

Narendra M Dixit

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,754
citations

394286

19
h-index

315616

38
g-index

66
all docs

66
docs citations

66
times ranked

1589
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling how antibody responses may determine the efficacy of COVID-19 vaccines. Nature Computational Science, 2022, 2, 123-131.	3.8	39
2	Transmitted HIV-1 is more virulent in heterosexual individuals than men-who-have-sex-with-men. PLoS Pathogens, 2022, 18, e1010319.	2.1	8
3	Modeling recapitulates the heterogeneous outcomes of SARS-CoV-2 infection and quantifies the differences in the innate immune and CD8 T-cell responses between patients experiencing mild and severe symptoms. PLoS Pathogens, 2022, 18, e1010630.	2.1	14
4	Physical "strength"™ of the multi-ε-protein chain connecting immune cells: Does the weakest link limit antibody affinity maturation?. BioEssays, 2021, 43, 2000159.	1.2	5
5	The within-host fitness of HIV-1 increases with age in ART-naïve HIV-1 subtype C infected children. Scientific Reports, 2021, 11, 2990.	1.6	3
6	A Low-Prevalence Single-Nucleotide Polymorphism in the Sensor Kinase PhoR in Mycobacterium tuberculosis Suppresses Its Autophosphatase Activity and Reduces Pathogenic Fitness: Implications in Evolutionary Selection. Frontiers in Microbiology, 2021, 12, 724482.	1.5	5
7	An efficient and scalable top-down method for predicting structures of microbial communities. Nature Computational Science, 2021, 1, 619-628.	3.8	16
8	Concerted Interactions between Multiple gp41 Trimers and the Target Cell Lipidome May Be Required for HIV-1 Entry. Journal of Chemical Information and Modeling, 2021, 61, 444-454.	2.5	9
9	Mechanistic insights into the effects of key mutations on SARS-CoV-2 RBD-ACE2 binding. Physical Chemistry Chemical Physics, 2021, 23, 26451-26458.	1.3	19
10	Increased B Cell Selection Stringency In Germinal Centers Can Explain Improved COVID-19 Vaccine Efficacies With Low Dose Prime or Delayed Boost. Frontiers in Immunology, 2021, 12, 776933.	2.2	24
11	Bistability in virus-host interaction networks underlies the success of hepatitis C treatments. , 2020, , 131-156.		0
12	Early exposure to broadly neutralizing antibodies may trigger a dynamical switch from progressive disease to lasting control of SHIV infection. PLoS Computational Biology, 2020, 16, e1008064.	1.5	17
13	Pre-existing resistance in the latent reservoir can compromise VRC01 therapy during chronic HIV-1 infection. PLoS Computational Biology, 2020, 16, e1008434.	1.5	11
14	Targeting TMPRSS2 and Cathepsin B/L together may be synergistic against SARS-CoV-2 infection. PLoS Computational Biology, 2020, 16, e1008461.	1.5	106
15	Strand-specific affinity of host factor hnRNP C1/C2 guides positive to negative-strand ratio in Coxsackievirus B3 infection. RNA Biology, 2019, 16, 1286-1299.	1.5	15
16	You Cannot Have Your Synergy and Efficacy Too. Trends in Pharmacological Sciences, 2019, 40, 811-817.	4.0	17
17	<i>110th Anniversary:</i> High-Order Interactions Can Eclipse Pairwise Interactions in Shaping the Structure of Microbial Communities. Industrial & Engineering Chemistry Research, 2019, 58, 23508-23518.	1.8	5
18	Towards multiscale modeling of the CD8⁺ T cell response to viral infections. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2019, 11, e1446.	6.6	16

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19	Mutational pathway maps and founder effects define the within-host spectrum of hepatitis C virus mutants resistant to drugs. <i>PLoS Pathogens</i> , 2019, 15, e1007701.	2.1	8
20	A dynamical motif comprising the interactions between antigens and CD8 T cells may underlie the outcomes of viral infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17393-17398.	3.3	33
21	Preferential Presentation of High-Affinity Immune Complexes in Germinal Centers Can Explain How Passive Immunization Improves the Humoral Response. <i>Cell Reports</i> , 2019, 29, 3946-3957.e5.	2.9	32
22	Salmonella escapes antigen presentation through K63 ubiquitination mediated endosomal proteolysis of MHC II via modulation of endosomal acidification in dendritic cells. <i>Pathogens and Disease</i> , 2018, 76, .	0.8	6
23	Interferon at the cellular, individual, and population level in hepatitis C virus infection: Its role in the interferon-free treatment era. <i>Immunological Reviews</i> , 2018, 285, 55-71.	2.8	11
24	Activation of Bacterial Histidine Kinases: Insights into the Kinetics of the <i>cis</i> Autophosphorylation Mechanism. <i>MSphere</i> , 2018, 3, .	1.3	12
25	Modeling how reversal of immune exhaustion elicits cure of chronic hepatitis C after the end of treatment with direct-acting antiviral agents. <i>Immunology and Cell Biology</i> , 2018, 96, 969-980.	1.0	18
26	Modelling how responsiveness to interferon improves interferon-free treatment of hepatitis C virus infection. <i>PLoS Computational Biology</i> , 2018, 14, e1006335.	1.5	14
27	Trade-off between synergy and efficacy in combinations of HIV-1 latency-reversing agents. <i>PLoS Computational Biology</i> , 2018, 14, e1006004.	1.5	13
28	Inhibitors of hepatitis C virus entry may be potent ingredients of optimal drug combinations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4524-E4526.	3.3	12
29	Influence of recombination on acquisition and reversion of immune escape and compensatory mutations in HIV-1. <i>Epidemics</i> , 2016, 14, 11-25.	1.5	17
30	Viral Decay Dynamics and Mathematical Modeling of Treatment Response: Evidence of Lower in vivo Fitness of HIV-1 Subtype C. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2016, 73, 245-251.	0.9	12
31	Scaling law characterizing the dynamics of the transition of HIV-1 to error catastrophe. <i>Physical Biology</i> , 2015, 12, 054001.	0.8	7
32	Models of Viral Population Dynamics. <i>Current Topics in Microbiology and Immunology</i> , 2015, 392, 277-302.	0.7	6
33	The two-component signalling networks of <i>Mycobacterium tuberculosis</i> display extensive cross-talk <i>in vitro</i> . <i>Biochemical Journal</i> , 2015, 469, 121-134.	1.7	41
34	The SPL7013 dendrimer destabilizes the HIV-1 gp120-CD4 complex. <i>Nanoscale</i> , 2015, 7, 18628-18641.	2.8	41
35	Emergent properties of the interferon-signalling network may underlie the success of hepatitis C treatment. <i>Nature Communications</i> , 2014, 5, 3872.	5.8	37
36	Estimating the fraction of progeny virions that must incorporate APOBEC3G for suppression of productive HIV-1 infection. <i>Virology</i> , 2014, 449, 224-228.	1.1	10

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37	Simulations reveal that the HIV-1 gp120-CD4 complex dissociates via complex pathways and is a potential target of the polyamidoamine (PAMAM) dendrimer. <i>Journal of Chemical Physics</i> , 2013, 139, 024905.	1.2	21
38	A Formula to Estimate the Optimal Dosage of Ribavirin for the Treatment of Chronic Hepatitis C: Influence of Itpa Polymorphisms. <i>Antiviral Therapy</i> , 2012, 17, 1581-1592.	0.6	6
39	A Finite Population Model of Molecular Evolution: Theory and Computation. <i>Journal of Computational Biology</i> , 2012, 19, 1176-1202.	0.8	20
40	Viral Kinetics Suggests a Reconciliation of the Disparate Observations of the Modulation of Claudin-1 Expression on Cells Exposed to Hepatitis C Virus. <i>PLoS ONE</i> , 2012, 7, e36107.	1.1	13
41	Stochastic Simulations Suggest that HIV-1 Survives Close to Its Error Threshold. <i>PLoS Computational Biology</i> , 2012, 8, e1002684.	1.5	28
42	Mathematical Model of Viral Kinetics In Vitro Estimates the Number of E2-CD81 Complexes Necessary for Hepatitis C Virus Entry. <i>PLoS Computational Biology</i> , 2011, 7, e1002307.	1.5	22
43	Ribavirin-Induced Anemia in Hepatitis C Virus Patients Undergoing Combination Therapy. <i>PLoS Computational Biology</i> , 2011, 7, e1001072.	1.5	30
44	Taking Multiple Infections of Cells and Recombination into Account Leads to Small Within-Host Effective-Population-Size Estimates of HIV-1. <i>PLoS ONE</i> , 2011, 6, e14531.	1.1	21
45	Estimating the Threshold Surface Density of Gp120-CCR5 Complexes Necessary for HIV-1 Envelope-Mediated Cell-Cell Fusion. <i>PLoS ONE</i> , 2011, 6, e19941.	1.1	21
46	Estimating Frequencies of Minority Nevirapine-Resistant Strains in Chronically HIV-1-Infected Individuals Naïve to Nevirapine by Using Stochastic Simulations and a Mathematical Model. <i>Journal of Virology</i> , 2010, 84, 10230-10240.	1.5	21
47	Timing the Emergence of Resistance to Anti-HIV Drugs with Large Genetic Barriers. <i>PLoS Computational Biology</i> , 2009, 5, e1000305.	1.5	24
48	Recombination increases human immunodeficiency virus fitness, but not necessarily diversity. <i>Journal of General Virology</i> , 2008, 89, 1467-1477.	1.3	57
49	Emergence of Recombinant Forms of HIV: Dynamics and Scaling. <i>PLoS Computational Biology</i> , 2007, 3, e205.	1.5	21
50	13 Modelling the in vivo growth rate of HIV: implications for vaccination. <i>Studies in Multidisciplinarity</i> , 2005, , 231-246.	0.0	6
51	HIV dynamics with multiple infections of target cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8198-8203.	3.3	94
52	Modelling how ribavirin improves interferon response rates in hepatitis C virus infection. <i>Nature</i> , 2004, 432, 922-924.	13.7	344
53	Complex patterns of viral load decay under antiretroviral therapy: influence of pharmacokinetics and intracellular delay. <i>Journal of Theoretical Biology</i> , 2004, 226, 95-109.	0.8	163
54	Estimates of intracellular delay and average drug efficacy from viral load data of HIV-infected individuals under antiretroviral therapy. <i>Antiviral Therapy</i> , 2004, 9, 237-46.	0.6	31

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55	Estimates of Intracellular Delay and Average Drug Efficacy from Viral Load Data of HIV-Infected Individuals under Antiretroviral Therapy. <i>Antiviral Therapy</i> , 2004, 9, 237-246.	0.6	79
56	Modeling Viral and Drug Kinetics: Hepatitis C Virus Treatment with Pegylated Interferon Alfa-2b. <i>Seminars in Liver Disease</i> , 2003, 23, 013-018.	1.8	47