3.8	26
43	Anticoagulant Protein S Targets the Factor IXa Heparin-Binding Exosite to Prevent Thrombosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 816-828.	2.4	23
44	Desialylation of <i>O</i>-glycans on glycoprotein IbÎ± drives receptor signaling and platelet clearance. Haematologica, 2020, 106, 220-229.	3.5	22
45	STIM1 R304W causes muscle degeneration and impaired platelet activation in mice. Cell Calcium, 2018, 76, 87-100.	2.4	21
46	The Role of Platelet Adhesion Receptor GPIb Î± Far Exceeds That of Its Main Ligand von Willebrand Factor in Arterial Thrombosis.. Blood, 2006, 108, 1797-1797.	1.4	21
47	CalDAG-GEFI Deficiency Reduces Atherosclerotic Lesion Development in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 792-799.	2.4	20
48	Acquired platelet disorders. Thrombosis Research, 2016, 141, S73-S75.	1.7	20
49	Effects of ibrutinib treatment on murine platelet function during inflammation and in primary hemostasis. Haematologica, 2017, 102, e89-e92.	3.5	20
50	Marked bleeding diathesis in patients with platelet dysfunction due to a novel mutation in RASGRP2, encoding CalDAG-GEFI (p.Gly305Asp). Platelets, 2018, 29, 84-86.	2.3	20
51	Chemoproteomic Discovery of AADACL1 as a Regulator of Human Platelet Activation. Chemistry and Biology, 2013, 20, 1125-1134.	6.0	19
52	Specifications of the variant curation guidelines for ITGA2B/ITGB3: ClinGen Platelet Disorder Variant Curation Panel. Blood Advances, 2021, 5, 414-431.	5.2	19
53	Mice Expressing Low Levels of CalDAG-GEFI Exhibit Markedly Impaired Platelet Activation With Minor Impact on Hemostasis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1838-1846.	2.4	18
54	Platelets at the vascular interface. Research and Practice in Thrombosis and Haemostasis, 2018, 2, 27-33.	2.3	17

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55	Calcium-induced structural rearrangements release autoinhibition in the Rap-GEF CalDAG-GEFI. Journal of Biological Chemistry, 2018, 293, 8521-8529.	3.4	16
56	RAS P21 Protein Activator 3 (RASA3) Specifically Promotes Pathogenic T Helper 17 Cell Generation by Repressing T-Helper-2-Cell-Biased Programs. Immunity, 2018, 49, 886-898.e5.	14.3	15
57	Phenotype analysis and clinical management in a large family with a novel truncating mutation in RASGRP2, the CalDAGâ€GEFI encoding gene. Research and Practice in Thrombosis and Haemostasis, 2017, 1, 128-133.	2.3	14
58	Impaired hemostatic activity of healthy transfused platelets in inherited and acquired platelet disorders: Mechanisms and implications. Science Translational Medicine, 2019, 11, .	12.4	14
59	Adoptive transfer method to study platelet function in mouse models of disease. Thrombosis Research, 2014, 133, S3-S5.	1.7	13
60	Two novel, putative mechanisms of action for citalopram-induced platelet inhibition. Scientific Reports, 2018, 8, 16677.	3.3	13
61	STIM1 Deficiency Results In Impaired Platelet Procoagulant Activity and Protection From Arterial Thrombosis. Blood, 2010, 116, 485-485.	1.4	13
62	Deletion of platelet CLEC-2 decreases GPIba-mediated integrin aIIbb3 activation and decreases thrombosis in TTP. Blood, 2022, , .	1.4	13
63	Both G proteinâ€“coupled and immunoreceptor tyrosine-based activation motif receptors mediate venous thrombosis in mice. Blood, 2022, 139, 3194-3203.	1.4	13
64	Hypofibrinogenemia with preserved hemostasis andÂprotection from thrombosis in mice with an FgaÂtruncation mutation. Blood, 2022, 139, 1374-1388.	1.4	12
65	Heightened activation of embryonic megakaryocytes causes aneurysms in the developing brain of mice lacking podoplanin. Blood, 2021, 137, 2756-2769.	1.4	11
66	Fibrin(ogen) engagement of S. aureus promotes the host antimicrobial response and suppression of microbe dissemination following peritoneal infection. PLoS Pathogens, 2022, 18, e1010227.	4.7	10
67	Genetic deletion of platelet PAR4 results in reduced thrombosis and impaired hemostatic plug stability. Journal of Thrombosis and Haemostasis, 2022, 20, 422-433.	3.8	9
68	Ether lipid metabolism by AADACL1 regulates platelet function and thrombosis. Blood Advances, 2019, 3, 3818-3828.	5.2	7
69	Novel Mouse Model for Studying Hemostatic Function of Human Platelets. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1891-1904.	2.4	7
70	Subcellular localization of Rap1 GTPase activator CalDAGâ€GEFI is orchestrated by interaction of its atypical C1 domain with membrane phosphoinositides. Journal of Thrombosis and Haemostasis, 2020, 18, 693-705.	3.8	6
71	Platelet transfusion for patients with platelet dysfunction: effectiveness, mechanisms, and unanswered questions. Current Opinion in Hematology, 2020, 27, 378-385.	2.5	6
72	Rasa3 deficiency minimally affects thrombopoiesis but promotes severe thrombocytopenia due to integrin-dependent platelet clearance. JCI Insight, 2022, 7, .	5.0	6

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73	Advances in Clinical and Basic Science of Coagulation: Illustrated abstracts of the 9th Chapel Hill Symposium on Hemostasis. Research and Practice in Thrombosis and Haemostasis, 2018, 2, 407-428.	2.3	5
74	Platelet Signal Transduction. , 2019, , 329-348.		5
75	Metalloproteinase Inhibitors Increase the Survival of Long-Term Refrigerated Platelets in Mice.. Blood, 2007, 110, 419-419.	1.4	3
76	Fast clearance of platelets in a commonly used mouse model for GPIbÎ± is impeded by an antiâ€GPIbÎ² antibody derivative. Journal of Thrombosis and Haemostasis, 2022, 20, 1451-1463.	3.8	3
77	Small GTPases in megakaryocyte and platelet biology. Platelets, 2019, 30, 7-8.	2.3	2
78	The Parallel Signaling Pathways Of Phosphatidylserine (PS) Exposure Downstream Of Platelet FcÎ³RIIa. Blood, 2013, 122, 3514-3514.	1.4	2
79	Platelet signaling - blood's great balancing act. Oncotarget, 2015, 6, 19922-19923.	1.8	2
80	Phenotype Analysis and Clinical Management in a Large Family with a Novel Truncating Mutation in RASGRP2, the Caldag-GEFI Encoding Gene. Blood, 2016, 128, 3713-3713.	1.4	1
81	Gamma Prime Fibrinogen Does Not Cause Arterial Thrombosis. Blood, 2013, 122, 1092-1092.	1.4	1
82	GPIbÎ± Is Essential for Platelet Adhesion during Thrombus Formation: Studies with Mutant Mice Deficient in the Extracellular Domain of GPIbÎ±.. Blood, 2004, 104, 3659-3659.	1.4	0
83	Differential Changes in Platelet VWF Receptor Following Refrigeration for Short or Long Periods.. Blood, 2005, 106, 3564-3564.	1.4	0
84	Mice Lacking the Signaling Molecule, CalDAG-GEFI, Represent a Mouse Model for Leukocyte Adhesion Deficiency Type III.. Blood, 2006, 108, 674-674.	1.4	0
85	CalDAG-GEFI and Protein Kinase C (PKC) Represent Alternative Pathways Leading to Activation of Integrin Î±IIbÎ²3 in Platelets.. Blood, 2007, 110, 3646-3646.	1.4	0
86	Revised Model for Platelet Adhesion to Collagen.. Blood, 2009, 114, 2999-2999.	1.4	0
87	Transfection of Human Platelets Down-Regulates Endogenous mRNA.. Blood, 2009, 114, 4026-4026.	1.4	0
88	The Signaling Molecule CalDAG-GEFI Represents a Novel Target for Antithrombotic Therapy.. Blood, 2009, 114, 1077-1077.	1.4	0
89	Critical Role of CalDAG-GEFI In FCÎ³RIIa-Dependent Platelet Activation and Thrombosis. Blood, 2010, 116, 3196-3196.	1.4	0
90	Formation of Procoagulant Platelets in Heparin-Induced Thrombocytopenia (HIT) Follows a Unique Signaling Pathway. Blood, 2011, 118, 197-197.	1.4	0

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91	Inhibition of Sialic Acid Loss Greatly Improves Survival of Refrigerated Platelets. Blood, 2011, 118, 1133-1133.	1.4	0
92	Abstract 53: Immunoreceptor Tyrosine Activation Motif Signaling in Platelets Is Critical for the Maintenance of Vascular Integrity During Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, .	2.4	0
93	Identification of AADACL1 As a Novel Regulator of Human Platelets Via Chemoproteomics. Blood, 2012, 120, 381-381.	1.4	0
94	Desensitization of the P2Y 1 receptor in platelets. FASEB Journal, 2013, 27, 1172.3.	0.5	0
95	Ibrutinib-Treated Platelets Secure Vascular Integrity in Inflammation. Blood, 2015, 126, 2235-2235.	1.4	0
96	The Small Gtpase Rap1 in Platelets Is Critical for Arterial but Not Venous Thrombosis in Mice. Blood, 2021, 138, 2131-2131.	1.4	0
97	Impact of Platelet Count on Bleeding in the Setting of Anti-Platelet Therapy. Blood, 2020, 136, 18-18.	1.4	0
98	Abstract 130: Platelet Rap1 Signaling, Mediated by CalDAG-GEFI and P2Y12, Contributes to Atherosclerotic Lesion Development in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, .	2.4	0