

Gillian M Air

List of Publications by Year in descending order

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92
papers

6,094
citations

71061

41
h-index

71651

76
g-index

94
all docs

94
docs citations

94
times ranked

6040
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid cloning of high-affinity human monoclonal antibodies against influenza virus. <i>Nature</i> , 2008, 453, 667-671.	13.7	959
2	Epitopes on protein antigens: Misconceptions and realities. <i>Cell</i> , 1990, 61, 553-556.	13.5	550
3	The neuraminidase of influenza virus. <i>Proteins: Structure, Function and Bioinformatics</i> , 1989, 6, 341-356.	1.5	286
4	Glycomic Analysis of Human Respiratory Tract Tissues and Correlation with Influenza Virus Infection. <i>PLoS Pathogens</i> , 2013, 9, e1003223.	2.1	209
5	Influenza neuraminidase. <i>Influenza and Other Respiratory Viruses</i> , 2012, 6, 245-256.	1.5	202
6	Evolving complexities of influenza virus and its receptors. <i>Trends in Microbiology</i> , 2008, 16, 149-157.	3.5	185
7	Three-dimensional Structure of Influenza A N9 Neuraminidase and Its Complex with the Inhibitor 2-Deoxy 2,3-Dehydro-N-Acetyl Neuraminic Acid. <i>Journal of Molecular Biology</i> , 1993, 232, 1069-1083.	2.0	146
8	Receptor binding specificity of recent human H3N2 influenza viruses. <i>Virology Journal</i> , 2007, 4, 42.	1.4	146
9	Nucleotide sequence coding for the signal peptide and N terminus of the hemagglutinin from an Asian (H2N2) strain of influenza virus. <i>Virology</i> , 1979, 97, 468-472.	1.1	145
10	Molecular Basis for the Resistance of Influenza Viruses to 4-Guanidino-Neu5Ac2en. <i>Virology</i> , 1995, 214, 642-646.	1.1	125
11	A Sialylated Glycan Microarray Reveals Novel Interactions of Modified Sialic Acids with Proteins and Viruses. <i>Journal of Biological Chemistry</i> , 2011, 286, 31610-31622.	1.6	125
12	Selection and Characterization of a Neuraminidase-Minus Mutant of Influenza Virus and Its Rescue by Cloned Neuraminidase Genes. <i>Virology</i> , 1993, 194, 403-407.	1.1	124
13	Site-directed mutation of the active site of influenza neuraminidase and implications for the catalytic mechanism. <i>Biochemistry</i> , 1987, 26, 5351-5358.	1.2	105
14	Structures of Aromatic Inhibitors of Influenza Virus Neuraminidase. <i>Biochemistry</i> , 1995, 34, 3144-3151.	1.2	101
15	Human H3N2 Influenza Viruses Isolated from 1968 To 2012 Show Varying Preference for Receptor Substructures with No Apparent Consequences for Disease or Spread. <i>PLoS ONE</i> , 2013, 8, e66325.	1.1	101
16	Structure of Influenza Virus Neuraminidase B/Lee/40 Complexed with Sialic Acid and a Dehydro Analog at 1.8-Å Resolution: Implications for the Catalytic Mechanism. <i>Biochemistry</i> , 1994, 33, 8172-8179.	1.2	98
17	Immunodominance of Antigenic Site B over Site A of Hemagglutinin of Recent H3N2 Influenza Viruses. <i>PLoS ONE</i> , 2012, 7, e41895.	1.1	92
18	Antibody Epitopes on the Neuraminidase of a Recent H3N2 Influenza Virus (A/Memphis/31/98). <i>Journal of Virology</i> , 2002, 76, 12274-12280.	1.5	90

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19	Functional Glycomic Analysis of Human Milk Glycans Reveals the Presence of Virus Receptors and Embryonic Stem Cell Biomarkers. <i>Journal of Biological Chemistry</i> , 2012, 287, 44784-44799.	1.6	90
20	Glycomic Characterization of Respiratory Tract Tissues of Ferrets. <i>Journal of Biological Chemistry</i> , 2014, 289, 28489-28504.	1.6	82
21	A Sialic Acid-derived Phosphonate Analog Inhibits Different Strains of Influenza Virus Neuraminidase with Different Efficiencies. <i>Journal of Molecular Biology</i> , 1995, 245, 623-634.	2.0	76
22	Structure-Based Inhibitors of Influenza Virus Sialidase. A Benzoic Acid Lead with Novel Interaction. <i>Journal of Medicinal Chemistry</i> , 1995, 38, 3217-3225.	2.9	74
23	Human Parainfluenza Viruses hPIV1 and hPIV3 Bind Oligosaccharides with α 2-3-Linked Sialic Acids That Are Distinct from Those Bound by H5 Avian Influenza Virus Hemagglutinin. <i>Journal of Virology</i> , 2007, 81, 8341-8345.	1.5	63
24	The prototype HIV-1 maturation inhibitor, bevirimat, binds to the CA-SP1 cleavage site in immature Gag particles. <i>Retrovirology</i> , 2011, 8, 101.	0.9	63
25	Influenza vaccination responses in human systemic lupus erythematosus: Impact of clinical and demographic features. <i>Arthritis and Rheumatism</i> , 2011, 63, 2396-2406.	6.7	63
26	Nucleotide Sequence Coding for the N-Terminal Region of the Matrix Protein of Influenza Virus. <i>FEBS Journal</i> , 1979, 96, 363-372.	0.2	61
27	Variation in the membrane-insertion and "stalk" sequences in eight subtypes of influenza type A virus neuraminidase. <i>Biochemistry</i> , 1982, 21, 4001-4007.	1.2	61
28	Identification of critical contact residues in the NC41 epitope of a subtype N9 influenza virus neuraminidase. <i>Proteins: Structure, Function and Bioinformatics</i> , 1993, 15, 121-132.	1.5	61
29	Novel aromatic inhibitors of influenza virus neuraminidase make selective interactions with conserved residues and water molecules in the active site 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 1999, 293, 1107-1119.	2.0	61
30	HLA class I molecules consistently present internal influenza epitopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 540-545.	3.3	61
31	Potent Inhibition of Influenza Sialidase by a Benzoic Acid Containing a 2-Pyrrolidinone Substituent. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 2332-2343.	2.9	60
32	An Epidemiologically Significant Epitope of a 1998 Human Influenza Virus Neuraminidase Forms a Highly Hydrated Interface in the NA α 2-3 Antibody Complex. <i>Journal of Molecular Biology</i> , 2006, 356, 651-663.	2.0	57
33	Distribution of sequence differences in influenza N9 neuraminidase of tern and whale viruses and crystallization of the whale neuraminidase complexed with antibodies. <i>Virology</i> , 1987, 160, 346-354.	1.1	55
34	Apoptosis by influenza viruses correlates with efficiency of viral mRNA synthesis. <i>Virus Research</i> , 2001, 77, 3-17.	1.1	54
35	Amount and avidity of serum antibodies against native glycoproteins and denatured virus after repeated influenza whole-virus vaccination. <i>Vaccine</i> , 2005, 23, 1414-1425.	1.7	51
36	Site-directed mutagenesis of catalytic residues of influenza virus neuraminidase as an aid to drug design. <i>FEBS Journal</i> , 1998, 258, 320-331.	0.2	50

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37	Antibody quantity versus quality after influenza vaccination. <i>Vaccine</i> , 2009, 27, 6358-6362.	1.7	50
38	Hemagglutinin Specificity and Neuraminidase Coding Capacity of Neuraminidase-Deficient Influenza Viruses. <i>Virology</i> , 1997, 229, 155-165.	1.1	47
39	A strategy for theoretical binding constant, K_i , calculations for neuraminidase aromatic inhibitors designed on the basis of the active site structure of influenza virus neuraminidase. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 23, 264-277.	1.5	45
40	Mismatched hemagglutinin and neuraminidase specificities in recent human H3N2 influenza viruses. <i>Virology</i> , 2005, 339, 12-20.	1.1	45
41	Evaluations for In Vitro Correlates of Immunogenicity of Inactivated Influenza A H5, H7 and H9 Vaccines in Humans. <i>PLoS ONE</i> , 2012, 7, e50830.	1.1	44
42	Antigenic, sequence, and crystal variation in influenza B neuraminidase. <i>Virology</i> , 1990, 177, 578-587.	1.1	43
43	Glycosylation changes in the globular head of H3N2 influenza hemagglutinin modulate receptor binding without affecting virus virulence. <i>Scientific Reports</i> , 2016, 6, 36216.	1.6	43
44	The Molecular Basis of Antigenic Variation in Influenza Virus. <i>Advances in Virus Research</i> , 1986, 31, 53-102.	0.9	41
45	Generation and Characterization of a Mutant of Influenza A Virus Selected with the Neuraminidase Inhibitor BCX-140. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 801-807.	1.4	40
46	Binding of influenza viruses to sialic acids: reassortant viruses with A/NWS/33 hemagglutinin bind to α 2,8-linked sialic acid. <i>Virology</i> , 2004, 325, 340-350.	1.1	39
47	Transfer of the hemagglutinin activity of influenza virus neuraminidase subtype N9 into an N2 neuraminidase background. <i>Virology</i> , 1991, 183, 496-504.	1.1	38
48	Influenza virus-glycan interactions. <i>Current Opinion in Virology</i> , 2014, 7, 128-133.	2.6	38
49	Hydrophobic benzoic acids as inhibitors of influenza neuraminidase. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 2487-2497.	1.4	36
50	Influenza Virus Sequence Feature Variant Type Analysis: Evidence of a Role for NS1 in Influenza Virus Host Range Restriction. <i>Journal of Virology</i> , 2012, 86, 5857-5866.	1.5	35
51	Deletions of neuraminidase and resistance to oseltamivir may be a consequence of restricted receptor specificity in recent H3N2 influenza viruses. <i>Virology Journal</i> , 2009, 6, 22.	1.4	34
52	Design of benzoic acid inhibitors of influenza neuraminidase containing a cyclic substitution for the N-acetyl grouping. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 1901-1906.	1.0	32
53	Glycan array analysis of influenza H1N1 binding and release. <i>Cancer Biomarkers</i> , 2014, 14, 43-53.	0.8	31
54	Influenza virus antigenicity and broadly neutralizing epitopes. <i>Current Opinion in Virology</i> , 2015, 11, 113-121.	2.6	29

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55	Red Cells Bound to Influenza Virus N9 Neuraminidase Are Not Released by the N9 Neuraminidase Activity. <i>Virology</i> , 1995, 211, 278-284.	1.1	28
56	Pyrrolidinobenzoic acid inhibitors of influenza virus neuraminidase: modifications of essential pyrrolidinone ring substituents. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 2739-2749.	1.4	28
57	Probing Virus-Glycan Interactions Using Glycan Microarrays. <i>Methods in Molecular Biology</i> , 2012, 808, 251-267.	0.4	25
58	Loss of enzyme activity in a site-directed mutant of influenza neuraminidase compared to expressed wild-type protein. <i>Virology</i> , 1986, 148, 74-83.	1.1	23
59	Fixation of Oligosaccharides to a Surface May Increase the Susceptibility to Human Parainfluenza Virus 1, 2, or 3 Hemagglutinin-Neuraminidase. <i>Journal of Virology</i> , 2011, 85, 12146-12159.	1.5	21
60	Sialic acid is cleaved from glycoconjugates at the cell surface when influenza virus neuraminidases are expressed from recombinant vaccinia viruses. <i>Virology</i> , 1989, 170, 346-351.	1.1	20
61	Contacts between Influenza Virus N9 Neuraminidase and Monoclonal Antibody NC10. <i>Virology</i> , 2002, 300, 255-268.	1.1	20
62	Amino acid sequences from the gene F(Capsid) protein of bacteriophage ϕ X174. <i>Journal of Molecular Biology</i> , 1976, 107, 433-443.	2.0	19
63	Influenza Neuraminidase as Target for Antivirals. <i>Advances in Virus Research</i> , 1999, 54, 375-402.	0.9	19
64	Quantitative Comparison of Human Parainfluenza Virus Hemagglutinin-Neuraminidase Receptor Binding and Receptor Cleavage. <i>Journal of Virology</i> , 2013, 87, 8962-8970.	1.5	19
65	Effects of site-specific mutation on structure and activity of influenza virus B/Lee/40 neuraminidase. <i>Virology</i> , 1987, 156, 253-258.	1.1	18
66	DNA-dependent RNA polymerase from the thermophilic bacterium <i>Thermus aquaticus</i> . <i>FEBS Letters</i> , 1974, 38, 277-281.	1.3	16
67	Nucleotide and deduced amino acid sequence of the influenza neuraminidase genes of two equine serotypes. <i>Virology</i> , 1986, 155, 460-468.	1.1	15
68	Interaction between a 1998 human influenza virus N2 neuraminidase and monoclonal antibody Mem5. <i>Virology</i> , 2006, 345, 424-433.	1.1	14
69	Increased antibodies against unfolded viral antigens in the elderly after influenza vaccination. <i>Influenza and Other Respiratory Viruses</i> , 2007, 1, 147-156.	1.5	14
70	Pyrrolidinobenzoic acid inhibitors of influenza virus neuraminidase: The hydrophobic side chain influences type A subtype selectivity. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 4582-4589.	1.4	14
71	Possible basis for the emergence of H1N1 viruses with pandemic potential from avian hosts. <i>Emerging Microbes and Infections</i> , 2015, 4, 1-10.	3.0	14
72	Correlation between a Coat Protein Amino-terminal Sequence and a Ribosome-binding DNA Sequence from ϕ X 174. <i>Nature: New Biology</i> , 1973, 241, 40-41.	4.5	13

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73	Probing the Structure of Influenza B Hemagglutinin Using Site-Directed Mutagenesis. <i>Virology</i> , 1995, 206, 787-795.	1.1	12
74	Critical Interactions in Binding Antibody NC41 to Influenza N9 Neuraminidase:Â Amino Acid Contacts on the Antibody Heavy Chainâ€. <i>Biochemistry</i> , 1998, 37, 10660-10670.	1.2	12
75	Influenza Type B Neuraminidase Can Replace the Function of Type A Neuraminidase. <i>Virology</i> , 1999, 264, 265-277.	1.1	11
76	Crystal structure of a new benzoic acid inhibitor of influenza neuraminidase bound with a new tilt induced by overpacking subsite C6. <i>BMC Structural Biology</i> , 2012, 12, 7.	2.3	11
77	New crystalline forms of neuraminidase of type B human influenza virus. <i>Journal of Molecular Biology</i> , 1990, 214, 639-640.	2.0	10
78	A correction to the sequence of the alpha chains of horse haemoglobin. <i>Journal of Molecular Biology</i> , 1976, 103, 675-677.	2.0	8
79	Rapid DNA Sequence Analysi. <i>CRC Critical Reviews in Biochemistry</i> , 1979, 6, 1-33.	2.0	8
80	Defining the Requirements for an Antibody Epitope on Influenza Virus Neuraminidase:. <i>Journal of Molecular Biology</i> , 1994, 235, 747-759.	2.0	8
81	Individual Antibody and T Cell Responses to Vaccination and Infection with the 2009 Pandemic Swine-Origin H1N1 Influenza Virus. <i>Journal of Clinical Immunology</i> , 2011, 31, 900-912.	2.0	7
82	Antigenicity of influenza virus hemagglutinin following chemical modification. <i>Virology</i> , 1981, 111, 538-548.	1.1	5
83	Influenza Virus Antiviral Targets. , 0, , 187-207.		5
84	A benzoic acid inhibitor induces a novel conformational change in the active site ofInfluenza B virusneuraminidase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1017-1023.	2.5	4
85	CONSERVATION AND VARIATION IN INFLUENZA GENE SEQUENCES. , 1981, , 29-44.		4
86	DNA Sequencing of Viral Genomes. , 1979, , 205-292.		2
87	The Glycobiology of Influenza Viruses. , 0, , 839-850.		1
88	Novel isoforms of influenza virus PA-X and PB1-F2 indicated by automatic annotation. <i>Virus Research</i> , 2021, 304, 198545.	1.1	1
89	Evaluation of influenza A virus receptors. <i>International Congress Series</i> , 2001, 1219, 487-502.	0.2	0
90	Editorial overview: virusâ€glycan interactions and pathogenesis. <i>Current Opinion in Virology</i> , 2014, 7, v-vi.	2.6	0

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91	Variability in HLA class I viral peptide presentation during infection with two different Influenza A H1N1 strains. FASEB Journal, 2008, 22, 1068.2.	0.2	0
92	Crystal Structures of Influenza Virus Neuraminidase Complexed with Monoclonal Antibody Fab Fragments. , 1990, , 49-60.		0