

Paul L Deangelis

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nanoparticle Surface Engineering with Heparosan Polysaccharide Reduces Serum Protein Adsorption and Enhances Cellular Uptake. <i>Nano Letters</i> , 2022, 22, 2103-2111.	9.1	27
2	Optimizing the sensitivity and resolution of hyaluronan analysis with solid-state nanopores. <i>Scientific Reports</i> , 2022, 12, 4469.	3.3	13
3	Methods for isolating and analyzing physiological hyaluronan: a review. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C674-C687.	4.6	9
4	A quartz crystal microbalance method to quantify the size of hyaluronan and other glycosaminoglycans on surfaces. <i>Scientific Reports</i> , 2022, 12, .	3.3	9
5	Nanoparticle Toxicology. <i>Annual Review of Pharmacology and Toxicology</i> , 2021, 61, 269-289.	9.4	163
6	Strong Reduction of the Chain Rigidity of Hyaluronan by Selective Binding of Ca ²⁺ Ions. <i>Macromolecules</i> , 2021, 54, 1137-1146.	4.8	12
7	A primer for initiation of commercialization of glycobiological discoveries. <i>Glycobiology</i> , 2021, 31, 886-890.	2.5	0
8	Hyaluronic acid synthesis, degradation, and crosslinking in equine osteoarthritis: TNF- α -TSG-6-mediated HC-HA formation. <i>Arthritis Research and Therapy</i> , 2021, 23, 218.	3.5	9
9	Label-free analysis of physiological hyaluronan size distribution with a solid-state nanopore sensor. <i>Nature Communications</i> , 2018, 9, 1037.	12.8	73
10	Chemoenzymatic Synthesis of 4-Fluoro-N-Acetylhexosamine Uridine Diphosphate Donors: Chain Terminators in Glycosaminoglycan Synthesis. <i>Journal of Organic Chemistry</i> , 2017, 82, 2243-2248.	3.2	25
11	Expanding glycosaminoglycan chemical space: towards the creation of sulfated analogs, novel polymers and chimeric constructs. <i>Glycobiology</i> , 2017, 27, 646-656.	2.5	10
12	Heparan Sulfate Domains Required for Fibroblast Growth Factor 1 and 2 Signaling through Fibroblast Growth Factor Receptor 1c. <i>Journal of Biological Chemistry</i> , 2017, 292, 2495-2509.	3.4	43
13	Synthesis and characterization of heparosan-granulocyte-colony stimulating factor conjugates: a natural sugar-based drug delivery system to treat neutropenia. <i>Glycobiology</i> , 2017, 27, 1052-1061.	2.5	20
14	Synthesis of 4-Azido-N-acetylhexosamine Uridine Diphosphate Donors: Clickable Glycosaminoglycans. <i>Journal of Organic Chemistry</i> , 2017, 82, 9910-9915.	3.2	13
15	Heparosan-coated liposomes for drug delivery. <i>Glycobiology</i> , 2017, 27, 1062-1074.	2.5	31
16	Identification of a chondroitin synthase from an unexpected source, the green sulfur bacterium <i>Chlorobium phaeobacteroides</i> . <i>Glycobiology</i> , 2017, 27, cw008.	2.5	11
17	Heparosan, a promising "naturally good" polymeric conjugating vehicle for delivery of injectable therapeutics. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 349-352.	5.0	22
18	A Refined Model for the TSG-6 Link Module in Complex with Hyaluronan. <i>Journal of Biological Chemistry</i> , 2014, 289, 5619-5634.	3.4	46

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19	Fibroblast Growth Factor-based Signaling through Synthetic Heparan Sulfate Blocks Copolymers Studied Using High Cell Density Three-dimensional Cell Printing. <i>Journal of Biological Chemistry</i> , 2014, 289, 9754-9765.	3.4	26
20	Irreversible Heavy Chain Transfer to Chondroitin. <i>Journal of Biological Chemistry</i> , 2014, 289, 29171-29179.	3.4	4
21	N-Sulfotestosteron, A Novel Substrate for Heparan Sulfate 6-O-Sulfotransferases and its Analysis by Oxidative Degradation. <i>Biopolymers</i> , 2013, 99, 675-685.	2.4	5
22	Hyaluronan in cytosol-Microinjection-based probing of its existence and suggested functions. <i>Glycobiology</i> , 2013, 23, 222-231.	2.5	14
23	Chemoenzymatic synthesis of glycosaminoglycans: Re-creating, re-modeling and re-designing nature's longest or most complex carbohydrate chains. <i>Glycobiology</i> , 2013, 23, 764-777.	2.5	126
24	Methods for the Pasteurella Glycosaminoglycan Synthases: Enzymes that Polymerize Hyaluronan, Chondroitin, or Heparosan Chains. <i>Methods in Molecular Biology</i> , 2013, 1022, 215-227.	0.9	5
25	Structure/Function Analysis of Pasteurella multocida Heparosan Synthases. <i>Journal of Biological Chemistry</i> , 2012, 287, 7203-7212.	3.4	32
26	Chemoenzymatic Synthesis of Uridine Diphosphate-GlcNAc and Uridine Diphosphate-GalNAc Analogs for the Preparation of Unnatural Glycosaminoglycans. <i>Journal of Organic Chemistry</i> , 2012, 77, 1449-1456.	3.2	61
27	Glycosaminoglycan polysaccharide biosynthesis and production: today and tomorrow. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 295-305.	3.6	118
28	Comamonas testosteron synthase, a bifunctional glycosyltransferase that produces a unique heparosan polysaccharide analog. <i>Glycobiology</i> , 2011, 21, 1331-1340.	2.5	8
29	Chemoenzymatic Design of Heparan Sulfate Oligosaccharides*. <i>Journal of Biological Chemistry</i> , 2010, 285, 34240-34249.	3.4	138
30	Glycosaminoglycan Synthases: Catalysts for Customizing Sugar Polymer Size and Chemistry. <i>ACS Symposium Series</i> , 2010, , 299-303.	0.5	1
31	Synthesis of Uridine 5â€²-diphosphoiduronic Acid: A Potential Substrate for the Chemoenzymatic Synthesis of Heparin. <i>Journal of Organic Chemistry</i> , 2008, 73, 7631-7637.	3.2	23
32	Monodisperse Hyaluronan Polymers: Synthesis and Potential Applications. <i>Current Pharmaceutical Biotechnology</i> , 2008, 9, 246-248.	1.6	30
33	Enzymatic Synthesis of Glycosaminoglycan Heparin. <i>Seminars in Thrombosis and Hemostasis</i> , 2007, 33, 453-465.	2.7	44
34	Acceptor Specificity of the Pasteurella Hyaluronan and Chondroitin Synthases and Production of Chimeric Glycosaminoglycans. <i>Journal of Biological Chemistry</i> , 2007, 282, 337-344.	3.4	30
35	Chemoenzymatic Synthesis with Distinct Pasteurella Heparosan Synthases. <i>Journal of Biological Chemistry</i> , 2007, 282, 28321-28327.	3.4	77
36	The functional molecular mass of the Pasteurella hyaluronan synthase is a monomer. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 286-290.	2.4	3

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37	Hyaluronan Synthases: A Decade-plus of Novel Glycosyltransferases. <i>Journal of Biological Chemistry</i> , 2007, 282, 36777-36781.	3.4	297
38	Enzymatic Synthesis of Glycosaminoglycans: Improving on Nature. <i>ACS Symposium Series</i> , 2007, , 253-284.	0.5	7
39	Hyaluronan: The Local Solution Conformation Determined by NMR and Computer Modeling is Close to a Contracted Left-handed 4-Fold Helix. <i>Journal of Molecular Biology</i> , 2006, 358, 1256-1269.	4.2	102
40	Hyaluronan: the absence of amide-carboxylate hydrogen bonds and the chain conformation in aqueous solution are incompatible with stable secondary and tertiary structure models. <i>Biochemical Journal</i> , 2006, 396, 487-498.	3.7	58
41	Defined megadalton hyaluronan polymer standards. <i>Analytical Biochemistry</i> , 2006, 355, 183-188.	2.4	22
42	Critical Elements of Oligosaccharide Acceptor Substrates for the <i>Pasteurella multocida</i> Hyaluronan Synthase. <i>Journal of Biological Chemistry</i> , 2006, 281, 5391-5397.	3.4	41
43	Functional Characterization of PmHS1, a <i>Pasteurella multocida</i> Heparosan Synthase. <i>Journal of Biological Chemistry</i> , 2006, 281, 33192-33197.	3.4	31
44	Towards a Structure for a TSG-6-Hyaluronan Complex by Modeling and NMR Spectroscopy. <i>Journal of Biological Chemistry</i> , 2005, 280, 18189-18201.	3.4	69
45	Biosynthesis of Hyaluronan. <i>Journal of Biological Chemistry</i> , 2005, 280, 8813-8818.	3.4	54
46	Hyaluronic Acid Production in <i>Bacillus subtilis</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 3747-3752.	3.1	250
47	Dynamics of Hyaluronan Oligosaccharides Revealed by ¹⁵ N Relaxation. <i>Journal of the American Chemical Society</i> , 2005, 127, 1086-1087.	13.7	32
48	Synchronized Chemoenzymatic Synthesis of Monodisperse Hyaluronan Polymers. <i>Journal of Biological Chemistry</i> , 2004, 279, 42345-42349.	3.4	122
49	Use of ¹⁵ N-NMR to resolve molecular details in isotopically-enriched carbohydrates: sequence-specific observations in hyaluronan oligomers up to decasaccharides. <i>Glycobiology</i> , 2004, 14, 999-1009.	2.5	56
50	Sugar Engineering with Glycosaminoglycan Synthases. <i>ACS Symposium Series</i> , 2004, , 125-137.	0.5	0
51	Identification of a Distinct, Cryptic Heparosan Synthase from <i>Pasteurella multocida</i> Types A, D, and F. <i>Journal of Bacteriology</i> , 2004, 186, 8529-8532.	2.2	49
52	Analysis of the two active sites of the hyaluronan synthase and the chondroitin synthase of <i>Pasteurella multocida</i> . <i>Glycobiology</i> , 2003, 13, 661-671.	2.5	66
53	The Link Module from Ovation- and Inflammation-associated Protein TSG-6 Changes Conformation on Hyaluronan Binding. <i>Journal of Biological Chemistry</i> , 2003, 278, 49261-49270.	3.4	81
54	Rapid Chemoenzymatic Synthesis of Monodisperse Hyaluronan Oligosaccharides with Immobilized Enzyme Reactors. <i>Journal of Biological Chemistry</i> , 2003, 278, 35199-35203.	3.4	93

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55	Alteration of Polysaccharide Size Distribution of a Vertebrate Hyaluronan Synthase by Mutation. <i>Journal of Biological Chemistry</i> , 2003, 278, 19808-19814.	3.4	36
56	Identification and Molecular Cloning of a Heparosan Synthase from <i>Pasteurella multocida</i> Type D. <i>Journal of Biological Chemistry</i> , 2002, 277, 7209-7213.	3.4	78
57	Microbial glycosaminoglycan glycosyltransferases. <i>Glycobiology</i> , 2002, 12, 9R-16.	2.5	125
58	HYALURONAN SYNTHASES: MECHANISTIC STUDIES AND BIOTECHNOLOGICAL APPLICATIONS. , 2002, , 227-236.		0
59	Evolution of glycosaminoglycans and their glycosyltransferases: Implications for the extracellular matrices of animals and the capsules of pathogenic bacteria. <i>The Anatomical Record</i> , 2002, 268, 317-326.	1.8	99
60	Identification of the capsular polysaccharides of Type D and F <i>Pasteurella multocida</i> as unmodified heparin and chondroitin, respectively. <i>Carbohydrate Research</i> , 2002, 337, 1547-1552.	2.3	95
61	Functional Molecular Mass of a Vertebrate Hyaluronan Synthase as Determined by Radiation Inactivation Analysis. <i>Journal of Biological Chemistry</i> , 2001, 276, 39832-39835.	3.4	26
62	Topological Organization of the Hyaluronan Synthase from <i>Streptococcus pyogenes</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 2037-2046.	3.4	83
63	Dissection of the two transferase activities of the <i>Pasteurella multocida</i> hyaluronan synthase: two active sites exist in one polypeptide. <i>Glycobiology</i> , 2000, 10, 883-889.	2.5	99
64	Identification and Molecular Cloning of a Chondroitin Synthase from <i>Pasteurella multocida</i> Type F. <i>Journal of Biological Chemistry</i> , 2000, 275, 24124-24129.	3.4	72
65	Molecular Directionality of Polysaccharide Polymerization by the <i>Pasteurella multocida</i> Hyaluronan Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 26557-26562.	3.4	95
66	Hyaluronan Synthesis in Virus PBCV-1-Infected <i>Chlorella</i> -like Green Algae. <i>Virology</i> , 1999, 257, 15-23.	2.4	71
67	Identification and Molecular Cloning of a Unique Hyaluronan Synthase from <i>Pasteurella multocida</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 8454-8458.	3.4	126
68	Transposon Tn916 insertional mutagenesis of <i>Pasteurella multocida</i> and direct sequencing of disruption site. <i>Microbial Pathogenesis</i> , 1998, 24, 203-209.	2.9	8
69	Hyaluronan Synthase of <i>Chlorella</i> Virus PBCV-1. <i>Science</i> , 1997, 278, 1800-1803.	12.6	125
70	Enzymological Characterization of the <i>Pasteurella multocida</i> Hyaluronic Acid Synthase. <i>Biochemistry</i> , 1996, 35, 9768-9771.	2.5	42
71	Yeast-derived Recombinant DG42 Protein of <i>Xenopus</i> Can Synthesize Hyaluronan in Vitro. <i>Journal of Biological Chemistry</i> , 1996, 271, 23657-23660.	3.4	56
72	Rapid detection of hyaluronic acid capsules on group a streptococci by buoyant density centrifugation. <i>Diagnostic Microbiology and Infectious Disease</i> , 1994, 20, 77-80.	1.8	5

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73	Immunochemical Confirmation of the Primary Structure of Streptococcal Hyaluronan Synthase and Synthesis of High Molecular Weight Product by the Recombinant Enzyme. <i>Biochemistry</i> , 1994, 33, 9033-9039.	2.5	109