

# Kimberly A Dowd

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

6,500  
citations

101543

36  
h-index

118850

62  
g-index

62  
all docs

62  
docs citations

62  
times ranked

7645  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zika virus protection by a single low-dose nucleoside-modified mRNA vaccination. <i>Nature</i> , 2017, 543, 248-251.	27.8	699
2	Modified mRNA Vaccines Protect against Zika Virus Infection. <i>Cell</i> , 2017, 168, 1114-1125.e10.	28.9	633
3	Rapid development of a DNA vaccine for Zika virus. <i>Science</i> , 2016, 354, 237-240.	12.6	348
4	A CRISPR screen defines a signal peptide processing pathway required by flaviviruses. <i>Nature</i> , 2016, 535, 164-168.	27.8	327
5	Structural Basis of Zika Virus-Specific Antibody Protection. <i>Cell</i> , 2016, 166, 1016-1027.	28.9	325
6	Spontaneous Control of Primary Hepatitis C Virus Infection and Immunity Against Persistent Reinfection. <i>Gastroenterology</i> , 2010, 138, 315-324.	1.3	316
7	Safety, tolerability, and immunogenicity of two Zika virus DNA vaccine candidates in healthy adults: randomised, open-label, phase 1 clinical trials. <i>Lancet, The</i> , 2018, 391, 552-562.	13.7	235
8	Development of a Highly Protective Combination Monoclonal Antibody Therapy against Chikungunya Virus. <i>PLoS Pathogens</i> , 2013, 9, e1003312.	4.7	228
9	Vaccine Mediated Protection Against Zika Virus-Induced Congenital Disease. <i>Cell</i> , 2017, 170, 273-283.e12.	28.9	224
10	Selection Pressure From Neutralizing Antibodies Drives Sequence Evolution During Acute Infection With Hepatitis C Virus. <i>Gastroenterology</i> , 2009, 136, 2377-2386.	1.3	207
11	Safety and tolerability of chikungunya virus-like particle vaccine in healthy adults: a phase 1 dose-escalation trial. <i>Lancet, The</i> , 2014, 384, 2046-2052.	13.7	206
12	Broadly Neutralizing Activity of Zika Virus-Immune Sera Identifies a Single Viral Serotype. <i>Cell Reports</i> , 2016, 16, 1485-1491.	6.4	190
13	Structure and Function Analysis of Therapeutic Monoclonal Antibodies against Dengue Virus Type 2. <i>Journal of Virology</i> , 2010, 84, 9227-9239.	3.4	189
14	Antibody-mediated neutralization of flaviviruses: A reductionist view. <i>Virology</i> , 2011, 411, 306-315.	2.4	170
15	A Dynamic Landscape for Antibody Binding Modulates Antibody-Mediated Neutralization of West Nile Virus. <i>PLoS Pathogens</i> , 2011, 7, e1002111.	4.7	134
16	High-Programmed Death-1 Levels on Hepatitis C Virus-Specific T Cells during Acute Infection Are Associated with Viral Persistence and Require Preservation of Cognate Antigen during Chronic Infection. <i>Journal of Immunology</i> , 2008, 181, 8215-8225.	0.8	114
17	Poorly Neutralizing Cross-Reactive Antibodies against the Fusion Loop of West Nile Virus Envelope Protein Protect <i>In Vivo</i> via Fcγ3 Receptor and Complement-Dependent Effector Mechanisms. <i>Journal of Virology</i> , 2011, 85, 11567-11580.	3.4	110
18	Structural Basis of Differential Neutralization of DENV-1 Genotypes by an Antibody that Recognizes a Cryptic Epitope. <i>PLoS Pathogens</i> , 2012, 8, e1002930.	4.7	103

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19	Shake, rattle, and roll: Impact of the dynamics of flavivirus particles on their interactions with the host. <i>Virology</i> , 2015, 479-480, 508-517.	2.4	103
20	Netrin Binds Discrete Subdomains of DCC and UNC5 and Mediates Interactions between DCC and Heparin. <i>Journal of Biological Chemistry</i> , 2003, 278, 32561-32568.	3.4	92
21	Combined Effects of the Structural Heterogeneity and Dynamics of Flaviviruses on Antibody Recognition. <i>Journal of Virology</i> , 2014, 88, 11726-11737.	3.4	91
22	Genotypic Differences in Dengue Virus Neutralization Are Explained by a Single Amino Acid Mutation That Modulates Virus Breathing. <i>MBio</i> , 2015, 6, e01559-15.	4.1	71
23	Acceleration of Hepatitis C Virus Envelope Evolution in Humans Is Consistent with Progressive Humoral Immune Selection during the Transition from Acute to Chronic Infection. <i>Journal of Virology</i> , 2010, 84, 5067-5077.	3.4	70
24	Enhancing dengue virus maturation using a stable furin over-expressing cell line. <i>Virology</i> , 2016, 497, 33-40.	2.4	69
25	A single mutation in the envelope protein modulates flavivirus antigenicity, stability, and pathogenesis. <i>PLoS Pathogens</i> , 2017, 13, e1006178.	4.7	69
26	Effect of a Chikungunya Virus-Like Particle Vaccine on Safety and Tolerability Outcomes. <i>JAMA - Journal of the American Medical Association</i> , 2020, 323, 1369.	7.4	68
27	A VSV-based Zika virus vaccine protects mice from lethal challenge. <i>Scientific Reports</i> , 2018, 8, 11043.	3.3	63
28	Hepatitis C Virus Infection of Neuroepithelioma Cell Lines. <i>Gastroenterology</i> , 2010, 139, 1365-1374.e2.	1.3	59
29	Mechanism and Significance of Cell Type-Dependent Neutralization of Flaviviruses. <i>Journal of Virology</i> , 2014, 88, 7210-7220.	3.4	58
30	Zika Virus Is Not Uniquely Stable at Physiological Temperatures Compared to Other Flaviviruses. <i>MBio</i> , 2016, 7, .	4.1	52
31	Potent Dengue Virus Neutralization by a Therapeutic Antibody with Low Monovalent Affinity Requires Bivalent Engagement. <i>PLoS Pathogens</i> , 2014, 10, e1004072.	4.7	51
32	A Virus-Like Particle Vaccine Elicits Broad Neutralizing Antibody Responses in Humans to All Chikungunya Virus Genotypes. <i>Journal of Infectious Diseases</i> , 2016, 214, 1487-1491.	4.0	51
33	Development of a potent Zika virus vaccine using self-amplifying messenger RNA. <i>Science Advances</i> , 2020, 6, eaba5068.	10.3	50
34	The Many Faces of a Dynamic Virion: Implications of Viral Breathing on Flavivirus Biology and Immunogenicity. <i>Annual Review of Virology</i> , 2018, 5, 185-207.	6.7	49
35	Engineered Dengue Virus Domain III Proteins Elicit Cross-Neutralizing Antibody Responses in Mice. <i>Journal of Virology</i> , 2018, 92, .	3.4	42
36	Protective Efficacy of Nucleic Acid Vaccines Against Transmission of Zika Virus During Pregnancy in Mice. <i>Journal of Infectious Diseases</i> , 2019, 220, 1577-1588.	4.0	39

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37	The Infectivity of prM-Containing Partially Mature West Nile Virus Does Not Require the Activity of Cellular Furin-Like Proteases. <i>Journal of Virology</i> , 2011, 85, 12067-12072.	3.4	36
38	The Type-Specific Neutralizing Antibody Response Elicited by a Dengue Vaccine Candidate Is Focused on Two Amino Acids of the Envelope Protein. <i>PLoS Pathogens</i> , 2013, 9, e1003761.	4.7	34
39	DNA vaccination before conception protects Zika virus-exposed pregnant macaques against prolonged viremia and improves fetal outcomes. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	31
40	Distinct neutralizing antibody correlates of protection among related Zika virus vaccines identify a role for antibody quality. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	30
41	Pseudo-infectious Reporter Virus Particles for Measuring Antibody-Mediated Neutralization and Enhancement of Dengue Virus Infection. <i>Methods in Molecular Biology</i> , 2014, 1138, 75-97.	0.9	28
42	Mechanism of differential Zika and dengue virus neutralization by a public antibody lineage targeting the DIII lateral ridge. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	26
43	Maternal Neutralizing Antibody and Transmission of Hepatitis C Virus to Infants. <i>Journal of Infectious Diseases</i> , 2008, 198, 1651-1655.	4.0	25
44	A protective human monoclonal antibody targeting the West Nile virus E protein preferentially recognizes mature virions. <i>Nature Microbiology</i> , 2019, 4, 71-77.	13.3	25
45	A Novel Approach for the Rapid Mutagenesis and Directed Evolution of the Structural Genes of West Nile Virus. <i>Journal of Virology</i> , 2012, 86, 3501-3512.	3.4	22
46	B Cell Response and Mechanisms of Antibody Protection to West Nile Virus. <i>Viruses</i> , 2014, 6, 1015-1036.	3.3	20
47	CD4 <sup>+</sup> T-Cell-Dependent Reduction in Hepatitis C Virus-Specific Neutralizing Antibody Responses After Coinfection With Human Immunodeficiency Virus. <i>Journal of Infectious Diseases</i> , 2015, 212, 914-923.	4.0	18
48	The Fc Region of an Antibody Impacts the Neutralization of West Nile Viruses in Different Maturation States. <i>Journal of Virology</i> , 2013, 87, 13729-13740.	3.4	17
49	Context-Dependent Cleavage of the Capsid Protein by the West Nile Virus Protease Modulates the Efficiency of Virus Assembly. <i>Journal of Virology</i> , 2015, 89, 8632-8642.	3.4	15
50	Functional Profiling of Antibody Immune Repertoires in Convalescent Zika Virus Disease Patients. <i>Frontiers in Immunology</i> , 2021, 12, 615102.	4.8	15
51	Levels of Circulating NS1 Impact West Nile Virus Spread to the Brain. <i>Journal of Virology</i> , 2021, 95, e0084421.	3.4	13
52	Long-term clinical outcomes of Zika-associated Guillain-Barré syndrome. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-4.	6.5	11
53	Non-structural protein 1-specific antibodies directed against Zika virus in humans mediate antibody-dependent cellular cytotoxicity. <i>Immunology</i> , 2021, 164, 386-397.	4.4	11
54	Dengue Virus Serotype 1 Conformational Dynamics Confers Virus Strain-Dependent Patterns of Neutralization by Polyclonal Sera. <i>Journal of Virology</i> , 2021, 95, e0095621.	3.4	8

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55	Complex phenotypes in mosquitoes and mice associated with neutralization escape of a Dengue virus type 1 monoclonal antibody. <i>Virology</i> , 2012, 427, 127-134.	2.4	6
56	Resurfaced ZIKV EDIII nanoparticle immunogens elicit neutralizing and protective responses in vivo. <i>Cell Chemical Biology</i> , 2022, 29, 811-823.e7.	5.2	6
57	Limited Flavivirus Cross-Reactive Antibody Responses Elicited by a Zika Virus Deoxyribonucleic Acid Vaccine Candidate in Humans. <i>Journal of Infectious Diseases</i> , 2021, 224, 1550-1555.	4.0	5
58	Implications of a highly divergent dengue virus strain for cross-neutralization, protection, and vaccine immunity. <i>Cell Host and Microbe</i> , 2021, 29, 1634-1648.e5.	11.0	5
59	Simian Immunodeficiency Virus Infection of Rhesus Macaques Results in Delayed Zika Virus Clearance. <i>MBio</i> , 2019, 10, .	4.1	4
60	Impact of viral attachment factor expression on antibody-mediated neutralization of flaviviruses. <i>Virology</i> , 2013, 437, 20-27.	2.4	3
61	Nonhuman primates exposed to Zika virus in utero are not protected against reinfection at 1 year postpartum. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	1