

# 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	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
2	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
3	A red meat-derived glycan promotes inflammation and cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 542-547.	7.1	327
4	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
5	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
6	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
7	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
8	Sensitive and Specific Detection of the Non-Human Sialic Acid N-Glycolylneuraminic Acid In Human Tissues and Biotherapeutic Products. PLoS ONE, 2009, 4, e4241.	2.5	127
9	Gut bacteria responding to dietary change encode sialidases that exhibit preference for red meat-associated carbohydrates. Nature Microbiology, 2019, 4, 2082-2089.	13.3	56
10	Utilizing CMP-Sialic Acid Analogs to Unravel Neisseria gonorrhoeae Lipooligosaccharide-Mediated Complement Resistance and Design Novel Therapeutics. PLoS Pathogens, 2015, 11, e1005290.	4.7	53
11	System-wide Genomic and Biochemical Comparisons of Sialic Acid Biology Among Primates and Rodents. Journal of Biological Chemistry, 2006, 281, 25689-25702.	3.4	52
12	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. PLoS ONE, 2018, 13, e0197464.	2.5	45
13	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
14	Human evolutionary loss of epithelial Neu5Gc expression and species-specific susceptibility to cholera. PLoS Pathogens, 2018, 14, e1007133.	4.7	33
15	Are sialic acids involved in COVID-19 pathogenesis?. Glycobiology, 2021, 31, 1068-1071.	2.5	22
16	Reversible <i>O</i> -Acetyl Migration within the Sialic Acid Side Chain and Its Influence on Protein Recognition. ACS Chemical Biology, 2021, 16, 1951-1960.	3.4	19
17	Evolutionary conservation of human ketodeoxynonulosonic acid production is independent of sialoglycan biosynthesis. Journal of Clinical Investigation, 2021, 131, .	8.2	14
18	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. Journal of Organic Chemistry, 2021, 86, 14381-14397.	3.2	9

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19	Serum Antibodies to N-Glycolylneuraminic Acid Are Elevated in Duchenne Muscular Dystrophy and Correlate with Increased Disease Pathology in Cmahmdx Mice. American Journal of Pathology, 2021, 191, 1474-1486.	3.8	4
20	Evolution of Human-Specific Alleles Protecting Cognitive Function of Grandmothers. Molecular Biology and Evolution, 2022, 39, .	8.9	2
21	Improved methods to characterize the length and quantity of highly unstable PolySialic acids subject category: (Carbohydrates, chromatographic techniques). Analytical Biochemistry, 2021, 635, 114426.	2.4	1
22	Intracellular fate of the non-human sialic acid N-glycolylneuraminic acid. FASEB Journal, 2012, 26, 793.1.	0.5	0
23	Diet-derived Xenoautoantigen Sialic acid Promotes Inflammation -Evidence for Xenosialitis. FASEB Journal, 2013, 27, .	0.5	0
24	Encoding and Estimating the Remarkable Diversity of Possible Sialyltrisaccharides in Nature. FASEB Journal, 2018, 32, 673.22.	0.5	0
25	Rapid Evolution of Bacterial Exotoxin B Subunits Independent of A subunits: Sialic Acid Binding Preferences Correlate with Host Range and Intrinsic Toxicity. FASEB Journal, 2018, 32, 673.3.	0.5	0