

Daniel A Mitchell

List of Publications by Year in descending order

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73
papers

5,296
citations

109321

35
h-index

82547

72
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76
all docs

76
docs citations

76
times ranked

6170
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Basis for Selective Recognition of Oligosaccharides by DC-SIGN and DC-SIGNR. <i>Science</i> , 2001, 294, 2163-2166.	12.6	633
2	Structural basis for distinct ligand-binding and targeting properties of the receptors DC-SIGN and DC-SIGNR. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 591-598.	8.2	538
3	A Novel Mechanism of Carbohydrate Recognition by the C-type Lectins DC-SIGN and DC-SIGNR. <i>Journal of Biological Chemistry</i> , 2001, 276, 28939-28945.	3.4	462
4	Site-Directed Conjugation of α -Clicked Glycopolymers To Form Glycoprotein Mimics: Binding to Mammalian Lectin and Induction of Immunological Function. <i>Journal of the American Chemical Society</i> , 2007, 129, 15156-15163.	13.7	281
5	Synthetic polymers enable non-vitreous cellular cryopreservation by reducing ice crystal growth during thawing. <i>Nature Communications</i> , 2014, 5, 3244.	12.8	242
6	C1q Deficiency and Autoimmunity: The Effects of Genetic Background on Disease Expression. <i>Journal of Immunology</i> , 2002, 168, 2538-2543.	0.8	227
7	Sequence-Controlled Multi-Block Glycopolymers to Inhibit DC-SIGN gp120 Binding. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4435-4439.	13.8	218
8	High-Affinity Glycopolymer Binding to Human DC-SIGN and Disruption of DC-SIGN Interactions with HIV Envelope Glycoprotein. <i>Journal of the American Chemical Society</i> , 2010, 132, 15130-15132.	13.7	180
9	Extended Neck Regions Stabilize Tetramers of the Receptors DC-SIGN and DC-SIGNR. <i>Journal of Biological Chemistry</i> , 2005, 280, 1327-1335.	3.4	158
10	Dendritic Cell Lectin-Targeting Sentinel-like Unimolecular Glycoconjugates To Release an Anti-HIV Drug. <i>Journal of the American Chemical Society</i> , 2014, 136, 4325-4332.	13.7	137
11	Paths reunited: Initiation of the classical and lectin pathways of complement activation. <i>Immunobiology</i> , 2010, 215, 1-11.	1.9	135
12	Dissecting the Molecular Mechanism of IVIg Therapy: The Interaction between Serum IgG and DC-SIGN is Independent of Antibody Glycoform or Fc Domain. <i>Journal of Molecular Biology</i> , 2013, 425, 1253-1258.	4.2	116
13	Metformin decreases angiogenesis via NF- κ B and Erk1/2/Erk5 pathways by increasing the antiangiogenic thrombospondin-1. <i>Cardiovascular Research</i> , 2009, 83, 566-574.	3.8	103
14	C1q, the recognition subcomponent of the classical pathway of complement, drives microglial activation. <i>Journal of Neuroscience Research</i> , 2009, 87, 644-652.	2.9	97
15	Selection of a synthetic glycan oligomer from a library of DNA-templated fragments against DC-SIGN and inhibition of HIV gp120 binding to dendritic cells. <i>Chemical Communications</i> , 2011, 47, 9321.	4.1	91
16	Structural basis of the C1q/C1s interaction and its central role in assembly of the C1 complex of complement activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13916-13920.	7.1	86
17	Glycerol-Free Cryopreservation of Red Blood Cells Enabled by Ice-Recrystallization-Inhibiting Polymers. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 789-794.	5.2	74
18	High glucose disrupts oligosaccharide recognition function via competitive inhibition: A potential mechanism for immune dysregulation in diabetes mellitus. <i>Immunobiology</i> , 2011, 216, 126-131.	1.9	67

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19	Autoimmunity and glomerulonephritis in mice with targeted deletion of the serum amyloid P component gene: SAP deficiency or strain combination?. <i>Immunology</i> , 2004, 112, 255-264.	4.4	63
20	Fast Nanoscale Surface Charge Mapping with Pulsed-Potential Scanning Ion Conductance Microscopy. <i>Analytical Chemistry</i> , 2016, 88, 10854-10859.	6.5	62
21	Ice recrystallisation inhibition by polyols: comparison of molecular and macromolecular inhibitors and role of hydrophobic units. <i>Biomaterials Science</i> , 2013, 1, 478.	5.4	56
22	Structural Basis of Mannan-Binding Lectin Recognition by Its Associated Serine Protease MASP-1: Implications for Complement Activation. <i>Structure</i> , 2011, 19, 1635-1643.	3.3	55
23	Subclass analysis of donor HLA-specific IgG in antibody-incompatible renal transplantation reveals a significant association of IgG ₄ with rejection and graft failure. <i>Transplant International</i> , 2015, 28, 1405-1415.	1.6	53
24	Molecular Interactions between MASP-2, C4, and C2 and Their Activation Fragments Leading to Complement Activation via the Lectin Pathway. <i>Journal of Biological Chemistry</i> , 2007, 282, 7844-7851.	3.4	51
25	Structural Characterization of the DC-SIGN-Lewis ^X Complex. <i>Biochemistry</i> , 2014, 53, 5700-5709.	2.5	51
26	Surfactant Protein A Binds to HIV and Inhibits Direct Infection of CD4+ Cells, but Enhances Dendritic Cell-Mediated Viral Transfer. <i>Journal of Immunology</i> , 2008, 181, 601-609.	0.8	50
27	Molecular basis of sugar recognition by collectin-K1 and the effects of mutations associated with 3MC syndrome. <i>BMC Biology</i> , 2015, 13, 27.	3.8	49
28	Structure of the C1r-C1s interaction of the C1 complex of complement activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 768-773.	7.1	49
29	C1q binding and complement activation by prions and amyloids. <i>Immunobiology</i> , 2007, 212, 355-362.	1.9	48
30	Identification of four novel DC-SIGN ligands on <i>Mycobacterium bovis</i> BCG. <i>Protein and Cell</i> , 2010, 1, 859-870.	11.0	48
31	Enhanced non-vitreous cryopreservation of immortalized and primary cells by ice-growth inhibiting polymers. <i>Biomaterials Science</i> , 2016, 4, 1079-1084.	5.4	41
32	Interspecies Somatic Cell Nuclear Transfer Is Dependent on Compatible Mitochondrial DNA and Reprogramming Factors. <i>PLoS ONE</i> , 2011, 6, e14805.	2.5	40
33	Recognition of acetylated oligosaccharides by human L-ficolin. <i>Immunology Letters</i> , 2008, 118, 152-156.	2.5	39
34	Surfactant Protein D Modulates HIV Infection of Both T-Cells and Dendritic Cells. <i>PLoS ONE</i> , 2013, 8, e59047.	2.5	39
35	The Catalytically Active Serine Protease Domain of Human Complement Factor I. <i>Biochemistry</i> , 2005, 44, 6239-6249.	2.5	34
36	Prion protein activates and fixes complement directly via the classical pathway: Implications for the mechanism of scrapie agent propagation in lymphoid tissue. <i>Molecular Immunology</i> , 2007, 44, 2997-3004.	2.2	34

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37	Developing the IVIG biomimetic, Hexa-Fc, for drug and vaccine applications. <i>Scientific Reports</i> , 2015, 5, 9526.	3.3	33
38	Scrapie Pathogenesis: The Role of Complement C1q in Scrapie Agent Uptake by Conventional Dendritic Cells. <i>Journal of Immunology</i> , 2009, 182, 1305-1313.	0.8	32
39	Specific and Differential Binding of <i>N</i> -Acetylgalactosamine Glycopolymers to the Human Macrophage Galactose Lectin and Asialoglycoprotein Receptor. <i>Biomacromolecules</i> , 2017, 18, 1624-1633.	5.4	32
40	Application of Flow Cytometry to Monitor Antibody Levels in ABO Incompatible Kidney Transplantation. <i>Transplantation</i> , 2008, 86, 474-477.	1.0	31
41	A chemical genomics approach to drug reprofiling in oncology: Antipsychotic drug risperidone as a potential adenocarcinoma treatment. <i>Cancer Letters</i> , 2017, 393, 16-21.	7.2	31
42	Manipulation of cytokine secretion in human dendritic cells using glycopolymers with picomolar affinity for DC-SIGN. <i>Chemical Science</i> , 2017, 8, 6974-6980.	7.4	31
43	Synthesis of 2-C-branched derivatives of d-mannose: 2-C-aminomethyl-d-mannose binds to the human C-type lectin DC-SIGN with affinity greater than an order of magnitude compared to that of d-mannose. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 1502-1510.	1.8	27
44	Protein-Protein Interaction between Surfactant Protein D and DC-SIGN via C-Type Lectin Domain Can Suppress HIV-1 Transfer. <i>Frontiers in Immunology</i> , 2017, 8, 834.	4.8	23
45	Structural identifiability of surface binding reactions involving heterogeneous analyte: Application to surface plasmon resonance experiments. <i>Automatica</i> , 2013, 49, 48-57.	5.0	22
46	Modulation of HIV and SIV neutralization sensitivity by DC-SIGN and mannose-binding lectin. <i>Virology</i> , 2007, 368, 322-330.	2.4	21
47	Glyconanoparticles with controlled morphologies and their interactions with a dendritic cell lectin. <i>Polymer Chemistry</i> , 2016, 7, 6293-6296.	3.9	21
48	Soluble CD30 and Cd27 levels in patients undergoing HLA antibody-incompatible renal transplantation. <i>Transplant Immunology</i> , 2010, 23, 161-165.	1.2	19
49	Synthetic Glycopolypeptides as Potential Inhibitory Agents for Dendritic Cells and HIV-1 Trafficking. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1542-1546.	3.9	18
50	Carbohydrate recognition and complement activation by rat ficolin-B. <i>European Journal of Immunology</i> , 2011, 41, 214-223.	2.9	17
51	Antibody-incompatible kidney transplantation in 2015 and beyond. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 1972-1978.	0.7	17
52	Human Leukocyte Antigen-Specific Antibodies and Gamma-Interferon Stimulate Human Microvascular and Glomerular Endothelial Cells to Produce Complement Factor C4. <i>Transplantation</i> , 2012, 93, 867-873.	1.0	16
53	Solution NMR Analyses of the C-type Carbohydrate Recognition Domain of DC-SIGNR Protein Reveal Different Binding Modes for HIV-derived Oligosaccharides and Smaller Glycan Fragments. <i>Journal of Biological Chemistry</i> , 2013, 288, 22745-22757.	3.4	16
54	Generation and characterization of ¹²⁵ I-2-gluco-oligosaccharide probes from <i>Brucella abortus</i> cyclic ¹²⁵ I-glucan and their recognition by C-type lectins of the immune system. <i>Glycobiology</i> , 2016, 26, 1086-1096.	2.5	16

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55	Direct quantitative measurement of the kinetics of HLA-specific antibody interactions with isolated HLA proteins. <i>Human Immunology</i> , 2018, 79, 122-128.	2.4	16
56	Carbohydrates from <i>Pseudomonas aeruginosa</i> biofilms interact with immune C-type lectins and interfere with their receptor function. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 87.	6.4	16
57	Identification of the minimal binding region of a <i>Plasmodium falciparum</i> IgM binding PfEMP1 domain. <i>Molecular and Biochemical Parasitology</i> , 2015, 201, 76-82.	1.1	14
58	Complement Protein C1q Interacts with DC-SIGN via Its Globular Domain and Thus May Interfere with HIV-1 Transmission. <i>Frontiers in Immunology</i> , 2016, 7, 600.	4.8	10
59	Insulin biosensor development: a case study. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2017, 32, 119-138.	1.0	10
60	A new data-driven model for post-transplant antibody dynamics in high risk kidney transplantation. <i>Mathematical Biosciences</i> , 2017, 284, 3-11.	1.9	9
61	¹ H-NMR evidence for oligosaccharide release from the dendritic cell specific intercellular adhesion molecule-3 grabbing non-integrin-related (¹H-NMR) carbohydrate recognition domain at low pH. <i>FEBS Journal</i> , 2014, 281, 3739-3750.	4.7	8
62	C-type lectin receptors MR and DC-SIGN are involved in recognition of hemocyanins, shaping their immunostimulatory effects on human dendritic cells. <i>European Journal of Immunology</i> , 2021, 51, 1715-1731.	2.9	6
63	Enzyme-independent, orientation-selective conjugation of whole human complement C3 to protein surfaces. <i>Journal of Immunological Methods</i> , 2008, 337, 49-54.	1.4	5
64	Engineering Novel Complement Activity into a Pulmonary Surfactant Protein. <i>Journal of Biological Chemistry</i> , 2010, 285, 10546-10552.	3.4	5
65	C3-positive donor-specific antibodies have a role in pretransplant risk stratification of crossmatch-positive HLA-incompatible renal transplantation: United Kingdom multicentre study. <i>Transplant International</i> , 2020, 33, 1128-1139.	1.6	5
66	Sequence-Controlled Multi-Block Glycopolymers via Cu(0) Mediated Living Radical Polymerization. <i>ACS Symposium Series</i> , 2014, , 327-348.	0.5	4
67	Residues required for phosphorylation of translation initiation factor eIF2 β under diverse stress conditions are divergent between yeast and human. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 59, 135-141.	2.8	4
68	Simvastatin Sodium Salt and Fluvastatin Interact with Human Gap Junction Gamma-3 Protein. <i>PLoS ONE</i> , 2016, 11, e0148266.	2.5	3
69	Mannose-Binding Lectin; the Sugary-Sticky Side of Transplantation. <i>Transplantation</i> , 2009, 88, 149-150.	1.0	2
70	Correlation of C3d donor specific antibodies and IgG MFI with positive complement dependent cytotoxicity and flow cytometry crossmatch in a cohort of HLA incompatible renal transplants: single centre experience. <i>Transplant Immunology</i> , 2018, 51, 30-31.	1.2	2
71	Using the Man ₉ (GlcNAc) ₂ as a DC-SIGN pairing to probe specificity in photochemical immobilization. <i>Molecular BioSystems</i> , 2011, 7, 116-118.	2.9	1
72	Reply to Mortensen et al.: The zymogen form of complement component C1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3867-E3868.	7.1	1

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73	Immunoglobulin isotype compositions of ABO specific antibodies are dependent on the individual patient blood group and blood group specificity: Results from a healthy donor cohort. Journal of Immunological Methods, 2021, 494, 113053.	1.4	1