

# Dominic S Alonzi

## List of Publications by Year in descending order

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43  
papers

1,519  
citations

331259

21  
h-index

315357

38  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1973  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combination of $\alpha$ -glucosidase inhibitor and ribavirin for the treatment of dengue virus infection in vitro and in vivo. <i>Antiviral Research</i> , 2011, 89, 26-34.	1.9	83
2	An iminosugar with potent inhibition of dengue virus infection in vivo. <i>Antiviral Research</i> , 2013, 98, 35-43.	1.9	83
3	Engineering Hydrophobic Protein-Carbohydrate Interactions to Fine-Tune Monoclonal Antibodies. <i>Journal of the American Chemical Society</i> , 2013, 135, 9723-9732.	6.6	78
4	Iminosugar antivirals: the therapeutic sweet spot. <i>Biochemical Society Transactions</i> , 2017, 45, 571-582.	1.6	78
5	Synthesis and Biological Characterisation of Novel $\alpha$ -Alkyl-Deoxynojirimycin $\alpha$ -Glucosidase Inhibitors. <i>ChemBioChem</i> , 2009, 10, 1101-1105.	1.3	75
6	Structural and mechanistic insight into N-glycan processing by endo- $\alpha$ -mannosidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 781-786.	3.3	74
7	Small molecule inhibitors of ER $\alpha$ -glucosidases are active against multiple hemorrhagic fever viruses. <i>Antiviral Research</i> , 2013, 98, 432-440.	1.9	72
8	Glucosylated free oligosaccharides are biomarkers of endoplasmic- reticulum $\alpha$ -glucosidase inhibition. <i>Biochemical Journal</i> , 2008, 409, 571-580.	1.7	71
9	Iminosugars Inhibit Dengue Virus Production via Inhibition of ER Alpha-Glucosidases-Not Glycolipid Processing Enzymes. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004524.	1.3	69
10	Assessing Antigen Structural Integrity through Glycosylation Analysis of the SARS-CoV-2 Viral Spike. <i>ACS Central Science</i> , 2021, 7, 586-593.	5.3	68
11	Structures of mammalian ER $\alpha$ -glucosidase II capture the binding modes of broad-spectrum iminosugar antivirals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4630-8.	3.3	65
12	Inhibitors of Endoplasmic Reticulum $\alpha$ -Glucosidases Potently Suppress Hepatitis C Virus Virion Assembly and Release. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 1036-1044.	1.4	58
13	Inhibition of endoplasmic reticulum glucosidases is required for in vitro and in vivo dengue antiviral activity by the iminosugar UV-4. <i>Antiviral Research</i> , 2016, 129, 93-98.	1.9	52
14	Interdomain conformational flexibility underpins the activity of UGGT, the eukaryotic glycoprotein secretion checkpoint. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8544-8549.	3.3	48
15	$\alpha$ -Branched Iminosugars: $\alpha$ -Glucosidase Inhibition by Enantiomers of isoDMDP, isoDCGP, and isoDAB-isoDMDP Compared to Miglitol and Miglustat. <i>Journal of Organic Chemistry</i> , 2013, 78, 7380-7397.	1.7	44
16	Cystic fibrosis and diabetes: isoLAB and isoDAB, enantiomeric carbon-branched pyrrolidine iminosugars. <i>Tetrahedron Letters</i> , 2010, 51, 4170-4174.	0.7	42
17	Selection of the biological activity of DNJ neoglycoconjugates through click length variation of the side chain. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5373.	1.5	42
18	Glycosphingolipid synthesis inhibition limits osteoclast activation and myeloma bone disease. <i>Journal of Clinical Investigation</i> , 2015, 125, 2279-2292.	3.9	39

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19	Targeting Endoplasmic Reticulum $\alpha$ -Glucosidase I with a Single-Dose Iminosugar Treatment Protects against Lethal Influenza and Dengue Virus Infections. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4205-4214.	2.9	37
20	4-C-Me-DAB and 4-C-Me-LAB are enantiomeric alkyl-branched pyrrolidine iminosugars are specific and potent $\alpha$ -glucosidase inhibitors; acetone as the sole protecting group. <i>Tetrahedron Letters</i> , 2011, 52, 219-223.	0.7	35
21	ToP-DNJ, a Selective Inhibitor of Endoplasmic Reticulum $\alpha$ -Glucosidase II Exhibiting Antiflaviviral Activity. <i>ACS Chemical Biology</i> , 2018, 13, 60-65.	1.6	28
22	Improved cellular inhibitors for glycoprotein processing $\alpha$ -glucosidases: biological characterisation of alkyl- and arylalkyl-N-substituted deoxynojirimycins. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 897-901.	1.8	21
23	A Novel Iminosugar UV-12 with Activity against the Diverse Viruses Influenza and Dengue (Novel) Tj ETQq1 1 0.784314 rgBT /Overlock 21	1.5	21
24	Glycoprotein misfolding in the endoplasmic reticulum: identification of released oligosaccharides reveals a second ER-associated degradation pathway for Golgi-retrieved proteins. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2799-2814.	2.4	20
25	Novel mannosidase inhibitors probe glycoprotein degradation pathways in cells. <i>Glycoconjugate Journal</i> , 2009, 26, 1109-1116.	1.4	19
26	Towards a stable noeuromycin analog with a d-manno configuration: Synthesis and glycosidase inhibition of d-manno-like tri- and tetrahydroxylated azepanes. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 641-649.	1.4	19
27	Hydrophilic interaction liquid chromatography of anthranilic acid-labelled oligosaccharides with a 4-aminobenzoic acid ethyl ester-labelled dextran hydrolysate internal standard. <i>Journal of Chromatography A</i> , 2012, 1233, 66-70.	1.8	17
28	Therapeutic Targets for Inhibitors of Glycosylation. <i>Chimia</i> , 2011, 65, 35.	0.3	16
29	Demonstration that endoplasmic reticulum-associated degradation of glycoproteins can occur downstream of processing by endomannosidase. <i>Biochemical Journal</i> , 2011, 438, 133-142.	1.7	15
30	Clamping, bending, and twisting inter-domain motions in the misfold-recognizing portion of UDP-glucose: Glycoprotein glucosyltransferase. <i>Structure</i> , 2021, 29, 357-370.e9.	1.6	15
31	Structure of human endo- $\alpha$ -1,2-mannosidase (MANEA), an antiviral host-glycosylation target. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29595-29601.	3.3	14
32	Non-specific accumulation of glycosphingolipids in GNE myopathy. <i>Journal of Inherited Metabolic Disease</i> , 2014, 37, 297-308.	1.7	11
33	Minimal In Vivo Efficacy of Iminosugars in a Lethal Ebola Virus Guinea Pig Model. <i>PLoS ONE</i> , 2016, 11, e0167018.	1.1	11
34	Restricted processing of glycans by endomannosidase in mammalian cells. <i>Glycobiology</i> , 2012, 22, 1282-1288.	1.3	9
35	Carbasugar thioether pseudodisaccharides related to N-glycan biosynthesis. <i>Carbohydrate Research</i> , 2009, 344, 454-459.	1.1	8
36	Synthesis and $\alpha$ -Glucosidase II inhibitory activity of valienamine pseudodisaccharides relevant to N-glycan biosynthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5219-5223.	1.0	8

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37	Structural Insights into the Broad-Spectrum Antiviral Target Endoplasmic Reticulum Alpha-Glucosidase II. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1062, 265-276.	0.8	8
38	Hepatitis C virus E2 envelope glycoprotein produced in <i>Nicotiana benthamiana</i> triggers humoral response with virus-neutralizing activity in vaccinated mice. <i>Plant Biotechnology Journal</i> , 2021, 19, 2027-2039.	4.1	8
39	Amine-linked diglycosides: Synthesis facilitated by the enhanced reactivity of allylic electrophiles, and glycosidase inhibition assays. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 1115-1123.	1.3	7
40	Urinary glycan markers for disease. <i>Biochemical Society Transactions</i> , 2011, 39, 393-398.	1.6	7
41	Fleetamine (3-O-d-glucopyranosyl-swainsonine): the synthesis of a hypothetical inhibitor of endo-mannosidase. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 992-997.	1.8	5
42	Antiviral effects of deoxynojirimycin (DNJ)-based iminosugars in dengue virus-infected primary dendritic cells. <i>Antiviral Research</i> , 2022, 199, 105269.	1.9	4
43	Analysis of Free Oligosaccharides (fOS) from Wild-Type <i>Saccharomyces cerevisiae</i> (Baker's Yeast) using Two Different Extraction Methods. <i>Sains Malaysiana</i> , 2020, 49, 85-92.	0.3	3