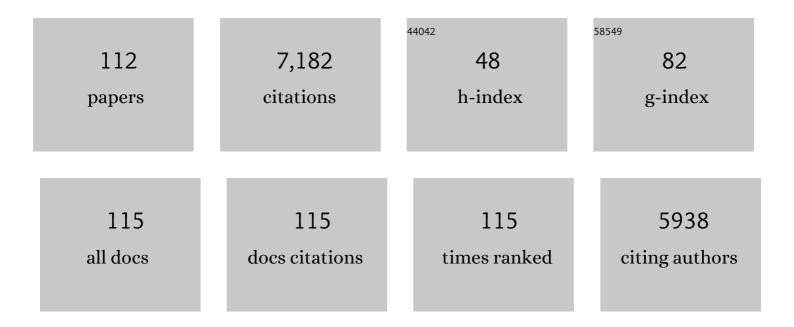
List of Publications by Year in descending order

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WELLEN TANC

#	Article	IF	CITATIONS
1	Adenylyl cyclases. Cell, 1992, 70, 869-872.	13.5	460
2	Structural basis for the activation of anthrax adenylyl cyclase exotoxin by calmodulin. Nature, 2002, 415, 396-402.	13.7	388
3	Gadd45β mediates the NF-κB suppression of JNK signalling by targeting MKK7/JNKK2. Nature Cell Biology, 2004, 6, 146-153.	4.6	318
4	Structures of human insulin-degrading enzyme reveal a new substrate recognition mechanism. Nature, 2006, 443, 870-874.	13.7	315
5	Anti-diabetic activity of insulin-degrading enzyme inhibitors mediated by multiple hormones. Nature, 2014, 511, 94-98.	13.7	207
6	Regulation of forskolin interactions with type I, II, V, and VI adenylyl cyclases by Gs.alpha Biochemistry, 1994, 33, 12852-12859.	1.2	203
7	Catalytic Mechanism and Regulation of Mammalian Adenylyl Cyclases. Molecular Pharmacology, 1998, 54, 231-240.	1.0	184
8	Bacillus anthracis Edema Toxin Causes Extensive Tissue Lesions and Rapid Lethality in Mice. American Journal of Pathology, 2005, 167, 1309-1320.	1.9	172
9	Amyloid β-degrading cryptidases: insulin degrading enzyme, presequence peptidase, and neprilysin. Cellular and Molecular Life Sciences, 2008, 65, 2574-2585.	2.4	153
10	Anthrax toxins suppress T lymphocyte activation by disrupting antigen receptor signaling. Journal of Experimental Medicine, 2005, 201, 325-331.	4.2	152
11	Chemical screening by mass spectrometry to identify inhibitors of anthrax lethal factor. Nature Biotechnology, 2004, 22, 717-723.	9.4	140
12	Anthrax Edema Toxin Cooperates with Lethal Toxin to Impair Cytokine Secretion during Infection of Dendritic Cells. Journal of Immunology, 2005, 174, 4934-4941.	0.4	136
13	Truncation and Alanine-Scanning Mutants of Type I Adenylyl Cyclase. Biochemistry, 1995, 34, 14563-14572.	1.2	131
14	Phosphorylation of FADD at Serine 194 by CKIα Regulates Its Nonapoptotic Activities. Molecular Cell, 2005, 19, 321-332.	4.5	130
15	Polymerization of MIP-1 chemokine (CCL3 and CCL4) and clearance of MIP-1 by insulin-degrading enzyme. EMBO Journal, 2010, 29, 3952-3966.	3.5	129
16	Calcium-independent calmodulin binding and two-metal–ion catalytic mechanism of anthrax edema factor. EMBO Journal, 2005, 24, 929-941.	3.5	127
17	Structural basis for the interaction of Bordetella pertussis adenylyl cyclase toxin with calmodulin. EMBO Journal, 2005, 24, 3190-3201.	3.5	127
18	Selective inhibition of anthrax edema factor by adefovir, a drug for chronic hepatitis B virus infection. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3242-3247.	3.3	109

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19	Structure of Substrate-free Human Insulin-degrading Enzyme (IDE) and Biophysical Analysis of ATP-induced Conformational Switch of IDE. Journal of Biological Chemistry, 2007, 282, 25453-25463.	1.6	108
20	Two Cytoplasmic Domains of Mammalian Adenylyl Cyclase Form a GSα- and Forskolin-activated Enzyme in Vitro. Journal of Biological Chemistry, 1996, 271, 10941-10945.	1.6	104
21	Chronic Morphine Augments Adenylyl Cyclase Phosphorylation: Relevance to Altered Signaling during Tolerance/Dependence. Molecular Pharmacology, 1998, 54, 949-953.	1.0	99
22	Spatial localization of bacteria controls coagulation of human blood by 'quorum acting'. Nature Chemical Biology, 2008, 4, 742-750.	3.9	95
23	Physiological calcium concentrations regulate calmodulin binding and catalysis of adenylyl cyclase exotoxins. EMBO Journal, 2002, 21, 6721-6732.	3.5	91
24	Designed Inhibitors of Insulin-Degrading Enzyme Regulate the Catabolism and Activity of Insulin. PLoS ONE, 2010, 5, e10504.	1.1	91
25	The adenylyl cyclase activity of anthrax edema factor. Molecular Aspects of Medicine, 2009, 30, 423-430.	2.7	87
26	Cellular Functions and X-ray Structure of Anthrolysin O, a Cholesterol-dependent Cytolysin Secreted by Bacillus anthracis. Journal of Biological Chemistry, 2009, 284, 14645-14656.	1.6	86
27	Conversion of Forskolin-Insensitive to Forskolin-Sensitive (Mouse-Type IX) Adenylyl Cyclase. Molecular Pharmacology, 1998, 53, 182-187.	1.0	84
28	Targeting Insulin-Degrading Enzyme to Treat Type 2 Diabetes Mellitus. Trends in Endocrinology and Metabolism, 2016, 27, 24-34.	3.1	82
29	Structure-based Inhibitor Discovery against Adenylyl Cyclase Toxins from Pathogenic Bacteria That Cause Anthrax and Whooping Cough. Journal of Biological Chemistry, 2003, 278, 25990-25997.	1.6	81
30	Modular Total Chemical Synthesis of a Human Immunodeficiency Virus Type 1 Protease. Journal of the American Chemical Society, 2007, 129, 11480-11490.	6.6	79
31	Molecular Bases for the Recognition of Short Peptide Substrates and Cysteine-Directed Modifications of Human Insulin-Degrading Enzyme. Biochemistry, 2008, 47, 12822-12834.	1.2	73
32	Molecular Basis for the Recognition and Cleavages of IGF-II, TGF-α, and Amylin by Human Insulin-Degrading Enzyme. Journal of Molecular Biology, 2010, 395, 430-443.	2.0	72
33	Structural basis for oligomerization and glycosaminoglycan binding of CCL5 and CCL3. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5000-5005.	3.3	72
34	Catalytic site inhibition of insulin-degrading enzyme by a small molecule induces glucose intolerance in mice. Nature Communications, 2015, 6, 8250.	5.8	71
35	Molecular Basis of Catalytic Chamber-assisted Unfolding and Cleavage of Human Insulin by Human Insulin-degrading Enzyme. Journal of Biological Chemistry, 2009, 284, 14177-14188.	1.6	69
36	The Conserved Asparagine and Arginine Are Essential for Catalysis of Mammalian Adenylyl Cyclase. Journal of Biological Chemistry, 1997, 272, 12342-12349.	1.6	65

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37	Use of allostery to identify inhibitors of calmodulin-induced activation of <i>Bacillus anthracis</i> edema factor. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11277-11282.	3.3	65
38	Insulin-degrading Enzyme Modulates the Natriuretic Peptide-mediated Signaling Response. Journal of Biological Chemistry, 2011, 286, 4670-4679.	1.6	65
39	An Extended Conformation of Calmodulin Induces Interactions between the Structural Domains of Adenylyl Cyclase from Bacillus anthracis to Promote Catalysis. Journal of Biological Chemistry, 2000, 275, 36334-36340.	1.6	60
40	Antiinflammatory cAMP signaling and cell migration genes co-opted by the anthrax bacillus. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6150-6155.	3.3	60
41	Anthrax Edema Toxin Inhibits Endothelial Cell Chemotaxis via Epac and Rap1. Journal of Biological Chemistry, 2007, 282, 19781-19787.	1.6	59
42	Cytidylyl and Uridylyl Cyclase Activity of <i>Bacillus anthracis</i> Edema Factor and <i>Bordetella pertussis</i> CyaA. Biochemistry, 2010, 49, 5494-5503.	1.2	59
43	Anthrax Toxins Induce Shock in Rats by Depressed Cardiac Ventricular Function. PLoS ONE, 2007, 2, e466.	1.1	58
44	Anthrax toxin-induced shock in rats is associated with pulmonary edema and hemorrhage. Microbial Pathogenesis, 2008, 44, 467-472.	1.3	53
45	Structural and Kinetic Analyses of the Interaction of Anthrax Adenylyl Cyclase Toxin with Reaction Products cAMP and Pyrophosphate. Journal of Biological Chemistry, 2004, 279, 29427-29435.	1.6	52
46	Noninvasive Imaging Technologies Reveal Edema Toxin as a Key Virulence Factor in Anthrax. American Journal of Pathology, 2011, 178, 2523-2535.	1.9	52
47	Conformational states and recognition of amyloidogenic peptides of human insulin-degrading enzyme. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13827-13832.	3.3	52
48	Calcium Dependence of the Interaction between Calmodulin and Anthrax Edema Factor. Journal of Biological Chemistry, 2003, 278, 29261-29266.	1.6	51
49	Locking the Elbow: Improved Antibody Fab Fragments as Chaperones for Structure Determination. Journal of Molecular Biology, 2018, 430, 337-347.	2.0	50
50	Three Discrete Regions of Mammalian Adenylyl Cyclase Form a Site for Gsα Activation. Journal of Biological Chemistry, 1997, 272, 18849-18854.	1.6	48
51	Ensemble cryoEM elucidates the mechanism of insulin capture and degradation by human insulin degrading enzyme. ELife, 2018, 7, .	2.8	45
52	The C-terminal domain of human insulin degrading enzyme is required for dimerization and substrate recognition. Biochemical and Biophysical Research Communications, 2006, 343, 1032-1037.	1.0	43
53	Structural Determinants of Ubiquitin-CXC Chemokine Receptor 4 Interaction. Journal of Biological Chemistry, 2011, 286, 44145-44152.	1.6	40
54	Molecular Basis of Substrate Recognition and Degradation by Human Presequence Protease. Structure, 2014, 22, 996-1007.	1.6	40

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55	Molecular Analysis of the Interaction of Bordetella pertussis Adenylyl Cyclase with Fluorescent Nucleotides. Molecular Pharmacology, 2007, 72, 526-535.	1.0	37
56	<i>Bacillus anthracis</i> Edema Toxin Impairs Neutrophil Actin-Based Motility. Infection and Immunity, 2009, 77, 2455-2464.	1.0	36
57	Protective Role of Cys-178 against the Inactivation and Oligomerization of Human Insulin-degrading Enzyme by Oxidation and Nitrosylation. Journal of Biological Chemistry, 2009, 284, 34005-34018.	1.6	36
58	Molecular Analysis of the Interaction of Anthrax Adenylyl Cyclase Toxin, Edema Factor, with 2′(3′)- <i>O</i> -( <i>N</i> -(methyl)anthraniloyl)-Substituted Purine and Pyrimidine Nucleotides. Molecular Pharmacology, 2009, 75, 693-703.	1.0	36
59	The Amino Terminus of Varicella-Zoster Virus (VZV) Glycoprotein E Is Required for Binding to Insulin-Degrading Enzyme, a VZV Receptor. Journal of Virology, 2007, 81, 8525-8532.	1.5	35
60	Lethal and edema toxins of anthrax induce distinct hemodynamic dysfunction. Frontiers in Bioscience - Landmark, 2007, 12, 4670.	3.0	34
61	Nucleotidyl Cyclase Activity of Particulate Guanylyl Cyclase A: Comparison with Particulate Guanylyl Cyclases E and F, Soluble Guanylyl Cyclase and Bacterial Adenylyl Cyclases Cyaa and Edema Factor. PLoS ONE, 2013, 8, e70223.	1.1	34
62	The Regulation of Type 7 Adenylyl Cyclase by Its C1b Region and Escherichia coli Peptidylprolyl Isomerase, SlyD. Journal of Biological Chemistry, 2001, 276, 8500-8506.	1.6	33
63	Discovery of a Small Molecule that Inhibits the Interaction of Anthrax Edema Factor with Its Cellular Activator, Calmodulin. Chemistry and Biology, 2004, 11, 1139-1146.	6.2	33
64	Ubiquitin Is a Novel Substrate for Human Insulin-Degrading Enzyme. Journal of Molecular Biology, 2011, 406, 454-466.	2.0	31
65	Anthrax Edema Toxin Sensitizes DBA/2J Mice to Lethal Toxin. Infection and Immunity, 2007, 75, 2120-2125.	1.0	30
66	Structure of anthrax edema factor–calmodulin–adenosine 5′-(α,β-methylene)-triphosphate complex reveals an alternative mode of ATP binding to the catalytic site. Biochemical and Biophysical Research Communications, 2004, 317, 309-314.	1.0	29
67	A fluorimetric assay for real-time monitoring of adenylyl cyclase activity based on terbium norfloxacin. Analytical Biochemistry, 2008, 381, 86-93.	1.1	29
68	The role of anthrolysin O in gut epithelial barrier disruption during Bacillus anthracis infection. Biochemical and Biophysical Research Communications, 2010, 394, 254-259.	1.0	29
69	Inhibition of Adenylyl and Guanylyl Cyclase Isoforms by the Antiviral Drug Foscarnet. Journal of Biological Chemistry, 2001, 276, 3010-3016.	1.6	28
70	Real-time Analysis of Ternary Complex on Particles. Journal of Biological Chemistry, 2004, 279, 13514-13521.	1.6	28
71	Protein-Protein Docking and Analysis Reveal That Two Homologous Bacterial Adenylyl Cyclase Toxins Interact with Calmodulin Differently. Journal of Biological Chemistry, 2008, 283, 23836-23845.	1.6	27
72	Imidazole-derived 2-[N-carbamoylmethyl-alkylamino]acetic acids, substrate-dependent modulators of insulin-degrading enzyme in amyloid-β hydrolysis. European Journal of Medicinal Chemistry, 2014, 79, 184-193.	2.6	27

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73	Degradation of Alzheimer's Amyloid-β by a Catalytically Inactive Insulin-Degrading Enzyme. Journal of Molecular Biology, 2021, 433, 166993.	2.0	27
74	Comparison of Three Anthrax Toxin Neutralization Assays. Vaccine Journal, 2010, 17, 895-903.	3.2	26
75	Structure–activity relationships of imidazole-derived 2-[N-carbamoylmethyl-alkylamino]acetic acids, dual binders of human insulin-degrading enzyme. European Journal of Medicinal Chemistry, 2015, 90, 547-567.	2.6	24
76	Insights from Atomic-Resolution X-Ray Structures of Chemically Synthesized HIV-1 Protease in Complex with Inhibitors. Journal of Molecular Biology, 2007, 373, 573-586.	2.0	23
77	Bis-Halogen-Anthraniloyl-Substituted Nucleoside 5′-Triphosphates as Potent and Selective Inhibitors of Bordetella pertussis Adenylyl Cyclase Toxin. Journal of Pharmacology and Experimental Therapeutics, 2011, 336, 104-115.	1.3	23
78	Crystallization and preliminary X-ray study of the edema factor exotoxin adenylyl cyclase domain fromBacillus anthracisin the presence of its activator, calmodulin. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1881-1884.	2.5	22
79	A 1.3-Ã Structure of Zinc-bound N-terminal Domain of Calmodulin Elucidates Potential Early Ion-binding Step. Journal of Molecular Biology, 2007, 374, 517-527.	2.0	22
80	The C2 Catalytic Domain of Adenylyl Cyclase Contains the Second Metal Ion (Mn2+) Binding Siteâ€. Biochemistry, 1998, 37, 16183-16191.	1.2	21
81	Modulation of the CXC Chemokine Receptor 4 Agonist Activity of Ubiquitin through C-Terminal Protein Modification. Biochemistry, 2013, 52, 4184-4192.	1.2	21
82	Structures of Human CCL18, CCL3, and CCL4 Reveal Molecular Determinants for Quaternary Structures and Sensitivity to Insulin-Degrading Enzyme. Journal of Molecular Biology, 2015, 427, 1345-1358.	2.0	21
83	Anthrax edema factor potency depends on mode of cell entry. Biochemical and Biophysical Research Communications, 2005, 335, 850-857.	1.0	20
84	Expression of metalloprotease insulin-degrading enzyme insulysin in normal and malignant human tissues. International Journal of Molecular Medicine, 2008, 22, 421-31.	1.8	20
85	Forskolin Carbamates: Binding and Activation Studies with Type I Adenylyl Cyclase. Journal of Medicinal Chemistry, 1996, 39, 2745-2752.	2.9	19
86	Characterization and crystallization of a minimal catalytic core domain from mammalian type II adenylyl cyclase. Protein Science, 1997, 6, 903-908.	3.1	19
87	7 Class III adenylyl cyclases: Regulation and underlying mechanisms. Advances in Second Messenger and Phosphoprotein Research, 1997, 32, 137-151.	4.5	19
88	[7] Expression and purification of recombinant adenylyl cyclases in Sf9 cells. Methods in Enzymology, 1994, 238, 95-108.	0.4	18
89	Contributions of Edema Factor and Protective Antigen to the Induction of Protective Immunity by <i>Bacillus anthracis</i> Edema Toxin as an Intranasal Adjuvant. Journal of Immunology, 2010, 185, 5943-5952.	0.4	18
90	Previous Exposure to Δ9-Tetrahydrocannibinol Enhances Locomotor Responding to but Not Self-Administration of Amphetamine. Journal of Pharmacology and Experimental Therapeutics, 2011, 337, 724-733.	1.3	18

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91	Empirical Valence Bond Simulations of the Chemical Mechanism of ATP to cAMP Conversion by Anthrax Edema Factor. Biochemistry, 2013, 52, 2672-2682.	1.2	16
92	Daughterless homodimer synergizes with Eyeless to induce Atonal expression and retinal neuron differentiation. Developmental Biology, 2014, 392, 256-265.	0.9	16
93	Structural changes in intermediate filament networks alter the activity of insulinâ€degrading enzyme. FASEB Journal, 2009, 23, 3734-3742.	0.2	15
94	Identification of ebselen as a potent inhibitor of insulin degrading enzyme by a drug repurposing screening. European Journal of Medicinal Chemistry, 2019, 179, 557-566.	2.6	13
95	Inhibition of the adenylyl cyclase toxin, edema factor, from Bacillus anthracis by a series of 18 mono- and bis-(M)ANT-substituted nucleoside 5′-triphosphates. Naunyn-Schmiedeberg's Archives of Pharmacology, 2012, 385, 57-68.	1.4	12
96	Construction of Soluble Adenylyl Cyclase from Human Membrane-Bound Type 7 Adenylyl Cyclase. Methods in Enzymology, 2002, 345, 231-241.	0.4	11
97	Distinct interactions of 2′- and 3′-O-(N-methyl)anthraniloyl-isomers of ATP and GTP with the adenylyl cyclase toxin of Bacillus anthracis, edema factor. Biochemical Pharmacology, 2009, 78, 224-230.	2.0	11
98	The Inwardly Rectifying K <sup>+</sup> Channel Subunit GIRK1 Rescues the GIRK2 <i>weaver</i> Phenotype. Journal of Neuroscience, 1999, 19, 8327-8336.	1.7	9
99	A Soluble C1b Protein and Its Regulation of Soluble Type 7 Adenylyl Cyclase. Biochemistry, 2004, 43, 15463-15471.	1.2	9
100	Interactions of Bordetella pertussis adenylyl cyclase toxin CyaA with calmodulin mutants and calmodulin antagonists: Comparison with membranous adenylyl cyclase I. Biochemical Pharmacology, 2012, 83, 839-848.	2.0	9
101	Catalytic Mechanism of Amyloid-β Peptide Degradation by Insulin Degrading Enzyme: Insights from Quantum Mechanics and Molecular Mechanics Style MÃ,ller–Plesset Second Order Perturbation Theory Calculation. Journal of Chemical Information and Modeling, 2018, 58, 1926-1934.	2.5	9
102	Expression of α Subunit of Gs in Escherichia coli. Methods in Enzymology, 2002, 344, 171-175.	0.4	8
103	Conditional regulation of adenylyl cyclases by G-protein Î <sup>2</sup> Î <sup>3</sup> -subunits. Biochemical Society Transactions, 1993, 21, 1132-1138.	1.6	7
104	Immunohistochemical evidence of ubiquitous distribution of the metalloendoprotease insulin-degrading enzyme (IDE; insulysin) in human non-malignant tissues and tumor cell lines. Biological Chemistry, 2008, 389, 1441-1445.	1.2	7
105	Pseudomonas aeruginosa exoenzyme Y directly bundles actin filaments. Journal of Biological Chemistry, 2020, 295, 3506-3517.	1.6	7
106	Reinvestigating the synthesis and efficacy of small benzimidazole derivatives as presequence protease enhancers. European Journal of Medicinal Chemistry, 2019, 184, 111746.	2.6	5
107	Rapid Discovery and Characterization of Synthetic Neutralizing Antibodies against Anthrax Edema Toxin. Biochemistry, 2019, 58, 2996-3004.	1.2	4
108	Structural basis for the mechanisms of human presequence protease conformational switch and substrate recognition. Nature Communications, 2022, 13, 1833.	5.8	4

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109	The Case for Developing Consensus Standards for Research in Microbial Pathogenesis: <i>Bacillus anthracis</i> Toxins as an Example. Infection and Immunity, 2009, 77, 4182-4186.	1.0	3
110	Crystal structures of catalytic and regulatory subunits of rat protein kinase CK2. Science Bulletin, 2009, 54, 220-226.	4.3	3
111	Different Roles of N-Terminal and C-Terminal Domains in Calmodulin for Activation of Bacillus anthracis Edema Factor. Toxins, 2015, 7, 2598-2614.	1.5	3
112	Structural analysis of Mycobacterium tuberculosis M13 metalloprotease Zmp1 open states. Structure, 2021, 29, 709-720.e3.	1.6	3