

# William David Tolbert

## List of Publications by Citations

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41  
papers

713  
citations

15  
h-index

26  
g-index

46  
ext. papers

1,073  
ext. citations

8.5  
avg, IF

3.55  
L-index

#	Paper	IF	Citations
41	Structural definition of an antibody-dependent cellular cytotoxicity response implicated in reduced risk for HIV-1 infection. <i>Journal of Virology</i> , <b>2014</b> , 88, 12895-906	6.6	82
40	An Asymmetric Opening of HIV-1 Envelope Mediates Antibody-Dependent Cellular Cytotoxicity. <i>Cell Host and Microbe</i> , <b>2019</b> , 25, 578-587.e5	23.4	59
39	Identification of Near-Pan-neutralizing Antibodies against HIV-1 by Deconvolution of Plasma Humoral Responses. <i>Cell</i> , <b>2018</b> , 173, 1783-1795.e14	56.2	47
38	Co-receptor Binding Site Antibodies Enable CD4-Mimetics to Expose Conserved Anti-cluster A ADCC Epitopes on HIV-1 Envelope Glycoproteins. <i>EBioMedicine</i> , <b>2016</b> , 12, 208-218	8.8	45
37	Cocrystal Structures of Antibody N60-i3 and Antibody JR4 in Complex with gp120 Define More Cluster A Epitopes Involved in Effective Antibody-Dependent Effector Function against HIV-1. <i>Journal of Virology</i> , <b>2015</b> , 89, 8840-54	6.6	44
36	Mechanism of human S-adenosylmethionine decarboxylase proenzyme processing as revealed by the structure of the S68A mutant. <i>Biochemistry</i> , <b>2003</b> , 42, 2386-95	3.2	39
35	Paring Down HIV Env: Design and Crystal Structure of a Stabilized Inner Domain of HIV-1 gp120 Displaying a Major ADCC Target of the A32 Region. <i>Structure</i> , <b>2016</b> , 24, 697-709	5.2	35
34	Design of a potent antibiotic peptide based on the active region of human defensin 5. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 3083-93	8.3	33
33	3-Deoxy-D-manno-octulosonate-8-phosphate synthase from <i>Escherichia coli</i> . Model of binding of phosphoenolpyruvate and D-arabinose-5-phosphate. <i>Journal of Molecular Biology</i> , <b>2000</b> , 301, 233-8	6.5	32
32	Two Families of Env Antibodies Efficiently Engage Fc-Gamma Receptors and Eliminate HIV-1-Infected Cells. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	32
31	Targeting the Late Stage of HIV-1 Entry for Antibody-Dependent Cellular Cytotoxicity: Structural Basis for Env Epitopes in the C11 Region. <i>Structure</i> , <b>2017</b> , 25, 1719-1731.e4	5.2	26
30	Structural basis and mode of action for two broadly neutralizing antibodies against SARS-CoV-2 emerging variants of concern.. <i>Cell Reports</i> , <b>2021</b> , 110210	10.6	26
29	Antibody-Induced Internalization of HIV-1 Env Proteins Limits Surface Expression of the Closed Conformation of Env. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	23
28	Molecular basis for epitope recognition by non-neutralizing anti-gp41 antibody F240. <i>Scientific Reports</i> , <b>2016</b> , 6, 36685	4.9	18
27	CD4 Incorporation into HIV-1 Viral Particles Exposes Envelope Epitopes Recognized by CD4-Induced Antibodies. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	15
26	Structural Basis for Epitopes in the gp120 Cluster A Region that Invokes Potent Effector Cell Activity. <i>Viruses</i> , <b>2019</b> , 11,	6.2	15
25	The HIV-1 Env gp120 Inner Domain Shapes the Phe43 Cavity and the CD4 Binding Site. <i>MBio</i> , <b>2020</b> , 11,	7.8	14

24	Boosting with AIDSVAX B/E Enhances Env Constant Region 1 and 2 Antibody-Dependent Cellular Cytotoxicity Breadth and Potency. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	13
23	A Highly Conserved gp120 Inner Domain Residue Modulates Env Conformation and Trimer Stability. <i>Journal of Virology</i> , <b>2016</b> , 90, 8395-409	6.6	13
22	The HIV-1 Antisense Protein ASP Is a Transmembrane Protein of the Cell Surface and an Integral Protein of the Viral Envelope. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	12
21	A New Family of Small-Molecule CD4-Mimetic Compounds Contacts Highly Conserved Aspartic Acid 368 of HIV-1 gp120 and Mediates Antibody-Dependent Cellular Cytotoxicity. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	11
20	A Fc-enhanced NTD-binding non-neutralizing antibody delays virus spread and synergizes with a nAb to protect mice from lethal SARS-CoV-2 infection.. <i>Cell Reports</i> , <b>2022</b> , 110368	10.6	10
19	Antigen-Induced Allosteric Changes in a Human IgG1 Fc Increase Low-Affinity FcγReceptor Binding. <i>Structure</i> , <b>2020</b> , 28, 516-527.e5	5.2	9
18	From Rhesus macaque to human: structural evolutionary pathways for immunoglobulin G subclasses. <i>MABs</i> , <b>2019</b> , 11, 709-724	6.6	7
17	Defining rules governing recognition and Fc-mediated effector functions to the HIV-1 co-receptor binding site. <i>BMC Biology</i> , <b>2020</b> , 18, 91	7.3	7
16	Crystallization and preliminary crystallographic studies of 3-deoxy-D-manno-octulosonate-8-phosphate synthase from Escherichia coli. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1996</b> , 24, 407-8	4.2	5
15	Structural Basis and Mode of Action for Two Broadly Neutralizing Antibodies Against SARS-CoV-2 Emerging Variants of Concern <b>2021</b> ,		5
14	Systematic mutational analysis of human neutrophil α-defensin HNP4. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2019</b> , 1861, 835-844	3.8	4
13	Optimization of Small Molecules That Sensitize HIV-1 Infected Cells to Antibody-Dependent Cellular Cytotoxicity. <i>ACS Medicinal Chemistry Letters</i> , <b>2020</b> , 11, 371-378	4.3	4
12	Stabilizing the HIV-1 envelope glycoprotein State 2A conformation. <i>Journal of Virology</i> , <b>2020</b> ,	6.6	4
11	An anti-SARS-CoV-2 non-neutralizing antibody with Fc-effector function defines a new NTD epitope and delays neuroinvasion and death in K18-hACE2 mice		4
10	Induction of Fc-Mediated Effector Functions Against a Stabilized Inner Domain of HIV-1 gp120 Designed to Selectively Harbor the A32 Epitope Region. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 677	8.4	3
9	Design of ultrahigh-affinity and dual-specificity peptide antagonists of MDM2 and MDMX for P53 activation and tumor suppression. <i>Acta Pharmaceutica Sinica B</i> , <b>2021</b> , 11, 2655-2669	15.5	3
8	Crystallization and preliminary crystallographic studies of the anthranilate synthase partial complex from Salmonella typhimurium. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>1999</b> , 55, 305-6		2
7	Nebulized delivery of a broadly neutralizing SARS-CoV-2 RBD-specific nanobody prevents clinical, virological and pathological disease in a Syrian hamster model of COVID-19 <b>2021</b> ,		2

6	Recognition Patterns of the C1/C2 Epitopes Involved in Fc-Mediated Response in HIV-1 Natural Infection and the RV114 Vaccine Trial. <i>MBio</i> , <b>2020</b> , 11,	7.8	2
5	Boosting with ALVAC-HIV and AIDSVAX B/E enhances Env constant region 1 and 2 antibody-dependent cellular cytotoxicity		1
4	Near-Pan-neutralizing, Plasma Deconvoluted Antibody N49P6 Mimics Host Receptor CD4 in Its Quaternary Interactions with the HIV-1 Envelope Trimer. <i>MBio</i> , <b>2021</b> , 12, e0127421	7.8	1
3	Across Functional Boundaries: Making Nonneutralizing Antibodies To Neutralize HIV-1 and Mediate Fc-Mediated Effector Killing of Infected Cells. <i>MBio</i> , <b>2021</b> , 12, e0140521	7.8	1
2	Nebulized delivery of a broadly neutralizing SARS-CoV-2 RBD-specific nanobody prevents clinical, virological, and pathological disease in a Syrian hamster model of COVID-19.. <i>MABs</i> , <b>2022</b> , 14, 2047144	6.6	1
1	Structure and Fc-Effector Function of Rhesusized Variants of Human Anti-HIV-1 IgG1s.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 787603	8.4	