

# Daan van Aalten

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3113472/publications.pdf>

Version: 2024-02-01

167  
papers

15,513  
citations

23500

58  
h-index

18606

119  
g-index

173  
all docs

173  
docs citations

173  
times ranked

19267  
citing authors

#	ARTICLE	IF	CITATIONS
1	PRODRG: a tool for high-throughput crystallography of protein–ligand complexes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1355-1363.	2.5	4,230
2	PDK1, the master regulator of AGC kinase signal transduction. <i>Seminars in Cell and Developmental Biology</i> , 2004, 15, 161-170.	2.3	715
3	The Non-catalytic Chitin-binding Protein CBP21 from <i>Serratia marcescens</i> Is Essential for Chitin Degradation. <i>Journal of Biological Chemistry</i> , 2005, 280, 28492-28497.	1.6	321
4	Structure of the LKB1-STRAD-MO25 Complex Reveals an Allosteric Mechanism of Kinase Activation. <i>Science</i> , 2009, 326, 1707-1711.	6.0	287
5	High-Resolution Structure of the Pleckstrin Homology Domain of Protein Kinase B/Akt Bound to Phosphatidylinositol (3,4,5)-Trisphosphate. <i>Current Biology</i> , 2002, 12, 1256-1262.	1.8	273
6	N-myristoyltransferase inhibitors as new leads to treat sleeping sickness. <i>Nature</i> , 2010, 464, 728-732.	13.7	272
7	Glucose and glutamine fuel protein O-GlcNAcylation to control T cell self-renewal and malignancy. <i>Nature Immunology</i> , 2016, 17, 712-720.	7.0	265
8	Crystal Structure and Binding Properties of the <i>Serratia marcescens</i> Chitin-binding Protein CBP21. <i>Journal of Biological Chemistry</i> , 2005, 280, 11313-11319.	1.6	257
9	BsIA is a self-assembling bacterial hydrophobin that coats the <i>Bacillus subtilis</i> biofilm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13600-13605.	3.3	244
10	Binding of phosphatidylinositol 3,4,5-trisphosphate to the pleckstrin homology domain of protein kinase B induces a conformational change. <i>Biochemical Journal</i> , 2003, 375, 531-538.	1.7	243
11	Structure and metal-dependent mechanism of peptidoglycan deacetylase, a streptococcal virulence factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15429-15434.	3.3	196
12	Structure of Human Chitotriosidase. <i>Journal of Biological Chemistry</i> , 2002, 277, 25537-25544.	1.6	185
13	Binding to serine 65-phosphorylated ubiquitin primes Parkin for optimal PINK-dependent phosphorylation and activation. <i>EMBO Reports</i> , 2015, 16, 939-954.	2.0	183
14	Structural insights into the mechanism and inhibition of eukaryotic O-GlcNAc hydrolysis. <i>EMBO Journal</i> , 2006, 25, 1569-1578.	3.5	181
15	Activity-based E3 ligase profiling uncovers an E3 ligase with esterification activity. <i>Nature</i> , 2018, 556, 381-385.	13.7	178
16	High resolution crystal structure of the human PDK1 catalytic domain defines the regulatory phosphopeptide docking site. <i>EMBO Journal</i> , 2002, 21, 4219-4228.	3.5	176
17	Structural insights into the regulation of PDK1 by phosphoinositides and inositol phosphates. <i>EMBO Journal</i> , 2004, 23, 3918-3928.	3.5	167
18	Mutational and computational analysis of the role of conserved residues in the active site of a family 18 chitinase. <i>FEBS Journal</i> , 2004, 271, 253-262.	0.2	164

#	ARTICLE	IF	CITATIONS
19	Proteome Wide Purification and Identification of O-GlcNAc-Modified Proteins Using Click Chemistry and Mass Spectrometry. <i>Journal of Proteome Research</i> , 2013, 12, 927-936.	1.8	151
20	The <i>Vibrio cholerae</i> Colonization Factor GbpA Possesses a Modular Structure that Governs Binding to Different Host Surfaces. <i>PLoS Pathogens</i> , 2012, 8, e1002373.	2.1	150
21	Structure and Mechanism of Chitin Deacetylase from the Fungal Pathogen <i>Colletotrichum lindemuthianum</i> . <i>Biochemistry</i> , 2006, 45, 9416-9426.	1.2	149
22	O-GlcNAcylation of TAB1 modulates TAK1-mediated cytokine release. <i>EMBO Journal</i> , 2012, 31, 1394-1404.	3.5	138
23	GlcNAcstatin: A Picomolar, Selective O-GlcNAcase Inhibitor That Modulates Intracellular O-GlcNAcylation Levels. <i>Journal of the American Chemical Society</i> , 2006, 128, 16484-16485.	6.6	136
24	Structure-Based Exploration of Cyclic Dipeptide Chitinase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 5713-5720.	2.9	134
25	Analysis of the LKB1-STRAD-MO25 complex. <i>Journal of Cell Science</i> , 2004, 117, 6365-6375.	1.2	130
26	Pseudokinases-remnants of evolution or key allosteric regulators?. <i>Current Opinion in Structural Biology</i> , 2010, 20, 772-781.	2.6	130
27	Structure and Ligand-induced Conformational Change of the 39-kDa Glycoprotein from Human Articular Chondrocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 30206-30212.	1.6	125
28	O-GlcNAc transferase invokes nucleotide sugar pyrophosphate participation in catalysis. <i>Nature Chemical Biology</i> , 2012, 8, 969-974.	3.9	123
29	ATP and MO25± Regulate the Conformational State of the STRAD± Pseudokinase and Activation of the LKB1 Tumour Suppressor. <i>PLoS Biology</i> , 2009, 7, e1000126.	2.6	118
30	Structural basis for UCN-01 (7-hydroxystaurosporine) specificity and PDK1 (3-phosphoinositide-dependent protein kinase-1) inhibition. <i>Biochemical Journal</i> , 2003, 375, 255-262.	1.7	116
31	Mutation of the PDK1 PH Domain Inhibits Protein Kinase B/Akt, Leading to Small Size and Insulin Resistance. <i>Molecular and Cellular Biology</i> , 2008, 28, 3258-3272.	1.1	115
32	The active site of O-GlcNAc transferase imposes constraints on substrate sequence. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 744-750.	3.6	114
33	High Resolution Crystal Structures of Siglec-7. <i>Journal of Biological Chemistry</i> , 2003, 278, 3372-3377.	1.6	109
34	Specificity and Affinity of Natural Product Cyclopentapeptide Inhibitors against <i>A. fumigatus</i> , Human, and Bacterial Chitinases. <i>Chemistry and Biology</i> , 2005, 12, 65-76.	6.2	109
35	Methylxanthine Drugs Are Chitinase Inhibitors: Investigation of Inhibition and Binding Modes. <i>Chemistry and Biology</i> , 2005, 12, 973-980.	6.2	108
36	Structural insights into mechanism and specificity of O-GlcNAc transferase. <i>EMBO Journal</i> , 2008, 27, 2780-2788.	3.5	102

#	ARTICLE	IF	CITATIONS
37	The ubiquitin-associated domain of AMPK-related kinases regulates conformation and LKB1-mediated phosphorylation and activation. <i>Biochemical Journal</i> , 2006, 394, 545-555.	1.7	95
38	High-resolution structures of a chitinase complexed with natural product cyclopentapeptide inhibitors: Mimicry of carbohydrate substrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9127-9132.	3.3	93
39	Pound-Wise but Penny-Foolish. <i>Structure</i> , 2003, 11, 1051-1059.	1.6	90
40	Structural insights into the recognition of substrates and activators by the OSR1 kinase. <i>EMBO Reports</i> , 2007, 8, 839-845.	2.0	89
41	Discovery of catalytically active orthologues of the Parkinson's disease kinase PINK1: analysis of substrate specificity and impact of mutations. <i>Open Biology</i> , 2011, 1, 110012.	1.5	88
42	Structures of <i>Bacillus subtilis</i> PdaA, a family 4 carbohydrate esterase, and a complex with N-acetyl-glucosamine. <i>FEBS Letters</i> , 2004, 570, 13-19.	1.3	83
43	GlcNAcstatins are nanomolar inhibitors of human $\alpha$ -GlcNAcase inducing cellular hyper- $\alpha$ -GlcNAcylation. <i>Biochemical Journal</i> , 2009, 420, 221-227.	1.7	83
44	Siglec-7 Undergoes a Major Conformational Change When Complexed with the $\beta$ (2,8)-Disialylganglioside GT1b. <i>Journal of Biological Chemistry</i> , 2006, 281, 32774-32783.	1.6	82
45	Natural product family 18 chitinase inhibitors. <i>Natural Product Reports</i> , 2005, 22, 563.	5.2	79
46	PAS Domains. <i>Journal of Biological Chemistry</i> , 2003, 278, 18434-18439.	1.6	73
47	TAK1-binding protein 1 is a pseudophosphatase. <i>Biochemical Journal</i> , 2006, 399, 427-434.	1.7	73
48	Kinetic, inhibition and structural studies on 3-oxoacyl-ACP reductase from <i>Plasmodium falciparum</i> , a key enzyme in fatty acid biosynthesis. <i>Biochemical Journal</i> , 2006, 393, 447-457.	1.7	72
49	Structure of <i>Saccharomyces cerevisiae</i> Chitinase 1 and Screening-Based Discovery of Potent Inhibitors. <i>Chemistry and Biology</i> , 2007, 14, 589-599.	6.2	72
50	Mutations in N-acetylglucosamine (O-GlcNAc) transferase in patients with X-linked intellectual disability. <i>Journal of Biological Chemistry</i> , 2017, 292, 12621-12631.	1.6	72
51	Crystal Structures of Allosamidin Derivatives in Complex with Human Macrophage Chitinase. <i>Journal of Biological Chemistry</i> , 2003, 278, 20110-20116.	1.6	71
52	Structure of PINK1 and mechanisms of Parkinson's disease-associated mutations. <i>ELife</i> , 2017, 6, .	2.8	71
53	Crystal structure of the liganded SCP-2-like domain of human peroxisomal multifunctional enzyme type 2 at 1.75 Å... resolution 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 313, 1127-1138.	2.0	70
54	The structure of siglec-7 in complex with sialosides: leads for rational structure-based inhibitor design. <i>Biochemical Journal</i> , 2006, 397, 271-278.	1.7	70

#	ARTICLE	IF	CITATIONS
55	Phosphorylation of Synaptic Vesicle Protein 2A at Thr84 by Casein Kinase 1 Family Kinases Controls the Specific Retrieval of Synaptotagmin-1. <i>Journal of Neuroscience</i> , 2015, 35, 2492-2507.	1.7	70
56	Essential dynamics of DNA containing a cis.syn cyclobutane thymine dimer lesion. <i>Nucleic Acids Research</i> , 1998, 26, 1939-1946.	6.5	69
57	Molecular Mechanisms of Yeast Cell Wall Glucan Remodeling. <i>Journal of Biological Chemistry</i> , 2009, 284, 8461-8469.	1.6	67
58	O-GlcNAc transferase inhibitors: current tools and future challenges. <i>Biochemical Society Transactions</i> , 2016, 44, 88-93.	1.6	65
59	Crystal structure of MO25± in complex with the C terminus of the pseudo kinase STE20-related adaptor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 193-200.	3.6	62
60	Substrate and product analogues as human O-GlcNAc transferase inhibitors. <i>Amino Acids</i> , 2011, 40, 781-792.	1.2	60
61	Structure-Based Dissection of the Natural Product Cyclopentapeptide Chitinase Inhibitor Argifin. <i>Chemistry and Biology</i> , 2008, 15, 295-301.	6.2	59
62	Human OGA binds substrates in a conserved peptide recognition groove. <i>Biochemical Journal</i> , 2010, 432, 1-12.	1.7	58
63	Catalytic deficiency of O-GlcNAc transferase leads to X-linked intellectual disability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14961-14970.	3.3	58
64	The cyclic dipeptide CI-4 [cyclo-(l-Arg-d-Pro)] inhibits family 18 chitinases by structural mimicry of a reaction intermediate. <i>Biochemical Journal</i> , 2002, 368, 23-27.	1.7	57
65	Bisubstrate UDP±peptide conjugates as human O-GlcNAc transferase inhibitors. <i>Biochemical Journal</i> , 2014, 457, 497-502.	1.7	57
66	Lead Optimization of a Pyrazole Sulfonamide Series of <i>Trypanosoma brucei</i> N-Myristoyltransferase Inhibitors: Identification and Evaluation of CNS Penetrant Compounds as Potential Treatments for Stage 2 Human African Trypanosomiasis. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9855-9869.	2.9	57
67	Structure of the D142N mutant of the family 18 chitinase ChiB from <i>Serratia marcescens</i> and its complex with allosamidin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1696, 103-111.	1.1	56
68	Human YKL-39 is a pseudo-chitinase with retained chitoooligosaccharide-binding properties. <i>Biochemical Journal</i> , 2012, 446, 149-157.	1.7	55
69	Screening-based Discovery and Structural Dissection of a Novel Family 18 Chitinase Inhibitor. <i>Journal of Biological Chemistry</i> , 2006, 281, 27278-27285.	1.6	53
70	Molecular mechanisms of O-GlcNAcylation. <i>Current Opinion in Structural Biology</i> , 2008, 18, 551-557.	2.6	53
71	Cell-Penetrant, Nanomolar O-GlcNAcase Inhibitors Selective against Lysosomal Hexosaminidases. <i>Chemistry and Biology</i> , 2010, 17, 1250-1255.	6.2	52
72	A mutant O-GlcNAcase enriches <i>Drosophila</i> developmental regulators. <i>Nature Chemical Biology</i> , 2017, 13, 882-887.	3.9	51

#	ARTICLE	IF	CITATIONS
73	The crystal structure of 3-enoyl-CoA isomerase. <i>Journal of Molecular Biology</i> , 2001, 309, 845-853.	2.0	50
74	Elevated O-GlcNAc Levels Activate Epigenetically Repressed Genes and Delay Mouse ESC Differentiation Without Affecting Naïve to Primed Cell Transition. <i>Stem Cells</i> , 2014, 32, 2605-2615.	1.4	50
75	O-GlcNAcase: Promiscuous Hexosaminidase or Key Regulator of O-GlcNAc Signaling?. <i>Journal of Biological Chemistry</i> , 2014, 289, 34433-34439.	1.6	50
76	Genetic recoding to dissect the roles of site-specific protein O-GlcNAcylation. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 1071-1077.	3.6	50
77	Chemical Dissection of the Link between Streptozotocin, O-GlcNAc, and Pancreatic Cell Death. <i>Chemistry and Biology</i> , 2008, 15, 799-807.	6.2	48
78	Synergy of Peptide and Sugar in O-GlcNAcase Substrate Recognition. <i>Chemistry and Biology</i> , 2012, 19, 173-178.	6.2	48
79	Recognition of a glycosylation substrate by the O-GlcNAc transferase TPR repeats. <i>Open Biology</i> , 2017, 7, 170078.	1.5	48
80	Interactions of a Family 18 Chitinase with the Designed Inhibitor HM508 and Its Degradation Product, Chitobiono-lactone. <i>Journal of Biological Chemistry</i> , 2004, 279, 3612-3619.	1.6	47
81	Structure of a bacterial putative acetyltransferase defines the fold of the human O-GlcNAcase C-terminal domain. <i>Open Biology</i> , 2013, 3, 130021.	1.5	47
82	Nucleocytoplasmic human O-GlcNAc transferase is sufficient for O-GlcNAcylation of mitochondrial proteins. <i>Biochemical Journal</i> , 2016, 473, 1693-1702.	1.7	47
83	Acetazolamide-based fungal chitinase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 8334-8340.	1.4	46
84	A Structural and Biochemical Model of Processive Chitin Synthesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 23020-23028.	1.6	46
85	GacA is essential for Group A Streptococcus and defines a new class of monomeric dTDP-4-dehydroxymannose reductases (RmlD). <i>Molecular Microbiology</i> , 2015, 98, 946-962.	1.2	46
86	Analyzing Airway Inflammation with Chemical Biology: Dissection of Acidic Mammalian Chitinase Function with a Selective Drug-like Inhibitor. <i>Chemistry and Biology</i> , 2011, 18, 569-579.	6.2	44
87	Natural Product-Guided Discovery of a Fungal Chitinase Inhibitor. <i>Chemistry and Biology</i> , 2010, 17, 1275-1281.	6.2	41
88	A missense mutation in the catalytic domain of O-GlcNAc transferase links perturbations in protein O-GlcNAcylation to X-linked intellectual disability. <i>FEBS Letters</i> , 2020, 594, 717-727.	1.3	40
89	Sequence, chromophore extraction and 3-D model of the photoactive yellow protein from <i>Rhodobacter sphaeroides</i> . <i>BBA - Proteins and Proteomics</i> , 1998, 1385, 1-6.	2.1	39
90	An efficient synthesis of argifin: A natural product chitinase inhibitor with chemotherapeutic potential. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 4717-4721.	1.0	39

#	ARTICLE	IF	CITATIONS
91	Structural Basis of Reduction-dependent Activation of Human Cystatin F. <i>Journal of Biological Chemistry</i> , 2006, 281, 16570-16575.	1.6	39
92	Structure of the OSR1 kinase, a hypertension drug target. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 73, 1082-1087.	1.5	39
93	The N-Acetyl-D-glucosaminylphosphatidylinositol De-N-acetylase of Glycosylphosphatidylinositol Biosynthesis Is a Zinc Metalloenzyme. <i>Journal of Biological Chemistry</i> , 2005, 280, 22831-22838.	1.6	38
94	<i>N</i> -Myristoyltransferase Is a Cell Wall Target in <i>Aspergillus fumigatus</i> . <i>ACS Chemical Biology</i> , 2015, 10, 1425-1434.	1.6	38
95	An intellectual disability syndrome with single-nucleotide variants in O-GlcNAc transferase. <i>European Journal of Human Genetics</i> , 2020, 28, 706-714.	1.4	38
96	Tyrosine glycosylation of Rho by Yersinia toxin impairs blastomere cell behaviour in zebrafish embryos. <i>Nature Communications</i> , 2015, 6, 7807.	5.8	37
97	Role of T-loop Phosphorylation in PDK1 Activation, Stability, and Substrate Binding. <i>Journal of Biological Chemistry</i> , 2005, 280, 18797-18802.	1.6	36
98	Solid-phase synthesis of cyclic peptide chitinase inhibitors: SAR of the argifin scaffold. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 259-268.	1.5	35
99	Crystal Structure of the PTPL1/FAP-1 Human Tyrosine Phosphatase Mutated in Colorectal Cancer. <i>Journal of Biological Chemistry</i> , 2005, 280, 8180-8187.	1.6	34
100	Thio-Linked UDP-Peptide Conjugates as O-GlcNAc Transferase Inhibitors. <i>Bioconjugate Chemistry</i> , 2018, 29, 1834-1840.	1.8	34
101	Molecular mechanism of elongation factor 1A inhibition by a <i>Legionella pneumophila</i> glycosyltransferase. <i>Biochemical Journal</i> , 2010, 426, 281-292.	1.7	33
102	Dual functionality of O-GlcNAc transferase is required for <i>Drosophila</i> development. <i>Open Biology</i> , 2015, 5, 150234.	1.5	32
103	Conformational substates in different crystal forms of the photoactive yellow protein—Correlation with theoretical and experimental flexibility. <i>Protein Science</i> , 2000, 9, 64-72.	3.1	31
104	Essential Dynamics from NMR Clusters: Dynamic Properties of the Myb DNA-Binding Domain and a Hinge-Bending Enhancing Variant. <i>Methods</i> , 1998, 14, 318-328.	1.9	30
105	The O-GlcNAc Transferase Intellectual Disability Mutation L254F Distorts the TPR Helix. <i>Cell Chemical Biology</i> , 2018, 25, 513-518.e4.	2.5	30
106	Screening-based discovery of drug-like O-GlcNAcase inhibitor scaffolds. <i>FEBS Letters</i> , 2010, 584, 694-700.	1.3	29
107	Genetic and structural validation of <i>Aspergillus fumigatus</i> UDP-N-acetylglucosamine pyrophosphorylase as an antifungal target. <i>Molecular Microbiology</i> , 2013, 89, 479-493.	1.2	29
108	Evidence for a Functional O-Linked N-Acetylglucosamine (O-GlcNAc) System in the Thermophilic Bacterium <i>Thermobaculum terrenum</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 30291-30305.	1.6	29

#	ARTICLE	IF	CITATIONS
109	Loss of O-GlcNAcase catalytic activity leads to defects in mouse embryogenesis. <i>Journal of Biological Chemistry</i> , 2021, 296, 100439.	1.6	28
110	Crystal Structure of Carboxypeptidase A Complexed with d-Cysteine at 1.75 Å... Inhibitor-Induced Conformational Changes. <i>Biochemistry</i> , 2000, 39, 10082-10089.	1.2	27
111	Structural and functional characterization of a putative polysaccharide deacetylase of the human parasite <i>Encephalitozoon cuniculi</i> . <i>Protein Science</i> , 2009, 18, 1197-1209.	3.1	27
112	Chemical tools to probe cellular O-GlcNAc signalling. <i>Biochemical Journal</i> , 2013, 456, 1-12.	1.7	27
113	Structural and kinetic differences between human and <i>Aspergillus fumigatus</i> D-glucosamine-6-phosphate N-acetyltransferase. <i>Biochemical Journal</i> , 2008, 415, 217-223.	1.7	26
114	Dynamic Properties of the Guanine Nucleotide Binding Protein $\hat{\pm}$ Subunit and Comparison of Its Guanosine Triphosphate Hydrolase Domain with That of rasp21. <i>Biochemistry</i> , 1998, 37, 3137-3142.	1.2	24
115	Protein O-GlcNAcylation Is Required for Fibroblast Growth Factor Signaling in <i>Drosophila</i> . <i>Science Signaling</i> , 2011, 4, ra89.	1.6	24
116	Yeast Mnn9 is both a priming glycosyltransferase and an allosteric activator of mannan biosynthesis. <i>Open Biology</i> , 2013, 3, 130022.	1.5	24
117	Efficient synthesis of 1,3,7-substituted xanthines by a safety-catch protection strategy. <i>Tetrahedron</i> , 2007, 63, 12294-12302.	1.0	23
118	IQGAP Proteins Reveal an Atypical Phosphoinositide (aPI) Binding Domain with a Pseudo C2 Domain Fold. <i>Journal of Biological Chemistry</i> , 2012, 287, 22483-22496.	1.6	23
119	A Novel Allosteric Inhibitor of the Uridine Diphosphate N-Acetylglucosamine Pyrophosphorylase from <i>Trypanosoma brucei</i> . <i>ACS Chemical Biology</i> , 2013, 8, 1981-1987.	1.6	23
120	Effects of hypo-O-GlcNAcylation on <i>Drosophila</i> development. <i>Journal of Biological Chemistry</i> , 2018, 293, 7209-7221.	1.6	23
121	First Synthesis of Argadin: A Nanomolar Inhibitor of Family-18 Chitinases. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 5002-5006.	1.2	22
122	<i>Streptococcus mutans</i> SMU.623c Codes for a Functional, Metal-Dependent Polysaccharide Deacetylase That Modulates Interactions with Salivary Agglutinin. <i>Journal of Bacteriology</i> , 2009, 191, 394-402.	1.0	22
123	Genetic and structural validation of <i>Aspergillus fumigatus</i> N-acetylphosphoglucosamine mutase as an antifungal target. <i>Bioscience Reports</i> , 2013, 33, .	1.1	22
124	Tools for functional dissection of site-specific O-GlcNAcylation. <i>RSC Chemical Biology</i> , 2020, 1, 98-109.	2.0	22
125	Proteolysis of HCF-1 by Ser/Thr glycosylation-incompetent O-GlcNAc transferase:UDP-GlcNAc complexes. <i>Genes and Development</i> , 2016, 30, 960-972.	2.7	21
126	Direct Monitoring of Protein O-GlcNAcylation by High-Resolution Native Mass Spectrometry. <i>ACS Chemical Biology</i> , 2017, 12, 2078-2084.	1.6	21



#	ARTICLE	IF	CITATIONS
127	Novel Inositol Phospholipid Headgroup Surrogate Crystallized in the Pleckstrin Homology Domain of Protein Kinase B $\pm$ . ACS Chemical Biology, 2007, 2, 242-246.	1.6	20
128	Bisdionin C $\hat{e}$ A Rationally Designed, Submicromolar Inhibitor of Family 18 Chitinases. ACS Medicinal Chemistry Letters, 2011, 2, 428-432.	1.3	20
129	A mechanism-inspired UDP-N-acetylglucosamine pyrophosphorylase inhibitor. RSC Chemical Biology, 2020, 1, 13-25.	2.0	20
130	Mechanisms of redundancy and specificity of the Aspergillus fumigatus Crh transglycosylases. Nature Communications, 2019, 10, 1669.	5.8	18
131	Charge-Surrounded Pockets and Electrostatic Interactions with Small Ions Modulate the Activity of Retroviral Fusion Proteins. PLoS Pathogens, 2011, 7, e1001268.	2.1	17
132	Loss of CRMP2 O-GlcNAcylation leads to reduced novel object recognition performance in mice. Open Biology, 2019, 9, 190192.	1.5	17
133	Targeting a critical step in fungal hexosamine biosynthesis. Journal of Biological Chemistry, 2020, 295, 8678-8691.	1.6	16
134	O-GlcNAcase contributes to cognitive function in Drosophila. Journal of Biological Chemistry, 2020, 295, 8636-8646.	1.6	16
135	Glucose-6-phosphate as a probe for the glucosamine-6-phosphate N-acetyltransferase Michaelis complex. FEBS Letters, 2007, 581, 5597-5600.	1.3	15
136	Screening-based discovery of Aspergillus fumigatus plant-type chitinase inhibitors. FEBS Letters, 2014, 588, 3282-3290.	1.3	15
137	The Early Metazoan Trichoplax adhaerens Possesses a Functional O-GlcNAc System. Journal of Biological Chemistry, 2015, 290, 11969-11982.	1.6	15
138	Structural and biochemical characterization of a trapped coenzyme A adduct of Caenorhabditis elegans glucosamine-6-phosphate N-acetyltransferase 1. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1019-1029.	2.5	14
139	Structure of the photoactive yellow protein reconstituted with caffeic acid at 1.16 $\hat{e}$ resolution. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 585-590.	2.5	13
140	Engineering Photocycle Dynamics. Journal of Biological Chemistry, 2002, 277, 6463-6468.	1.6	12
141	The transfer of transthyretin and receptor-binding properties from the plasma retinol-binding protein to the epididymal retinoic acid-binding protein. Biochemical Journal, 2002, 362, 265.	1.7	11
142	Highly specific inhibition of leukaemia virus membrane fusion by interaction of peptide antagonists with a conserved region of the coiled coil of envelope. Retrovirology, 2008, 5, 70.	0.9	11
143	A sweet TET-t $\hat{e}$ -synergy of TET proteins and O-GlcNAc transferase in transcription. EMBO Journal, 2013, 32, 612-613.	3.5	11
144	An efficient and versatile synthesis of GlcNAcstatins $\hat{e}$ potent and selective O-GlcNAcase inhibitors built on the tetrahydroimidazo[1,2-a]pyridine scaffold. Tetrahedron, 2010, 66, 7838-7849.	1.0	9

#	ARTICLE	IF	CITATIONS
145	The citron homology domain as a scaffold for Rho1 signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
146	UDP-GlcNAc Analogues as Inhibitors of UDP-GlcNAc Transferase (OGT): Spectroscopic, Computational, and Biological Studies. <i>Chemistry - A European Journal</i> , 2018, 24, 7264-7272.	1.7	8
147	O-GlcNAcase Fragment Discovery with Fluorescence Polarimetry. <i>ACS Chemical Biology</i> , 2018, 13, 1353-1360.	1.6	8
148	Inhibitors against Fungal Cell Wall Remodeling Enzymes. <i>ChemMedChem</i> , 2018, 13, 128-132.	1.6	7
149	The conserved threonine-rich region of the HCF-1PRO repeat activates promiscuous OGT:UDP-GlcNAc glycosylation and proteolysis activities. <i>Journal of Biological Chemistry</i> , 2018, 293, 17754-17768.	1.6	7
150	Genetic and structural validation of phosphomannomutase as a cell wall target in <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , 2021, 116, 245-259.	1.2	7
151	Intellectual disability-associated disruption of O-GlcNAc cycling impairs habituation learning in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2022, 18, e1010159.	1.5	7
152	Crystallization and X-ray diffraction studies of the fatty-acid responsive transcription factor FadR from <i>Escherichia coli</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 469-471.	2.5	6
153	Crystallization and X-ray diffraction analysis of peroxisomal 3'-enoyl-CoA isomerase from <i>Saccharomyces cerevisiae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 1020-1023.	2.5	5
154	Purification, crystallization and preliminary X-ray diffraction of a proteolytic fragment of PDK1 containing the pleckstrin homology domain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 314-316.	2.5	4
155	O-GlcNAc transfer: size matters. <i>Nature Chemical Biology</i> , 2011, 7, 134-135.	3.9	4
156	Native detection of protein O-GlcNAcylation by gel electrophoresis. <i>Analyst</i> , 2020, 145, 6826-6830.	1.7	4
157	Bioinformatic prediction of putative conveyers of O-GlcNAc transferase intellectual disability. <i>Journal of Biological Chemistry</i> , 2022, 298, 102276.	1.6	4
158	Purification, crystallization and preliminary X-ray diffraction data of UDP-galactopyranose mutase from <i>Aspergillus fumigatus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 705-708.	0.7	3
159	A missense mutation in a patient with developmental delay affects the activity and structure of the hexosamine biosynthetic pathway enzyme AGX1. <i>FEBS Letters</i> , 2021, 595, 110-122.	1.3	3
160	A mouse model for functional dissection of TAB1 O-GlcNAcylation. <i>Wellcome Open Research</i> , 2019, 4, 128.	0.9	3
161	Genetic validation of <i>Aspergillus fumigatus</i> phosphoglucomutase as a viable therapeutic target in invasive aspergillosis. <i>Journal of Biological Chemistry</i> , 2022, 298, 102003.	1.6	3
162	Synthesis and Structure-based Dissection of Cyclic Peptide Chitinase Inhibitors: New Leads for Antifungal and Anti-Inflammatory Drugs. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 525-526.	0.8	2

#	ARTICLE	IF	CITATIONS
163	A mouse model for functional dissection of TAB1 O-GlcNAcylation. Wellcome Open Research, 2019, 4, 128.	0.9	2
164	Natural Product Family 18 Chitinase Inhibitors. ChemInform, 2006, 37, no.	0.1	1
165	Putting glycobiochemistry on a structural footing. Current Opinion in Structural Biology, 2008, 18, 525-526.	2.6	0
166	Comparative structural analysis of retroviral fusion proteins identifies regions that modulate membrane fusion: a potential retroviral achilles heel?. Retrovirology, 2011, 8, .	0.9	0
167	SPPS of the Natural Product Chitinase Inhibitor Argifin: Library Generation and Biological Evaluation. Advances in Experimental Medicine and Biology, 2009, 611, 143-144.	0.8	0