

# Carl P Blobel

## List of Publications by Year in descending order

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112  
papers

13,911  
citations

20817

60  
h-index

26613

107  
g-index

114  
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114  
docs citations

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times ranked

11352  
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#	ARTICLE	IF	CITATIONS
1	ADAMs and ADAMTSs. , 2022, , 568-573.		3
2	ADAMs Regulate Cell-Cell Interactions by Controlling the Function of the EGF-Receptor, TNF $\hat{\pm}$ and Notch. , 2022, , .		0
3	ADAM10 and ADAM17 promote SARS-CoV $\hat{2}$ cell entry and spike protein-mediated lung cell fusion. EMBO Reports, 2022, 23, e54305.	4.5	57
4	Targeted truncation of the ADAM17 cytoplasmic domain in mice results in protein destabilization and a hypomorphic phenotype. Journal of Biological Chemistry, 2021, 296, 100733.	3.4	9
5	Analysis of the Conditions That Affect the Selective Processing of Endogenous Notch1 by ADAM10 and ADAM17. International Journal of Molecular Sciences, 2021, 22, 1846.	4.1	10
6	The pseudoprotease iRhom1 controls ectodomain shedding of membrane proteins in the nervous system. FASEB Journal, 2021, 35, e21962.	0.5	5
7	Role of iRhoms 1 and 2 in Endochondral Ossification. International Journal of Molecular Sciences, 2020, 21, 8732.	4.1	4
8	Endothelial deletion of ADAM10, a key regulator of Notch signaling, causes impaired decidualization and reduced fertility in female mice. Angiogenesis, 2020, 23, 443-458.	7.2	15
9	ADAM17 stabilizes its interacting partner inactive Rhomboid 2 (iRhom2) but not inactive Rhomboid 1 (iRhom1). Journal of Biological Chemistry, 2020, 295, 4350-4358.	3.4	12
10	Substrate-selective protein ectodomain shedding by ADAM17 and iRhom2 depends on their juxtamembrane and transmembrane domains. FASEB Journal, 2020, 34, 4956-4969.	0.5	22
11	The Threshold Effect: Lipopolysaccharide-Induced Inflammatory Responses in Primary Macrophages Are Differentially Regulated in an iRhom2-Dependent Manner. Frontiers in Cellular and Infection Microbiology, 2020, 10, 620392.	3.9	1
12	ADAM10 controls the differentiation of the coronary arterial endothelium. Angiogenesis, 2019, 22, 237-250.	7.2	36
13	Glomerular endothelial cell maturation depends on ADAM10, a key regulator of Notch signaling. Angiogenesis, 2018, 21, 335-347.	7.2	31
14	Macrocytic $\hat{\pm}$ -defensins suppress tumor necrosis factor- $\hat{\pm}$ (TNF- $\hat{\pm}$ ) shedding by inhibition of TNF- $\hat{\pm}$ -converting enzyme. Journal of Biological Chemistry, 2018, 293, 2725-2734.	3.4	28
15	The xenoestrogens biphenol-A and nonylphenol differentially regulate metalloprotease-mediated shedding of EGFR ligands. Journal of Cellular Physiology, 2018, 233, 2247-2256.	4.1	16
16	Blood-induced bone loss in murine hemophilic arthropathy is prevented by blocking the iRhom2/ADAM17/TNF- $\hat{\pm}$ pathway. Blood, 2018, 132, 1064-1074.	1.4	38
17	Intriguing Roles for Endothelial ADAM10/Notch Signaling in the Development of Organ-Specific Vascular Beds. Physiological Reviews, 2018, 98, 2025-2061.	28.8	37
18	The metalloprotease ADAM10 (a disintegrin and metalloprotease 10) undergoes rapid, postlysis autocatalytic degradation. FASEB Journal, 2018, 32, 3560-3573.	0.5	26

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19	A protective Langerhans cell-keratinocyte axis that is dysfunctional in photosensitivity. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	48
20	iRhom2 promotes lupus nephritis through TNF- $\alpha$ and EGFR signaling. <i>Journal of Clinical Investigation</i> , 2018, 128, 1397-1412.	8.2	66
21	Structural modeling defines transmembrane residues in ADAM17 that are crucial for Rhd2/ADAM17-dependent proteolysis. <i>Journal of Cell Science</i> , 2017, 130, 868-878.	2.0	34
22	Characterization of the catalytic properties of the membrane-anchored metalloproteinase ADAM9 in cell-based assays. <i>Biochemical Journal</i> , 2017, 474, 1467-1479.	3.7	16
23	ADAM10-Dependent Signaling Through Notch1 and Notch4 Controls Development of Organ-Specific Vascular Beds. <i>Circulation Research</i> , 2016, 119, 519-531.	4.5	39
24	iRhom2 regulates CSF1R cell surface expression and non-steady state myelopoiesis in mice. <i>European Journal of Immunology</i> , 2016, 46, 2737-2748.	2.9	14
25	Evidence for cadherin-11 cleavage in the synovium and partial characterization of its mechanism. <i>Arthritis Research and Therapy</i> , 2015, 17, 126.	3.5	18
26	The Functional Maturation of A Disintegrin and Metalloproteinase (ADAM) 9, 10, and 17 Requires Processing at a Newly Identified Proprotein Convertase (PC) Cleavage Site. <i>Journal of Biological Chemistry</i> , 2015, 290, 12135-12146.	3.4	59
27	The Cytoplasmic Domain of A Disintegrin and Metalloproteinase 10 (ADAM10) Regulates Its Constitutive Activity but Is Dispensable for Stimulated ADAM10-dependent Shedding. <i>Journal of Biological Chemistry</i> , 2015, 290, 7416-7425.	3.4	34
28	Blood-Induced Arthropathy in Hemophilia: Mechanisms and Heterogeneity. <i>Seminars in Thrombosis and Hemostasis</i> , 2015, 41, 832-837.	2.7	31
29	iRhoms 1 and 2 are essential upstream regulators of ADAM17-dependent EGFR signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6080-6085.	7.1	121
30	iRhoms in the brain - a new frontier?. <i>Cell Cycle</i> , 2015, 14, 3003-3004.	2.6	10
31	Deletions in the cytoplasmic domain of iRhom1 and iRhom2 promote shedding of the TNF receptor by the protease ADAM17. <i>Science Signaling</i> , 2015, 8, ra109.	3.6	60
32	Lack of ADAM10 in endothelial cells affects osteoclasts at the chondro-osseous junction. <i>Journal of Orthopaedic Research</i> , 2014, 32, 224-230.	2.3	10
33	Characterization of Oxygen-Induced Retinopathy in Mice Carrying an Inactivating Point Mutation in the Catalytic Site of ADAM15. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 6774-6782.	3.3	10
34	A Murine Model for Retinopathy of Prematurity Identifies Endothelial Cell Proliferation as a Potential Mechanism for Plus Disease. , 2013, 54, 5294.		21
35	Epidermal ADAM17 Is Dispensable for Notch Activation. <i>Journal of Investigative Dermatology</i> , 2013, 133, 2286-2288.	0.7	24
36	ADAM12 is expressed in the tumour vasculature and mediates ectodomain shedding of several membrane-anchored endothelial proteins. <i>Biochemical Journal</i> , 2013, 452, 97-109.	3.7	48

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37	iRhom2 controls the substrate selectivity of stimulated ADAM17-dependent ectodomain shedding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11433-11438.	7.1	138
38	ADAM17 Controls Endochondral Ossification by Regulating Terminal Differentiation of Chondrocytes. <i>Molecular and Cellular Biology</i> , 2013, 33, 3077-3090.	2.3	47
39	iRHOM2 is a critical pathogenic mediator of inflammatory arthritis. <i>Journal of Clinical Investigation</i> , 2013, 123, 928-32.	8.2	129
40	Epidermal ADAM17 maintains the skin barrier by regulating EGFR ligand-dependent terminal keratinocyte differentiation. <i>Journal of Experimental Medicine</i> , 2012, 209, 1105-1119.	8.5	161
41	iRhom2 Regulation of TACE Controls TNF-Mediated Protection Against <i>Listeria</i> and Responses to LPS. <i>Science</i> , 2012, 335, 229-232.	12.6	292
42	Interleukin-1 Stimulates ADAM17 through a Mechanism Independent of its Cytoplasmic Domain or Phosphorylation at Threonine 735. <i>PLoS ONE</i> , 2012, 7, e31600.	2.5	43
43	The disintegrin/metalloproteinase Adam10 is essential for epidermal integrity and Notch-mediated signaling. <i>Development (Cambridge)</i> , 2011, 138, 495-505.	2.5	130
44	Deletion of Adam10 in endothelial cells leads to defects in organ-specific vascular structures. <i>Blood</i> , 2011, 118, 1163-1174.	1.4	69
45	Migration of growth factor-stimulated epithelial and endothelial cells depends on EGFR transactivation by ADAM17. <i>Nature Communications</i> , 2011, 2, 229.	12.8	128
46	TNF- $\alpha$ Converting Enzyme/A Disintegrin and Metalloprotease <sup>17</sup> Mediates Mechanotransduction in Murine Tracheal Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 45, 376-385.	2.9	24
47	Neuronal Brain-derived Neurotrophic Factor Is Synthesized in Excess, with Levels Regulated by Sortilin-mediated Trafficking and Lysosomal Degradation. <i>Journal of Biological Chemistry</i> , 2011, 286, 29556-29567.	3.4	91
48	Shedding of the Mer Tyrosine Kinase Receptor Is Mediated by ADAM17 Protein through a Pathway Involving Reactive Oxygen Species, Protein Kinase C $\delta$ , and p38 Mitogen-activated Protein Kinase (MAPK). <i>Journal of Biological Chemistry</i> , 2011, 286, 33335-33344.	3.4	228
49	TACE (ADAM17) inhibits Schwann cell myelination. <i>Nature Neuroscience</i> , 2011, 14, 857-865.	14.8	136
50	3D trumps 2D when studying endothelial cells. <i>Blood</i> , 2010, 115, 5128-5130.	1.4	10
51	ADAM8 is a negative regulator of retinal neovascularization and of the growth of heterotopically injected tumor cells in mice. <i>Journal of Molecular Medicine</i> , 2010, 88, 497-505.	3.9	49
52	Stimulation of Platelet-derived Growth Factor Receptor $\beta^2$ (PDGFR $\beta^2$ ) Activates ADAM17 and Promotes Metalloproteinase-dependent Cross-talk between the PDGFR $\beta^2$ and Epidermal Growth Factor Receptor (EGFR) Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2010, 285, 25024-25032.	3.4	45
53	Pathological Neovascularization Is Reduced by Inactivation of ADAM17 in Endothelial Cells but Not in Pericytes. <i>Circulation Research</i> , 2010, 106, 932-940.	4.5	132
54	MyD88 signaling in nonhematopoietic cells protects mice against induced colitis by regulating specific EGF receptor ligands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19967-19972.	7.1	134

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55	The Disintegrin/Metalloproteinase ADAM10 Is Essential for the Establishment of the Brain Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 4833-4844.	3.6	327
56	ADAM17 is regulated by a rapid and reversible mechanism that controls access to its catalytic site. <i>Journal of Cell Science</i> , 2010, 123, 3913-3922.	2.0	165
57	Ectodomain shedding of EGFR ligands and TNFR1 dictates hepatocyte apoptosis during fulminant hepatitis in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2731-2744.	8.2	76
58	Conditional Inactivation of TACE by a Sox9 Promoter Leads to Osteoporosis and Increased Granulopoiesis via Dysregulation of IL-17 and G-CSF. <i>Journal of Immunology</i> , 2009, 182, 2093-2101.	0.8	57
59	Ectodomain Shedding of FLT3 Ligand Is Mediated by TNF- $\alpha$ Converting Enzyme. <i>Journal of Immunology</i> , 2009, 182, 7408-7414.	0.8	29
60	Src Stimulates Fibroblast Growth Factor Receptor-2 Shedding by an ADAM15 Splice Variant Linked to Breast Cancer. <i>Cancer Research</i> , 2009, 69, 4573-4576.	0.9	30
61	Shedding of Collagen XVII/BP180 in Skin Depends on Both ADAM10 and ADAM9. <i>Journal of Biological Chemistry</i> , 2009, 284, 23386-23396.	3.4	105
62	ADAM9 Is Involved in Pathological Retinal Neovascularization. <i>Molecular and Cellular Biology</i> , 2009, 29, 2694-2703.	2.3	85
63	ADAMs 10 and 17 Represent Differentially Regulated Components of a General Shedding Machinery for Membrane Proteins Such as Transforming Growth Factor $\alpha$ , L-Selectin, and Tumor Necrosis Factor $\alpha$ . <i>Molecular Biology of the Cell</i> , 2009, 20, 1785-1794.	2.1	230
64	The role of protease activity in ErbB biology. <i>Experimental Cell Research</i> , 2009, 315, 671-682.	2.6	75
65	Characterization of the catalytic activity of the membrane-anchored metalloproteinase ADAM15 in cell-based assays. <i>Biochemical Journal</i> , 2009, 420, 105-113.	3.7	48
66	ADAM12: a potential target for the treatment of chronic wounds. <i>Journal of Molecular Medicine</i> , 2008, 86, 961-969.	3.9	50
67	ADAM10 Regulates Endothelial Permeability and T-Cell Transmigration by Proteolysis of Vascular Endothelial Cadherin. <i>Circulation Research</i> , 2008, 102, 1192-1201.	4.5	264
68	VEGF-A Stimulates ADAM17-Dependent Shedding of VEGFR2 and Crosstalk Between VEGFR2 and ERK Signaling. <i>Circulation Research</i> , 2008, 103, 916-918.	4.5	146
69	Different ADAMs have distinct influences on Kit ligand processing: phorbol-ester-stimulated ectodomain shedding of Kit1 by ADAM17 is reduced by ADAM19. <i>Journal of Cell Science</i> , 2007, 120, 943-952.	2.0	56
70	Cutting Edge: TNF- $\alpha$ -Converting Enzyme (TACE/ADAM17) Inactivation in Mouse Myeloid Cells Prevents Lethality from Endotoxin Shock. <i>Journal of Immunology</i> , 2007, 179, 2686-2689.	0.8	287
71	Cell Surface Colony-Stimulating Factor 1 Can Be Cleaved by TNF- $\alpha$ Converting Enzyme or Endocytosed in a Clathrin-Dependent Manner. <i>Journal of Immunology</i> , 2007, 179, 6715-6724.	0.8	42
72	Substrate Selectivity of Epidermal Growth Factor-Receptor Ligand Sheddases and their Regulation by Phorbol Esters and Calcium Influx. <i>Molecular Biology of the Cell</i> , 2007, 18, 176-188.	2.1	276

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73	Proteolytic Processing of Delta-like 1 by ADAM Proteases. <i>Journal of Biological Chemistry</i> , 2007, 282, 436-444.	3.4	117
74	Ectodomain shedding of the EGF-receptor ligand epigen is mediated by ADAM17. <i>FEBS Letters</i> , 2007, 581, 41-44.	2.8	101
75	In search of partners: linking extracellular proteases to substrates. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 245-257.	37.0	326
76	Metalloproteases regulate T-cell proliferation and effector function via LAG-3. <i>EMBO Journal</i> , 2007, 26, 494-504.	7.8	203
77	A Sensitive Method to Monitor Ectodomain Shedding of Ligands of the Epidermal Growth Factor Receptor. , 2006, 327, 99-114.		46
78	ADAM10 is a principal 'shedase' of the low-affinity immunoglobulin E receptor CD23. <i>Nature Immunology</i> , 2006, 7, 1293-1298.	14.5	189
79	ADAMs: key components in EGFR signalling and development. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 32-43.	37.0	989
80	Metalloprotease-disintegrin ADAM8: Expression analysis and targeted deletion in mice. <i>Developmental Dynamics</i> , 2005, 232, 221-231.	1.8	107
81	Homeostatic effects of the metalloproteinase disintegrin ADAM15 in degenerative cartilage remodeling. <i>Arthritis and Rheumatism</i> , 2005, 52, 1100-1109.	6.7	57
82	Studies from ADAM Knockout Mice. , 2005, , 29-64.		2
83	Critical Function for ADAM9 in Mouse Prostate Cancer. <i>Cancer Research</i> , 2005, 65, 9312-9319.	0.9	100
84	L1 Is Sequentially Processed by Two Differently Activated Metalloproteases and Presenilin/ $\beta$ -Secretase and Regulates Neural Cell Adhesion, Cell Migration, and Neurite Outgrowth. <i>Molecular and Cellular Biology</i> , 2005, 25, 9040-9053.	2.3	212
85	Adam Meets Eph: An ADAM Substrate Recognition Module Acts as a Molecular Switch for Ephrin Cleavage In trans. <i>Cell</i> , 2005, 123, 291-304.	28.9	407
86	Evaluation of the contributions of ADAMs 9, 12, 15, 17, and 19 to heart development and ectodomain shedding of neuregulins $\beta$ 1 and $\beta$ 2. <i>Developmental Biology</i> , 2005, 283, 459-471.	2.0	147
87	Evaluation of the Contribution of Different ADAMs to Tumor Necrosis Factor $\alpha$ (TNF $\alpha$ ) Shedding and of the Function of the TNF $\alpha$ Ectodomain in Ensuring Selective Stimulated Shedding by the TNF $\alpha$ Convertase (TACE/ADAM17). <i>Journal of Biological Chemistry</i> , 2004, 279, 42898-42906.	3.4	135
88	Essential Role for ADAM19 in Cardiovascular Morphogenesis. <i>Molecular and Cellular Biology</i> , 2004, 24, 96-104.	2.3	118
89	Distinct roles for ADAM10 and ADAM17 in ectodomain shedding of six EGFR ligands. <i>Journal of Cell Biology</i> , 2004, 164, 769-779.	5.2	895
90	Evidence for a Critical Role of the Tumor Necrosis Factor $\alpha$ Convertase (TACE) in Ectodomain Shedding of the p75 Neurotrophin Receptor (p75NTR). <i>Journal of Biological Chemistry</i> , 2004, 279, 4241-4249.	3.4	134

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91	Biochemical properties and functions of membrane-anchored metalloprotease-disintegrin proteins (ADAMs). <i>Current Topics in Developmental Biology</i> , 2003, 54, 101-123.	2.2	81
92	Catalytic Properties of ADAM19. <i>Journal of Biological Chemistry</i> , 2003, 278, 22331-22340.	3.4	114
93	Potential Role for ADAM15 in Pathological Neovascularization in Mice. <i>Molecular and Cellular Biology</i> , 2003, 23, 5614-5624.	2.3	170
94	Tumor Necrosis Factor- $\alpha$ Converting Enzyme/ADAM 17 Mediates MUC1 Shedding. <i>Journal of Biological Chemistry</i> , 2003, 278, 3386-3394.	3.4	177
95	Mice Lacking the Metalloprotease-Disintegrin MDC9 (ADAM9) Have No Evident Major Abnormalities during Development or Adult Life. <i>Molecular and Cellular Biology</i> , 2002, 22, 1537-1544.	2.3	183
96	Evidence for Regulation of the Tumor Necrosis Factor $\alpha$ -Convertase (TACE) by Protein-tyrosine Phosphatase PTPH1. <i>Journal of Biological Chemistry</i> , 2002, 277, 42463-42470.	3.4	116
97	The enzymatic activity of ADAM8 and ADAM9 is not regulated by TIMPs. <i>FEBS Letters</i> , 2002, 524, 154-158.	2.8	128
98	Catalytic activity of ADAM28. <i>FEBS Letters</i> , 2001, 498, 82-86.	2.8	63
99	Tumor Necrosis Factor- $\alpha$ -converting Enzyme (ADAM17) Mediates the Cleavage and Shedding of Fractalkine (CX3CL1). <i>Journal of Biological Chemistry</i> , 2001, 276, 37993-38001.	3.4	551
100	Biochemical and Pharmacological Criteria Define Two Shedding Activities for TRANCE/OPGL That Are Distinct from the Tumor Necrosis Factor $\alpha$ Convertase. <i>Journal of Biological Chemistry</i> , 2001, 276, 14665-14674.	3.4	121
101	Intracellular maturation and localization of the tumour necrosis factor $\alpha$ convertase (TACE). <i>Biochemical Journal</i> , 2000, 347, 131.	3.7	89
102	Cloning and characterization of ADAM28: evidence for autocatalytic pro-domain removal and for cell surface localization of mature ADAM28. <i>Biochemical Journal</i> , 2000, 348, 21-27.	3.7	116
103	Intracellular maturation and localization of the tumour necrosis factor $\alpha$ convertase (TACE). <i>Biochemical Journal</i> , 2000, 347, 131-138.	3.7	320
104	Interaction of the Metalloprotease Disintegrins MDC9 and MDC15 with Two SH3 Domain-containing Proteins, Endophilin I and SH3PX1. <i>Journal of Biological Chemistry</i> , 1999, 274, 31693-31699.	3.4	157
105	Metalloprotease-Disintegrin MDC9: Intracellular Maturation and Catalytic Activity. <i>Journal of Biological Chemistry</i> , 1999, 274, 3531-3540.	3.4	284
106	Evidence for an interaction of the metalloprotease- $\alpha$ -disintegrin tumour necrosis factor $\alpha$ convertase (TACE) with mitotic arrest deficient 2 (MAD2), and of the metalloprotease- $\alpha$ -disintegrin MDC9 with a novel MAD2-related protein, MAD2 $\beta$ . <i>Biochemical Journal</i> , 1999, 343, 673-680.	3.7	80
107	Evidence for an interaction of the metalloprotease- $\alpha$ -disintegrin tumour necrosis factor $\alpha$ convertase (TACE) with mitotic arrest deficient 2 (MAD2), and of the metalloprotease- $\alpha$ -disintegrin MDC9 with a novel MAD2-related protein, MAD2 $\beta$ . <i>Biochemical Journal</i> , 1999, 343, 673.	3.7	50
108	Intracellular Maturation of the Mouse Metalloprotease Disintegrin MDC15. <i>Journal of Biological Chemistry</i> , 1998, 273, 26236-26247.	3.4	145

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109	Cloning and Initial Characterization of Mouse Meltrin $\hat{1}^2$ and Analysis of the Expression of Four Metalloprotease-Disintegrins in Bone Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 4180-4187.	3.4	100
110	Metalloprotease-Disintegrins: Links to Cell Adhesion and Cleavage of TNF $\hat{1}$ and Notch. <i>Cell</i> , 1997, 90, 589-592.	28.9	371
111	Metargidin, a Membrane-anchored Metalloprotease-Disintegrin Protein with an RGD Integrin Binding Sequence. <i>Journal of Biological Chemistry</i> , 1996, 271, 4593-4596.	3.4	154
112	A potential fusion peptide and an integrin ligand domain in a protein active in sperm-egg fusion. <i>Nature</i> , 1992, 356, 248-252.	27.8	708