

Nicolai V Bovin

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326
papers

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53
h-index

88
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343
ext. papers

11,436
ext. citations

4
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5.79
L-index

#	Paper	IF	Citations
326	Printed covalent glycan array for ligand profiling of diverse glycan binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17033-8	11.5	949
325	Glycan array screening reveals a candidate ligand for Siglec-8. <i>Journal of Biological Chemistry</i> , 2005 , 280, 4307-12	5.4	216
324	Specification of receptor-binding phenotypes of influenza virus isolates from different hosts using synthetic sialylglycopolymers: non-egg-adapted human H1 and H3 influenza A and influenza B viruses share a common high binding affinity for 6'-sialyl(N-acetyl)lactosamine. <i>Virology</i> , 1997 , 232, 345-50	3.6	214
323	Ganglioside GD3 expression on target cells can modulate NK cell cytotoxicity via siglec-7-dependent and -independent mechanisms. <i>European Journal of Immunology</i> , 2003 , 33, 1642-8	6.1	185
322	Endogenous lectins as targets for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2000 , 43, 225-44	18.5	178
321	Adaptation of pandemic H1N1 influenza viruses in mice. <i>Journal of Virology</i> , 2010 , 84, 8607-16	6.6	171
320	A guide into glycosciences: How chemistry, biochemistry and biology cooperate to crack the sugar code. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 186-235	4	169
319	Synthesis of polymeric neoglycoconjugates based on N-substituted polyacrylamides. <i>Glycoconjugate Journal</i> , 1993 , 10, 142-51	3	160
318	Evolution of the receptor binding phenotype of influenza A (H5) viruses. <i>Virology</i> , 2006 , 344, 432-8	3.6	156
317	Polyacrylamide-based glycoconjugates as tools in glycobiology. <i>Glycoconjugate Journal</i> , 1998 , 15, 431-463		149
316	Combination chemotherapy, a potential strategy for reducing the emergence of drug-resistant influenza A variants. <i>Antiviral Research</i> , 2006 , 70, 121-31	10.8	148
315	Anti-carbohydrate antibodies of normal sera: findings, surprises and challenges. <i>Molecular Immunology</i> , 2009 , 46, 3037-49	4.3	143
314	Masking of CD22 by cis ligands does not prevent redistribution of CD22 to sites of cell contact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6104-9	11.5	134
313	Flow-enhanced adhesion regulated by a selectin interdomain hinge. <i>Journal of Cell Biology</i> , 2006 , 174, 1107-17	7.3	123
312	Decoration of T-independent antigen with ligands for CD22 and Siglec-G can suppress immunity and induce B cell tolerance in vivo. <i>Journal of Experimental Medicine</i> , 2010 , 207, 173-87	16.6	120
311	Membrane-associated heparan sulfate proteoglycans are involved in the recognition of cellular targets by NKp30 and NKp46. <i>Journal of Immunology</i> , 2004 , 173, 2392-401	5.3	120
310	Probing of the receptor-binding sites of the H1 and H3 influenza A and influenza B virus hemagglutinins by synthetic and natural sialosides. <i>Virology</i> , 1993 , 196, 111-21	3.6	120

309	High-affinity ligand probes of CD22 overcome the threshold set by cis ligands to allow for binding, endocytosis, and killing of B cells. <i>Journal of Immunology</i> , 2006 , 177, 2994-3003	5.3	118
308	Unique conformer selection of human growth-regulatory lectin galectin-1 for ganglioside GM1 versus bacterial toxins. <i>Biochemistry</i> , 2003 , 42, 14762-73	3.2	116
307	Receptor specificity of influenza viruses from birds and mammals: new data on involvement of the inner fragments of the carbohydrate chain. <i>Virology</i> , 2005 , 334, 276-83	3.6	115
306	Structural basis for the interaction between human milk oligosaccharides and the bacterial lectin PA-IIL of <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2005 , 389, 325-32	3.8	111
305	Synthetic polymeric sialoside inhibitors of influenza virus receptor-binding activity. <i>FEBS Letters</i> , 1990 , 272, 209-12	3.8	108
304	Distinct endocytic mechanisms of CD22 (Siglec-2) and Siglec-F reflect roles in cell signaling and innate immunity. <i>Molecular and Cellular Biology</i> , 2007 , 27, 5699-710	4.8	104
303	Influence of the combined ABO, FUT2, and FUT3 polymorphism on susceptibility to Norwalk virus attachment. <i>Journal of Infectious Diseases</i> , 2005 , 192, 1071-7	7	94
302	Identification of mycobacterial alpha-glucan as a novel ligand for DC-SIGN: involvement of mycobacterial capsular polysaccharides in host immune modulation. <i>Journal of Immunology</i> , 2009 , 183, 5221-31	5.3	92
301	Receptor-binding properties of modern human influenza viruses primarily isolated in Vero and MDCK cells and chicken embryonated eggs. <i>Virology</i> , 2003 , 313, 473-80	3.6	91
300	Postreassortment changes in influenza A virus hemagglutinin restoring HA-NA functional match. <i>Virology</i> , 1998 , 244, 315-21	3.6	90
299	Effects of host-dependent glycosylation of hemagglutinin on receptor-binding properties on H1N1 human influenza A virus grown in MDCK cells and in embryonated eggs. <i>Virology</i> , 1998 , 247, 170-7	3.6	90
298	Hemocompatibility of liposomes loaded with lipophilic prodrugs of methotrexate and melphalan in the lipid bilayer. <i>Journal of Controlled Release</i> , 2012 , 160, 394-400	11.7	89
297	6-sulfo sialyl Lewis X is the common receptor determinant recognized by H5, H6, H7 and H9 influenza viruses of terrestrial poultry. <i>Virology Journal</i> , 2008 , 5, 85	6.1	87
296	Experimental Evolution of Human Influenza Virus H3 Hemagglutinin in the Mouse Lung Identifies Adaptive Regions in HA1 and HA2. <i>Journal of Virology</i> , 2009 , 83, 3417-3417	6.6	78
295	Carbohydrate composition and immunomodulatory activity of different glycoforms of alpha1-acid glycoprotein. <i>Glycoconjugate Journal</i> , 1997 , 14, 631-8	3	77
294	Receptor-binding properties of swine influenza viruses isolated and propagated in MDCK cells. <i>Virus Research</i> , 2005 , 114, 15-22	6.4	76
293	Receptor-binding profiles of H7 subtype influenza viruses in different host species. <i>Journal of Virology</i> , 2012 , 86, 4370-9	6.6	74
292	H5N1 chicken influenza viruses display a high binding affinity for Neu5Acalpha2-3Galbeta1-4(6-HSO3)GlcNAc-containing receptors. <i>Virology</i> , 2004 , 326, 310-6	3.6	74

291	Addition of halogenoazides to glycals. <i>Carbohydrate Research</i> , 1981 , 98, 25-35	2.9	73
290	Correlation of expression of binding sites for synthetic blood group A-, B- and H-trisaccharides and for sarcolectin with survival of patients with bronchial carcinoma. <i>European Journal of Cancer</i> , 1994 , 30A, 653-7	7.5	68
289	Experimental evolution of human influenza virus H3 hemagglutinin in the mouse lung identifies adaptive regions in HA1 and HA2. <i>Journal of Virology</i> , 2008 , 82, 11599-608	6.6	67
288	Serum antiglycan antibody detection of nonmucinous ovarian cancers by using a printed glycan array. <i>International Journal of Cancer</i> , 2012 , 130, 138-46	7.5	66
287	The alphaGal epitope of the histo-blood group antigen family is a ligand for bovine norovirus Newbury2 expected to prevent cross-species transmission. <i>PLoS Pathogens</i> , 2009 , 5, e1000504	7.6	66
286	Eosinophil-selective binding and proapoptotic effect in vitro of a synthetic Siglec-8 ligand, polymeric 6'-sulfated sialyl Lewis x. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 330, 608-12	4.7	63
285	Investigation of potential carbohydrate antigen targets for human and baboon antibodies. <i>Xenotransplantation</i> , 2010 , 17, 197-206	2.8	62
284	Up-regulation of galectin-3 and its ligands by Trypanosoma cruzi infection with modulation of adhesion and migration of murine dendritic cells. <i>Glycobiology</i> , 2004 , 14, 647-57	5.8	61
283	Detection, immunoabsorption, and inhibition of cytotoxic activity of anti-Gal antibodies using newly developed substances with synthetic Gal β Gal disaccharide epitopes. <i>Xenotransplantation</i> , 1995 , 2, 98-106	2.8	61
282	Hydrogel glycan microarrays. <i>Analytical Biochemistry</i> , 2005 , 347, 94-105	3.1	59
281	Antitumour activity of cytotoxic liposomes equipped with selectin ligand SiaLe(X), in a mouse mammary adenocarcinoma model. <i>European Journal of Cancer</i> , 2000 , 36, 942-9	7.5	58
280	An E-selectin binding assay based on a polyacrylamide-type glycoconjugate. <i>Analytical Biochemistry</i> , 1996 , 238, 184-90	3.1	58
279	Repertoire of human natural anti-glycan immunoglobulins. Do we have auto-antibodies?. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012 , 1820, 1373-82	4	57
278	Lectin ligands: new insights into their conformations and their dynamic behavior and the discovery of conformer selection by lectins. <i>Cells Tissues Organs</i> , 1998 , 161, 91-109	2.1	56
277	Distribution and function of macrophage galactose-type C-type lectin 2 (MGL2/CD301b): efficient uptake and presentation of glycosylated antigens by dendritic cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 19193-204	5.4	55
276	Design of carbohydrate multiarrays. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006 , 1760, 603-9	4	55
275	Activity, splice variants, conserved peptide motifs, and phylogeny of two new alpha1,3-fucosyltransferase families (FUT10 and FUT11). <i>Journal of Biological Chemistry</i> , 2009 , 284, 4723-38	5.4	54
274	Amino acid 226 in the hemagglutinin of H4N6 influenza virus determines binding affinity for alpha2,6-linked sialic acid and infectivity levels in primary swine and human respiratory epithelial cells. <i>Journal of Virology</i> , 2008 , 82, 8204-9	6.6	53

273	Polymeric inhibitor of influenza virus attachment protects mice from experimental influenza infection. <i>Antiviral Research</i> , 2002 , 55, 201-5	10.8	50
272	Polymer-bound 6' sialyl-N-acetyllactosamine protects mice infected by influenza virus. <i>Antiviral Research</i> , 2005 , 68, 116-23	10.8	49
271	Structural basis for substrate specificity of mammalian neuraminidases. <i>PLoS ONE</i> , 2014 , 9, e106320	3.7	49
270	Dextran sulfate acts as an endothelial cell protectant and inhibits human complement and natural killer cell-mediated cytotoxicity against porcine cells. <i>Transplantation</i> , 2003 , 76, 838-43	1.8	48
269	Constitutively unmasked CD22 on B cells of ST6Gal I knockout mice: novel sialoside probe for murine CD22. <i>Glycobiology</i> , 2002 , 12, 563-71	5.8	48
268	Evidence of human non-alpha-galactosyl antibodies involved in the hyperacute rejection of pig lungs and their removal by pig organ perfusion. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1998 , 116, 831-43	1.5	47
267	Distinct host range of influenza H3N2 virus isolates in Vero and MDCK cells is determined by cell specific glycosylation pattern. <i>Virology</i> , 2003 , 307, 90-7	3.6	47
266	NMR-based, molecular dynamics- and random walk molecular mechanics-supported study of conformational aspects of a carbohydrate ligand (Gal beta 1-2Gal beta 1-R) for an animal galectin in the free and in the bound state. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 219, 205-12	3.4	47
265	Glycan specificity of myelin-associated glycoprotein and sialoadhesin deduced from interactions with synthetic oligosaccharides. <i>FEBS Journal</i> , 1998 , 258, 677-85		46
264	Long-term evolution of the CAZY glycosyltransferase 6 (ABO) gene family from fishes to mammals--a birth-and-death evolution model. <i>Glycobiology</i> , 2007 , 17, 516-28	5.8	46
263	Porcine sperm bind to specific 6-sialylated biantennary glycans to form the oviduct reservoir. <i>Biology of Reproduction</i> , 2012 , 87, 147	3.9	45
262	Replacing a lectin domain residue in L-selectin enhances binding to P-selectin glycoprotein ligand-1 but not to 6-sulfo-sialyl Lewis x. <i>Journal of Biological Chemistry</i> , 2008 , 283, 11493-500	5.4	45
261	Human plasma trans-sialidase causes atherogenic modification of low density lipoprotein. <i>Atherosclerosis</i> , 2001 , 159, 103-15	3.1	45
260	Successful management of an ABO-mismatched lung allograft using antigen-specific immunoadsorption, complement inhibition, and immunomodulatory therapy. <i>Transplantation</i> , 2002 , 74, 79-84	1.8	44
259	A new combined computational and NMR-spectroscopical strategy for the identification of additional conformational constraints of the bound ligand in an aprotic solvent. <i>ChemBioChem</i> , 2000 , 1, 181-95	3.8	44
258	Selection of receptor-binding variants of human influenza A and B viruses in baby hamster kidney cells. <i>Virology</i> , 1999 , 262, 31-8	3.6	44
257	Synthetic glycolipid modification of red blood cell membranes. <i>Transfusion</i> , 2007 , 47, 876-82	2.9	43
256	Polyglycine II nanosheets: supramolecular antivirals?. <i>ChemBioChem</i> , 2003 , 4, 147-54	3.8	43

255	Synthetic polymeric inhibitors of influenza virus receptor-binding activity suppress virus replication. <i>Antiviral Research</i> , 1994 , 23, 179-90	10.8	43
254	A simple procedure for the synthesis of the methyl and benzyl glycosides of Neu5Ac and 4-epi-Neu5Ac. Conversion of the benzyl and methyl glycosides of Neu5Ac into N-trifluoroacetylneuraminic acid benzyl glycosides. <i>Carbohydrate Research</i> , 1992 , 237, 161-175	2.9	43
253	Natural antibodies to glycans. <i>Biochemistry (Moscow)</i> , 2013 , 78, 786-97	2.9	42
252	Comparative study of the glycan specificities of cell-bound human tandem-repeat-type galectin-4, -8 and -9. <i>Glycobiology</i> , 2012 , 22, 1207-17	5.8	42
251	NKp46 O-glycan sequences that are involved in the interaction with hemagglutinin type 1 of influenza virus. <i>Journal of Virology</i> , 2010 , 84, 3789-97	6.6	40
250	Human-like receptor specificity does not affect the neuraminidase-inhibitor susceptibility of H5N1 influenza viruses. <i>PLoS Pathogens</i> , 2008 , 4, e1000043	7.6	40
249	Synthesis of Sialic Acid Pseudopolysaccharides by Coupling of Spacer-Connected Neu5Ac With Activated Polymer. <i>Journal of Carbohydrate Chemistry</i> , 1991 , 10, 691-700	1.7	40
248	Escape mutants of pandemic influenza A/H1N1 2009 virus: variations in antigenic specificity and receptor affinity of the hemagglutinin. <i>Virus Research</i> , 2012 , 166, 61-7	6.4	39
247	Age is an important determinant in humoral and T cell responses to immunization with hepatitis B surface antigen. <i>Human Vaccines and Immunotherapeutics</i> , 2013 , 9, 1466-76	4.4	37
246	Multimeric glycotherapeutics: new paradigm. <i>Glycoconjugate Journal</i> , 2004 , 21, 471-8	3	36
245	Ganglioside binding pattern of CD33-related siglecs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 675-8	2.9	36
244	Human influenza virus recognition of sialyloligosaccharides. <i>FEBS Letters</i> , 1995 , 366, 57-60	3.8	36
243	Comparison of printed glycan array, suspension array and ELISA in the detection of human anti-glycan antibodies. <i>Glycoconjugate Journal</i> , 2011 , 28, 507-17	3	35
242	Decreased neuraminidase activity is important for the adaptation of H5N1 influenza virus to human airway epithelium. <i>Journal of Virology</i> , 2012 , 86, 4724-33	6.6	35
241	Conversion of Complex Sialooligosaccharides into Polymeric Conjugates and their Anti-Influenza Virus Inhibitory Potency. <i>Journal of Carbohydrate Chemistry</i> , 2000 , 19, 1191-1200	1.7	35
240	Analysis of Tn antigenicity with a panel of new IgM and IgG1 monoclonal antibodies raised against leukemic cells. <i>Glycobiology</i> , 2012 , 22, 529-42	5.8	34
239	Carbamate-linked lactose: design of clusters and evidence for selectivity to block binding of human lectins to (neo)glycoproteins with increasing degree of branching and to tumor cells. <i>Bioconjugate Chemistry</i> , 2009 , 20, 1716-28	6.3	34
238	Galectin-loaded cells as a platform for the profiling of lectin specificity by fluorescent neoglycoconjugates: a case study on galectins-1 and -3 and the impact of assay setting. <i>Glycobiology</i> , 2008 , 18, 315-24	5.8	34

237	Locally targeted cytoprotection with dextran sulfate attenuates experimental porcine myocardial ischaemia/reperfusion injury. <i>European Heart Journal</i> , 2005 , 26, 2334-43	9.5	33
236	Selection of carbohydrate-binding cell phenotypes using oligosaccharide-coated magnetic particles. <i>Glycobiology</i> , 1997 , 7, 179-82	5.8	32
235	Conformer selection and differential restriction of ligand mobility by a plant lectin--conformational behaviour of Galbeta1-3GlcNAcbeta1-R, Galbeta1-3GalNAcbeta1-R and Galbeta1-2Galbeta1-R' in the free state and complexed with galactoside-specific mistletoe lectin as revealed by random-walk and conformational clustering molecular mechanics. <i>FEBS Journal</i> , 1998 , 252, 416-27		32
234	Carcinoid tumors of the lung: immuno- and ligandohistochemistry, analysis of integrated optical density, syntactic structure analysis, clinical data, and prognosis of patients treated surgically. <i>Journal of Surgical Oncology</i> , 1996 , 63, 99-106	2.8	32
233	Histo-blood group antigen-binding specificities of human rotaviruses are associated with gastroenteritis but not with in vitro infection. <i>Scientific Reports</i> , 2018 , 8, 12961	4.9	32
232	Normal human serum contains high levels of anti-Gal alpha 1-4GlcNAc antibodies. <i>Xenotransplantation</i> , 2007 , 14, 627-35	2.8	30
231	Microcalorimetric indications for ligand binding as a function of the protein for galactoside-specific plant and avian lectins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999 , 1472, 191-6	4	30
230	Simple stereoselective synthesis of 2-6 sialooligosaccharides. <i>Tetrahedron Letters</i> , 2002 , 43, 8011-8013	2	29
229	Cyclometalated ruthenium(II) complexes as efficient redox mediators in peroxidase catalysis. <i>Journal of Biological Inorganic Chemistry</i> , 2003 , 8, 683-8	3.7	29
228	Selectin Receptors 4: Synthesis of Tetrasaccharides Sialyl Lewis A and Sialyl Lewis X Containing A Spacer Group 1,2. <i>Journal of Carbohydrate Chemistry</i> , 1996 , 15, 939-953	1.7	29
227	Carbohydrate-based probes for detection of cellular lectins. <i>Analytical Biochemistry</i> , 1998 , 265, 282-9	3.1	28
226	Endothelial cell protection by dextran sulfate: a novel strategy to prevent acute vascular rejection in xenotransplantation. <i>American Journal of Transplantation</i> , 2004 , 4, 181-7	8.7	28
225	In vitro evaluation of the efficacy and biocompatibility of new, synthetic ABO immunoabsorbents. <i>Transplantation</i> , 1995 , 60, 425-30	1.8	28
224	Human tandem-repeat-type galectins bind bacterial non-Tal polysaccharides. <i>Glycoconjugate Journal</i> , 2014 , 31, 7-12	3	27
223	Adjustment of receptor-binding and neuraminidase substrate specificities in avian-human reassortant influenza viruses. <i>Glycoconjugate Journal</i> , 2009 , 26, 99-109	3	27
222	Scintillation proximity assay for E-, P-, and L-selectin utilizing polyacrylamide-based neoglycoconjugates as ligands. <i>Analytical Biochemistry</i> , 1998 , 258, 127-35	3.1	27
221	Use of a library of mutated Maackia amurensis hemagglutinin for profiling the cell lineage and differentiation. <i>Proteomics</i> , 2008 , 8, 3274-83	4.8	27
220	The reducing end of Gal oligosaccharides contributes to their efficiency in blocking natural antibodies of human and baboon sera. <i>Transplant International</i> , 1996 , 9, 98-101	3	27

219	Natural anti-A and anti-B of the ABO system: allo- and autoantibodies have different epitope specificity. <i>Transfusion</i> , 2012 , 52, 860-9	2.9	26
218	Network inference from glycoproteomics data reveals new reactions in the IgG glycosylation pathway. <i>Nature Communications</i> , 2017 , 8, 1483	17.4	26
217	Non-synonymous single nucleotide polymorphisms in genes for immunoregulatory galectins: association of galectin-8 (F19Y) occurrence with autoimmune diseases in a Caucasian population. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012 , 1820, 1512-8	4	26
216	Molecular adaptation of an H7N3 wild duck influenza virus following experimental multiple passages in quail and turkey. <i>Virology</i> , 2010 , 408, 167-73	3.6	26
215	Chicken GRIFIN: A homodimeric member of the galectin network with canonical properties and a unique expression profile. <i>Biochimie</i> , 2016 , 128-129, 34-47	4.6	25
214	The amino acids involved in the distinct carbohydrate specificities between macrophage galactose-type C-type lectins 1 and 2 (CD301a and b) of mice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008 , 1780, 89-100	4	25
213	Monoclonal antibody LU-BCRU-G7 against a breast tumour-associated glycoprotein recognizes the disaccharide Gal beta 1-3GlcNAc. <i>Glycobiology</i> , 1995 , 5, 385-9	5.8	25
212	Release of Porcine Sperm from Oviduct Cells is Stimulated by Progesterone and Requires CatSper. <i>Scientific Reports</i> , 2019 , 9, 19546	4.9	25
211	Toward creating cell membrane glyco-landscapes with glycan lipid constructs. <i>Carbohydrate Research</i> , 2012 , 356, 238-46	2.9	24
210	Multiplex suspension array for human anti-carbohydrate antibody profiling. <i>Analyst, The</i> , 2011 , 136, 560-9	3	24
209	Novel antibody screening cells, MUT+Mur kodeocytes, created by attaching peptides onto red blood cells. <i>Transfusion</i> , 2010 , 50, 635-41	2.9	24
208	Synthesis of complex α -3 sialooligosaccharides, including sulfated and fucosylated ones, using Neu5Ac α -3Gal as a building block. <i>Mendeleev Communications</i> , 2003 , 13, 245-248	1.9	24
207	High molecular weight neoglycoconjugates for solid phase assays. <i>Glycoconjugate Journal</i> , 2005 , 22, 43-51	5.1	24
206	Carbohydrate Recognition Specificity of Trans-sialidase Lectin Domain from Trypanosoma congolense. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0004120	4.8	24
205	Targeting liposomes loaded with melphalan prodrug to tumour vasculature via the Sialyl Lewis X selectin ligand. <i>Journal of Drug Targeting</i> , 2014 , 22, 242-250	5.4	23
204	Fluorescein and radiolabeled Function-Spacer-Lipid constructs allow for simple in vitro and in vivo bioimaging of enveloped virions. <i>Journal of Virological Methods</i> , 2011 , 176, 78-84	2.6	23
203	Endothelial cell protection and complement inhibition in xenotransplantation: a novel in vitro model using whole blood. <i>Xenotransplantation</i> , 2005 , 12, 434-43	2.8	23
202	Synthesis of histo blood-group antigens A and B (type 2), xenoantigen Gal β -3Gal α -4GlcNAc and related type 2 backbone oligosaccharides as haptens in spacers form. <i>Mendeleev Communications</i> , 2002 , 12, 143-145	1.9	23

201	New feature of angiotensin-converting enzyme: carbohydrate-recognizing domain. <i>Journal of Molecular Recognition</i> , 2000 , 13, 360-9	2.6	23
200	Hypotheses of the origin of natural antibodies: a glyco biologist's opinion. <i>Biochemistry (Moscow)</i> , 2015 , 80, 820-35	2.9	22
199	LewisX-containing glycans on the porcine oviductal epithelium contribute to formation of the sperm reservoir. <i>Biology of Reproduction</i> , 2014 , 91, 140	3.9	22
198	Both IgG and IgM anti-pig antibodies induce complement activation and cytotoxicity. <i>Xenotransplantation</i> , 2001 , 8, 3-14	2.8	22
197	An enzyme-linked lectin assay for alpha1,3-galactosyltransferase. <i>Analytical Biochemistry</i> , 2000 , 280, 250-7	3.1	22
196	Coexpression of binding sites for A(B) histo-blood group trisaccharides with galectin-3 and Lag antigen in human Langerhans cells. <i>Journal of Leukocyte Biology</i> , 1999 , 66, 644-9	6.5	22
195	Galectin-related protein: An integral member of the network of chicken galectins 1. From strong sequence conservation of the gene confined to vertebrates to biochemical characteristics of the chicken protein and its crystal structure. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 2285-97	4	21
194	PEGylation of microbead surfaces reduces unspecific antibody binding in glycan-based suspension array. <i>Journal of Immunological Methods</i> , 2014 , 412, 42-52	2.5	20
193	Primary colorectal carcinomas and their intrapulmonary metastases: clinical, glyco-, immuno- and lectin histochemical, nuclear and syntactic structure analysis with emphasis on correlation with period of occurrence of metastases and survival. <i>Apmis</i> , 2002 , 110, 435-46	3.4	20
192	Binding sites for Lewis antigens are expressed by human colon cancer cells and negatively affect their migration. <i>Laboratory Investigation</i> , 2003 , 83, 777-87	5.9	20
191	Summary report on the ISOBM TD-6 workshop: analysis of 20 monoclonal antibodies against Sialyl Lewis _x and related antigens. Montreux, Switzerland, September 19-24, 1997. <i>Tumor Biology</i> , 1998 , 19, 390-420	2.9	20
190	Mapping the fine specificity of ABO monoclonal reagents with A and B type-specific function-spacer-lipid constructs in kodecytes and inkjet printed on paper. <i>Transfusion</i> , 2014 , 54, 2477-84 ^{2.9}	2.9	19
189	FSL constructs: a simple method for modifying cell/virion surfaces with a range of biological markers without affecting their viability. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	19
188	Processing and analysis of serum antibody binding signals from Printed Glycan Arrays for diagnostic and prognostic applications. <i>International Journal of Bioinformatics Research and Applications</i> , 2011 , 7, 402-26	0.9	19
187	A polymorphism in the hemagglutinin of the human isolate of a highly pathogenic H5N1 influenza virus determines organ tropism in mice. <i>Journal of Virology</i> , 2010 , 84, 8316-21	6.6	19
186	Block synthesis of blood group tetrasaccharides B (types 1, 3 and 4). <i>Mendeleev Communications</i> , 2009 , 19, 152-154	1.9	19
185	Multiplex determination of serological signatures in the sera of colorectal cancer patients using hydrogel biochips. <i>Cancer Medicine</i> , 2016 , 5, 1361-72	4.8	19
184	Structural studies of the interaction of Crataeva tapia bark protein with heparin and other glycosaminoglycans. <i>Biochemistry</i> , 2013 , 52, 2148-56	3.2	18

183	A diverse range of bacterial and eukaryotic chitinases hydrolyzes the LacNAc (Gal β -4GlcNAc) and LacdiNAc (GalNAc β -4GlcNAc) motifs found on vertebrate and insect cells. <i>Journal of Biological Chemistry</i> , 2015 , 290, 5354-66	5.4	18
182	Does pandemic A/H1N1 virus have the potential to become more pathogenic?. <i>MBio</i> , 2010 , 1,	7.8	18
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