

# Sandra L Diaz

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,582  
citations

516710

16  
h-index

677142

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Human-Specific Alleles Protecting Cognitive Function of Grandmothers. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	2
2	Reversible <i>O</i> -Acetyl Migration within the Sialic Acid Side Chain and Its Influence on Protein Recognition. <i>ACS Chemical Biology</i> , 2021, 16, 1951-1960.	3.4	19
3	Evolutionary conservation of human ketodeoxynonulosonic acid production is independent of sialoglycan biosynthesis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	14
4	Are sialic acids involved in COVID-19 pathogenesis?. <i>Glycobiology</i> , 2021, 31, 1068-1071.	2.5	22
5	Serum Antibodies to N-Glycolylneuraminic Acid Are Elevated in Duchenne Muscular Dystrophy and Correlate with Increased Disease Pathology in Cmahmdx Mice. <i>American Journal of Pathology</i> , 2021, 191, 1474-1486.	3.8	4
6	Chemoenzymatic Synthesis of Sialosides Containing 7- <i>N</i> - or 7,9-Di- <i>N</i> -acetyl Sialic Acid as Stable <i>O</i> -Acetyl Analogues for Probing Sialic Acid-Binding Proteins. <i>Journal of Organic Chemistry</i> , 2021, 86, 14381-14397.	3.2	9
7	Improved methods to characterize the length and quantity of highly unstable PolySialic acids subject category: (Carbohydrates, chromatographic techniques). <i>Analytical Biochemistry</i> , 2021, 635, 114426.	2.4	1
8	Gut bacteria responding to dietary change encode sialidases that exhibit preference for red meat-associated carbohydrates. <i>Nature Microbiology</i> , 2019, 4, 2082-2089.	13.3	56
9	Polyclonal human antibodies against glycans bearing red meat-derived non-human sialic acid N-glycolylneuraminic acid are stable, reproducible, complex and vary between individuals: Total antibody levels are associated with colorectal cancer risk. <i>PLoS ONE</i> , 2018, 13, e0197464.	2.5	45
10	Human evolutionary loss of epithelial Neu5Gc expression and species-specific susceptibility to cholera. <i>PLoS Pathogens</i> , 2018, 14, e1007133.	4.7	33
11	Encoding and Estimating the Remarkable Diversity of Possible Sialyltrisaccharides in Nature. <i>FASEB Journal</i> , 2018, 32, 673.22.	0.5	0
12	Rapid Evolution of Bacterial Exotoxin B Subunits Independent of A subunits: Sialic Acid Binding Preferences Correlate with Host Range and Intrinsic Toxicity. <i>FASEB Journal</i> , 2018, 32, 673.3.	0.5	0
13	A red meat-derived glycan promotes inflammation and cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 542-547.	7.1	327
14	Utilizing CMP-Sialic Acid Analogs to Unravel Neisseria gonorrhoeae Lipooligosaccharide-Mediated Complement Resistance and Design Novel Therapeutics. <i>PLoS Pathogens</i> , 2015, 11, e1005290.	4.7	53
15	Diet-derived Xenautoantigen Sialic acid Promotes Inflammation – Evidence for ‘Xenosialitis’. <i>FASEB Journal</i> , 2013, 27, .	0.5	0
16	Intracellular fate of the non-human sialic acid N-glycolylneuraminic acid. <i>FASEB Journal</i> , 2012, 26, 793.1.	0.5	0
17	Sensitive and Specific Detection of the Non-Human Sialic Acid N-Glycolylneuraminic Acid In Human Tissues and Biotherapeutic Products. <i>PLoS ONE</i> , 2009, 4, e4241.	2.5	127
18	System-wide Genomic and Biochemical Comparisons of Sialic Acid Biology Among Primates and Rodents. <i>Journal of Biological Chemistry</i> , 2006, 281, 25689-25702.	3.4	52

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19	Mechanism of Uptake and Incorporation of the Non-human Sialic Acid N-Glycolylneuraminic Acid into Human Cells*. Journal of Biological Chemistry, 2005, 280, 4228-4237.	3.4	338
20	Human uptake and incorporation of an immunogenic nonhuman dietary sialic acid. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12045-12050.	7.1	556
21	Inactivation of CMP-N-acetylneuraminic acid hydroxylase occurred prior to brain expansion during human evolution. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11736-11741.	7.1	313
22	Proteomic comparison of human and great ape blood plasma reveals conserved glycosylation and differences in thyroid hormone metabolism. American Journal of Physical Anthropology, 2001, 115, 99-109.	2.1	42
23	A structural difference between the cell surfaces of humans and the great apes. American Journal of Physical Anthropology, 1998, 107, 187-198.	2.1	155
24	High-pressure liquid chromatography of sialic acids on a pellicular resin anion-exchange column with pulsed amperometric detection: A comparison with six other systems. Analytical Biochemistry, 1990, 188, 20-32.	2.4	148
25	The release and purification of sialic acids from glycoconjugates: Methods to minimize the loss and migration of O-acetyl groups. Analytical Biochemistry, 1984, 137, 236-247.	2.4	260