

# Vitaly V Ganusov

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

4,142  
citations

136885

32  
h-index

123376

61  
g-index

90  
all docs

90  
docs citations

90  
times ranked

5766  
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Method Based on the von Mises-Fisher Distribution Shows that a Minority of Liver-Localized CD8 T Cells Display Hard-To-Detect Attraction to Plasmodium-Infected Hepatocytes. <i>Frontiers in Bioinformatics</i> , 2022, 1, .	1.0	10
2	Liver Environmentâ€™Imposed Constraints Diversify Movement Strategies of Liver-Localized CD8 T Cells. <i>Journal of Immunology</i> , 2022, 208, 1292-1304.	0.4	10
3	Mathematical Modeling Suggests Cooperation of Plant-Infecting Viruses. <i>Viruses</i> , 2022, 14, 741.	1.5	2
4	Interactions with Asialo-Glycoprotein Receptors and Platelets Are Dispensable for CD8<sup>+</sup> T Cell Localization in the Murine Liver. <i>Journal of Immunology</i> , 2022, 208, 2738-2748.	0.4	1
5	Ultra-low Dose Aerosol Infection of Mice with <i>Mycobacterium tuberculosis</i> More Closely Models Human Tuberculosis. <i>Cell Host and Microbe</i> , 2021, 29, 68-82.e5.	5.1	62
6	Experimental and Mathematical Approaches to Quantify Recirculation Kinetics of Lymphocytes. , 2021, , 151-169.		3
7	Impact of Oseltamivir Treatment on Influenza A and B Virus Dynamics in Human Volunteers. <i>Frontiers in Microbiology</i> , 2021, 12, 631211.	1.5	7
8	Treatment timing shifts the benefits of short and long antibiotic treatment over infection. <i>Evolution, Medicine and Public Health</i> , 2020, 2020, 249-263.	1.1	5
9	Experimental determination of the force of malaria infection reveals a non-linear relationship to mosquito sporozoite loads. <i>PLoS Pathogens</i> , 2020, 16, e1008181.	2.1	49
10	Title is missing!. , 2020, 16, e1008181.		0
11	Title is missing!. , 2020, 16, e1008181.		0
12	Title is missing!. , 2020, 16, e1008181.		0
13	Title is missing!. , 2020, 16, e1008181.		0
14	Clustering of Activated CD8 T Cells Around Malaria-Infected Hepatocytes Is Rapid and Is Driven by Antigen-Specific Cells. <i>Frontiers in Immunology</i> , 2019, 10, 2153.	2.2	18
15	Estimating Residence Times of Lymphocytes in Ovine Lymph Nodes. <i>Frontiers in Immunology</i> , 2019, 10, 1492.	2.2	8
16	Defining Kinetic Properties of HIV-Specific CD8+ T-Cell Responses in Acute Infection. <i>Microorganisms</i> , 2019, 7, 69.	1.6	3
17	The Rate of CD4 T Cell Entry into the Lungs during <i>Mycobacterium tuberculosis</i> Infection Is Determined by Partial and Opposing Effects of Multiple Chemokine Receptors. <i>Infection and Immunity</i> , 2019, 87, .	1.0	28
18	Editorial: Integrative Computational Systems Biology Approaches in Immunology and Medicine. <i>Frontiers in Microbiology</i> , 2019, 9, 3338.	1.5	1

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19	T follicular helper cells in human efferent lymph retain lymphoid characteristics. <i>Journal of Clinical Investigation</i> , 2019, 129, 3185-3200.	3.9	116
20	Tracking HIV-1 recombination to resolve its contribution to HIV-1 evolution in natural infection. <i>Nature Communications</i> , 2018, 9, 1928.	5.8	83
21	Cutting Edge: IL-1R1 Mediates Host Resistance to <i>Mycobacterium tuberculosis</i> by Trans-Protection of Infected Cells. <i>Journal of Immunology</i> , 2018, 201, 1645-1650.	0.4	28
22	Kinetics of HIV-Specific CTL Responses Plays a Minimal Role in Determining HIV Escape Dynamics. <i>Frontiers in Immunology</i> , 2018, 9, 140.	2.2	7
23	Time Intervals in Sequence Sampling, Not Data Modifications, Have a Major Impact on Estimates of HIV Escape Rates. <i>Viruses</i> , 2018, 10, 99.	1.5	3
24	Immunologic and Virologic Mechanisms for Partial Protection from Intravenous Challenge by an Integration-Defective SIV Vaccine. <i>Viruses</i> , 2017, 9, 135.	1.5	3
25	Severe Tuberculosis in Humans Correlates Best with Neutrophil Abundance and Lymphocyte Deficiency and Does Not Correlate with Antigen-Specific CD4 T-Cell Response. <i>Frontiers in Immunology</i> , 2017, 8, 963.	2.2	63
26	Quantifying Limits on Replication, Death, and Quiescence of <i>Mycobacterium tuberculosis</i> in Mice. <i>Frontiers in Microbiology</i> , 2016, 7, 862.	1.5	13
27	Strong Inference in Mathematical Modeling: A Method for Robust Science in the Twenty-First Century. <i>Frontiers in Microbiology</i> , 2016, 7, 1131.	1.5	48
28	CD4 T Cell-Derived IFN- $\gamma$ Plays a Minimal Role in Control of Pulmonary <i>Mycobacterium tuberculosis</i> Infection and Must Be Actively Repressed by PD-1 to Prevent Lethal Disease. <i>PLoS Pathogens</i> , 2016, 12, e1005667.	2.1	280
29	Evaluating contribution of the cellular and humoral immune responses to the control of shedding of <i>Mycobacterium avium</i> spp. paratuberculosis in cattle. <i>Veterinary Research</i> , 2015, 46, 62.	1.1	27
30	Plasmodium Suppresses Expansion of T Cell Responses to Heterologous Infections. <i>Journal of Immunology</i> , 2015, 194, 697-708.	0.4	10
31	Simple Mathematical Models Do Not Accurately Predict Early SIV Dynamics. <i>Viruses</i> , 2015, 7, 1189-1217.	1.5	16
32	Broad CTL Response in Early HIV Infection Drives Multiple Concurrent CTL Escapes. <i>PLoS Computational Biology</i> , 2015, 11, e1004492.	1.5	21
33	Mathematical Modeling Reveals Kinetics of Lymphocyte Recirculation in the Whole Organism. <i>PLoS Computational Biology</i> , 2014, 10, e1003586.	1.5	73
34	Competition for Antigen between Th1 and Th2 Responses Determines the Timing of the Immune Response Switch during <i>Mycobacterium avium</i> Subspecies paratuberculosis Infection in Ruminants. <i>PLoS Computational Biology</i> , 2014, 10, e1003414.	1.5	68
35	Classification of T cell movement tracks allows for prediction of cell function. <i>International Journal of Computational Biology and Drug Design</i> , 2014, 7, 113.	0.3	7
36	Mathematical modeling provides kinetic details of the human immune response to vaccination. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 177.	1.8	39

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37	Mathematical modeling of escape of HIV from cytotoxic T lymphocyte responses. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P01010.	0.9	38
38	Cellular and population plasticity of helper CD4+ T cell responses. <i>Frontiers in Physiology</i> , 2013, 4, 206.	1.3	59
39	A mechanistic model for bromodeoxyuridine dilution naturally explains labelling data of self-renewing T cell populations. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120617.	1.5	17
40	In vivo imaging of CD8 <sup>+</sup> T cell-mediated elimination of malaria liver stages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9090-9095.	3.3	148
41	Vertical T cell immunodominance and epitope entropy determine HIV-1 escape. <i>Journal of Clinical Investigation</i> , 2013, 123, 380-93.	3.9	165
42	Early Low-Titer Neutralizing Antibodies Impede HIV-1 Replication and Select for Virus Escape. <i>PLoS Pathogens</i> , 2012, 8, e1002721.	2.1	159
43	Distinct Kinetics of Gag-Specific CD4+ and CD8+ T Cell Responses during Acute HIV-1 Infection. <i>Journal of Immunology</i> , 2012, 188, 2198-2206.	0.4	24
44	Mtb-Specific CD27 <sup>low</sup> CD4 T Cells as Markers of Lung Tissue Destruction during Pulmonary Tuberculosis in Humans. <i>PLoS ONE</i> , 2012, 7, e43733.	1.1	64
45	Evolution of viral life-cycle in response to cytotoxic T lymphocyte-mediated immunity. <i>Journal of Theoretical Biology</i> , 2012, 310, 3-13.	0.8	4
46	Fitness Costs and Diversity of the Cytotoxic T Lymphocyte (CTL) Response Determine the Rate of CTL Escape during Acute and Chronic Phases of HIV Infection. <i>Journal of Virology</i> , 2011, 85, 10518-10528.	1.5	141
47	Killing of Targets by CD8+ T Cells in the Mouse Spleen Follows the Law of Mass Action. <i>PLoS ONE</i> , 2011, 6, e15959.	1.1	41
48	Persistence of viral infection despite similar killing efficacy of antiviral CD8+ T cells during acute and chronic phases of infection. <i>Virology</i> , 2010, 405, 193-200.	1.1	18
49	In Mice, Tuberculosis Progression Is Associated with Intensive Inflammatory Response and the Accumulation of Gr-1 <sup>dim</sup> Cells in the Lungs. <i>PLoS ONE</i> , 2010, 5, e10469.	1.1	69
50	Stochastic Models of Lymphocyte Proliferation and Death. <i>PLoS ONE</i> , 2010, 5, e12775.	1.1	52
51	Explicit Kinetic Heterogeneity: Mathematical Models for Interpretation of Deuterium Labeling of Heterogeneous Cell Populations. <i>PLoS Computational Biology</i> , 2010, 6, e1000666.	1.5	33
52	Transmission of Single HIV-1 Genomes and Dynamics of Early Immune Escape Revealed by Ultra-Deep Sequencing. <i>PLoS ONE</i> , 2010, 5, e12303.	1.1	259
53	The first T cell response to transmitted/founder virus contributes to the control of acute viremia in HIV-1 infection. <i>Journal of Experimental Medicine</i> , 2009, 206, 1253-1272.	4.2	562
54	Lymphocyte kinetics in health and disease. <i>Trends in Immunology</i> , 2009, 30, 182-189.	2.9	33

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55	Estimating In Vivo Death Rates of Targets due to CD8 T-Cell-Mediated Killing. <i>Journal of Virology</i> , 2008, 82, 11749-11757.	1.5	49
56	IL-2 Regulates Expansion of CD4+ T Cell Populations by Affecting Cell Death: Insights from Modeling CFSE Data. <i>Journal of Immunology</i> , 2007, 179, 950-957.	0.4	48
57	Dynamics of CD8+ T Cell Responses during Acute and Chronic Lymphocytic Choriomeningitis Virus Infection. <i>Journal of Immunology</i> , 2007, 179, 2944-2951.	0.4	60
58	Discriminating between Different Pathways of Memory CD8+ T Cell Differentiation. <i>Journal of Immunology</i> , 2007, 179, 5006-5013.	0.4	23
59	Do most lymphocytes in humans really reside in the gut?. <i>Trends in Immunology</i> , 2007, 28, 514-518.	2.9	187
60	IMPERFECT VACCINES AND THE EVOLUTION OF PATHOGENS CAUSING ACUTE INFECTIONS IN VERTEBRATES. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 957-969.	1.1	28
61	Estimating Lymphocyte Division and Death Rates from CFSE Data. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 1011-1031.	0.9	89
62	Estimating Costs and Benefits of CTL Escape Mutations in SIV/HIV Infection. <i>PLoS Computational Biology</i> , 2006, 2, e24.	1.5	59
63	How Does Cross-Reactive Stimulation Affect the Longevity of CD8+ T Cell Memory?. <i>PLoS Computational Biology</i> , 2006, 2, e55.	1.5	7
64	Imperfect vaccines and the evolution of pathogens causing acute infections in vertebrates. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 957-69.	1.1	13
65	The role of models in understanding CD8+ T-cell memory. <i>Nature Reviews Immunology</i> , 2005, 5, 101-111.	10.6	195
66	Quantifying cell turnover using CFSE data. <i>Journal of Immunological Methods</i> , 2005, 298, 183-200.	0.6	70
67	Pathology during acute infections: contributions of intracellular pathogens and the CTL response. <i>Biology Letters</i> , 2005, 1, 239-242.	1.0	7
68	The rescaling method for quantifying the turnover of cell populations. <i>Journal of Theoretical Biology</i> , 2003, 225, 275-283.	0.8	45
69	Trade-offs and the evolution of virulence of microparasites: do details matter?. <i>Theoretical Population Biology</i> , 2003, 64, 211-220.	0.5	55
70	The role of the cytotoxic T-lymphocyte response and virus cytopathogenicity in the virus decline during antiviral therapy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1513-1518.	1.2	5
71	Estimating the Instability Parameters of Plasmid-Bearing Cells. I. Chemostat Culture. <i>Journal of Theoretical Biology</i> , 2002, 219, 193-205.	0.8	28
72	WITHIN-HOST POPULATION DYNAMICS AND THE EVOLUTION OF MICROPARASITES IN A HETEROGENEOUS HOST POPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 213-223.	1.1	124