Dominic S Alonzi

List of Publications by Citations

44 papers	1,232 citations	21 h-index	34 g-index
46 ext. papers	1,397 ext. citations	6.7 avg, IF	3.86 L-index

#	Paper	IF	Citations
44	An iminosugar with potent inhibition of dengue virus infection in vivo. *Antiviral Research*, **2013**, 98, 35-43	10.8	75
43	Combination of α-glucosidase inhibitor and ribavirin for the treatment of dengue virus infection in vitro and in vivo. *Antiviral Research*, **2011**, 89, 26-34	10.8	73
42	Engineering hydrophobic protein-carbohydrate interactions to fine-tune monoclonal antibodies. *Journal of the American Chemical Society*, **2013**, 135, 9723-32	16.4	71
41	Glucosylated free oligosaccharides are biomarkers of endoplasmic- reticulum alpha-glucosidase inhibition. *Biochemical Journal*, **2008**, 409, 571-80	3.8	69
40	Synthesis and biological characterisation of novel N-alkyl-deoxynojirimycin alpha-glucosidase inhibitors. *ChemBioChem*, **2009**, 10, 1101-5	3.8	67
39	Small molecule inhibitors of ER α-glucosidases are active against multiple hemorrhagic fever viruses. *Antiviral Research*, **2013**, 98, 432-40	10.8	61
38	Structural and mechanistic insight into N-glycan processing by endo-α-mannosidase. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 781-6	11.5	61
37	Inhibitors of endoplasmic reticulum alpha-glucosidases potently suppress hepatitis C virus virion assembly and release. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 1036-44	5.9	55
36	Iminosugar antivirals: the therapeutic sweet spot. *Biochemical Society Transactions*, **2017**, 45, 571-582	5.1	53
35	Iminosugars Inhibit Dengue Virus Production via Inhibition of ER Alpha-Glucosidases--Not Glycolipid Processing Enzymes. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004524	4.8	51
34	Structures of mammalian ER α-glucosidase II capture the binding modes of broad-spectrum iminosugar antivirals. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4630-8	11.5	46
33	C-branched iminosugars: α-glucosidase inhibition by enantiomers of isoDMDP, isoDGDP, and isoDAB-L-isoDMDP compared to miglitol and miglustat. *Journal of Organic Chemistry*, **2013**, 78, 7380-97	4.2	40
32	Cystic fibrosis and diabetes: isoLAB and isoDAB, enantiomeric carbon-branched pyrrolidine iminosugars. *Tetrahedron Letters*, **2010**, 51, 4170-4174	2	40
31	Selection of the biological activity of DNJ neoglycoconjugates through click length variation of the side chain. *Organic and Biomolecular Chemistry*, **2011**, 9, 5373-88	3.9	39
30	Inhibition of endoplasmic reticulum glucosidases is required for in vitro and in vivo dengue antiviral activity by the iminosugar UV-4. *Antiviral Research*, **2016**, 129, 93-98	10.8	38
29	4-C-Me-DAB and 4-C-Me-LAB - enantiomeric alkyl-branched pyrrolidine iminosugars - are specific and potent α-glucosidase inhibitors; acetone as the sole protecting group. *Tetrahedron Letters*, **2011**, 52, 219-223	2	33
28	Interdomain conformational flexibility underpins the activity of UGGT, the eukaryotic glycoprotein secretion checkpoint. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 8544-8549	11.5	33

27	Glycosphingolipid synthesis inhibition limits osteoclast activation and myeloma bone disease. *Journal of Clinical Investigation*, **2015**, 125, 2279-92	15.9	29
26	Assessing Antigen Structural Integrity through Glycosylation Analysis of the SARS-CoV-2 Viral Spike. *ACS Central Science*, **2021**, 7, 586-593	16.8	26
25	ToP-DNJ, a Selective Inhibitor of Endoplasmic Reticulum Glucosidase II Exhibiting Antiflaviviral Activity. *ACS Chemical Biology*, **2018**, 13, 60-65	4.9	22
24	Improved cellular inhibitors for glycoprotein processing glucosidases: biological characterisation of alkyl- and arylalkyl-N-substituted deoxynojirimycins. *Tetrahedron: Asymmetry*, **2009**, 20, 897-901		21
23	A Novel Iminosugar UV-12 with Activity against the Diverse Viruses Influenza and Dengue (Novel Iminosugar Antiviral for Influenza and Dengue). *Viruses*, **2015**, 7, 2404-27	6.2	20
22	Targeting Endoplasmic Reticulum Glucosidase I with a Single-Dose Iminosugar Treatment Protects against Lethal Influenza and Dengue Virus Infections. *Journal of Medicinal Chemistry*, **2020**, 63, 4205-4214	8.3	19
21	Novel mannosidase inhibitors probe glycoprotein degradation pathways in cells. *Glycoconjugate Journal*, **2009**, 26, 1109-16	3	19
20	Towards a stable noeuromycin analog with a D-manno configuration: synthesis and glycosidase inhibition of D-manno-like tri- and tetrahydroxylated azepanes. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 641-9	3.4	18
19	Glycoprotein misfolding in the endoplasmic reticulum: identification of released oligosaccharides reveals a second ER-associated degradation pathway for Golgi-retrieved proteins. *Cellular and Molecular Life Sciences*, **2013**, 70, 2799-814	10.3	18
18	Hydrophilic interaction liquid chromatography of anthranilic acid-labelled oligosaccharides with a 4-aminobenzoic acid ethyl ester-labelled dextran hydrolysate internal standard. *Journal of Chromatography A*, **2012**, 1233, 66-70	4.5	17
17	Therapeutic targets for inhibitors of glycosylation. *Chimia*, **2011**, 65, 35-9	1.3	16
16	Demonstration that endoplasmic reticulum-associated degradation of glycoproteins can occur downstream of processing by endomannosidase. *Biochemical Journal*, **2011**, 438, 133-42	3.8	14
15	Non-specific accumulation of glycosphingolipids in GNE myopathy. *Journal of Inherited Metabolic Disease*, **2014**, 37, 297-308	5.4	10
14	Minimal In Vivo Efficacy of Iminosugars in a Lethal Ebola Virus Guinea Pig Model. *PLoS ONE*, **2016**, 11, e0167018	3.7	10
13	Analysis of SARS-CoV-2 spike glycosylation reveals shedding of a vaccine candidate		10
12	Structural Insights into the Broad-Spectrum Antiviral Target Endoplasmic Reticulum Alpha-Glucosidase II. *Advances in Experimental Medicine and Biology*, **2018**, 1062, 265-276	3.6	8
11	Amine-linked diglycosides: Synthesis facilitated by the enhanced reactivity of allylic electrophiles, and glycosidase inhibition assays. *Beilstein Journal of Organic Chemistry*, **2011**, 7, 1115-23	2.5	7
10	Urinary glycan markers for disease. *Biochemical Society Transactions*, **2011**, 39, 393-8	5.1	7

9	Carbasugar-thioether pseudodisaccharides related to N-glycan biosynthesis. *Carbohydrate Research*, **2009**, 344, 454-9	2.9	7
8	Synthesis and β-Glucosidase II inhibitory activity of valienamine pseudodisaccharides relevant to N-glycan biosynthesis. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 5219-23	2.9	6
7	Restricted processing of glycans by endomannosidase in mammalian cells. *Glycobiology*, **2012**, 22, 1282-8	3.8	5
6	Clamping, bending, and twisting inter-domain motions in the misfold-recognizing portion of UDP-glucose: Glycoprotein glucosyltransferase. *Structure*, **2021**, 29, 357-370.e9	5.2	5
5	Structure of human endo-α1,2-mannosidase (MANEA), an antiviral host-glycosylation target. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29595-29601	11.5	4
4	Fleetamine (3-O-β-d-glucopyranosyl-swainsonine): the synthesis of a hypothetical inhibitor of endo-α-mannosidase. *Tetrahedron: Asymmetry*, **2012**, 23, 992-997		3
3	Hepatitis C virus E2 envelope glycoprotein produced in Nicotiana benthamiana triggers humoral response with virus-neutralizing activity in vaccinated mice. *Plant Biotechnology Journal*, **2021**, 19, 2027-2039	11.6	2
2	Antiviral effects of deoxynojirimycin (DNJ)-based iminosugars in dengue virus-infected primary dendritic cells.. *Antiviral Research*, **2022**, 105269	10.8	2
1	Clamping, bending, and twisting inter-domain motions in the misfold-recognising portion of UDP-glucose:glycoprotein glucosyl-transferase		1