Vitaly V Ganusov

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The first T cell response to transmitted/founder virus contributes to the control of acute viremia in HIV-1 infection. Journal of Experimental Medicine, 2009, 206, 1253-1272. | 4.2 | 562 |
| 2 | CD4 T Cell-Derived IFN-Î ³ Plays a Minimal Role in Control of Pulmonary Mycobacterium tuberculosis Infection and Must Be Actively Repressed by PD-1 to Prevent Lethal Disease. PLoS Pathogens, 2016, 12, e1005667. | 2.1 | 280 |
| 3 | Transmission of Single HIV-1 Genomes and Dynamics of Early Immune Escape Revealed by Ultra-Deep Sequencing. PLoS ONE, 2010, 5, e12303. | 1.1 | 259 |
| 4 | The role of models in understanding CD8+ T-cell memory. Nature Reviews Immunology, 2005, 5, 101-111. | 10.6 | 195 |
| 5 | Do most lymphocytes in humans really reside in the gut?. Trends in Immunology, 2007, 28, 514-518. | 2.9 | 187 |
| 6 | Vertical T cell immunodominance and epitope entropy determine HIV-1 escape. Journal of Clinical Investigation, 2013, 123, 380-93. | 3.9 | 165 |
| 7 | Early Low-Titer Neutralizing Antibodies Impede HIV-1 Replication and Select for Virus Escape. PLoS Pathogens, 2012, 8, e1002721. | 2.1 | 159 |
| 8 | In vivo imaging of CD8 ⁺ T cell-mediated elimination of malaria liver stages. Proceedings of the United States of America, 2013, 110, 9090-9095. | 3.3 | 148 |
| 9 | 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. Journal of Virology, 2011, 85, 10518-10528. | 1.5 | 141 |
| 10 | WITHIN-HOST POPULATION DYNAMICS AND THE EVOLUTION OF MICROPARASITES IN A HETEROGENEOUS HOST POPULATION. Evolution; International Journal of Organic Evolution, 2002, 56, 213-223. | 1.1 | 124 |
| 11 | T follicular helper cells in human efferent lymph retain lymphoid characteristics. Journal of Clinical Investigation, 2019, 129, 3185-3200. | 3.9 | 116 |
| 12 | Estimating Lymphocyte Division and Death Rates from CFSE Data. Bulletin of Mathematical Biology, 2006, 68, 1011-1031. | 0.9 | 89 |
| 13 | Tracking HIV-1 recombination to resolve its contribution to HIV-1 evolution in natural infection. Nature Communications, 2018, 9, 1928. | 5.8 | 83 |
| 14 | Mathematical Modeling Reveals Kinetics of Lymphocyte Recirculation in the Whole Organism. PLoS Computational Biology, 2014, 10, e1003586. | 1.5 | 73 |
| 15 | Quantifying cell turnover using CFSE data. Journal of Immunological Methods, 2005, 298, 183-200. | 0.6 | 70 |
| 16 | In Mice, Tuberculosis Progression Is Associated with Intensive Inflammatory Response and the Accumulation of Gr-1dim Cells in the Lungs. PLoS ONE, 2010, 5, e10469. | 1.1 | 69 |
| 17 | Competition for Antigen between Th1 and Th2 Responses Determines the Timing of the Immune Response Switch during Mycobaterium avium Subspecies paratuberulosis Infection in Ruminants. PLoS Computational Biology, 2014, 10, e1003414. | 1.5 | 68 |
| 18 | Mtb-Specific CD27low CD4 T Cells as Markers of Lung Tissue Destruction during Pulmonary Tuberculosis in Humans. PLoS ONE, 2012, 7, e43733. | 1.1 | 64 |

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|----|--|-----|-----------|
| 19 | Severe Tuberculosis in Humans Correlates Best with Neutrophil Abundance and Lymphocyte Deficiency and Does Not Correlate with Antigen-Specific CD4 T-Cell Response. Frontiers in Immunology, 2017, 8, 963. | 2.2 | 63 |
| 20 | Ultra-low Dose Aerosol Infection of Mice with Mycobacterium tuberculosis More Closely Models Human Tuberculosis. Cell Host and Microbe, 2021, 29, 68-82.e5. | 5.1 | 62 |
| 21 | Dynamics of CD8+ T Cell Responses during Acute and Chronic Lymphocytic Choriomeningitis Virus Infection. Journal of Immunology, 2007, 179, 2944-2951. | 0.4 | 60 |
| 22 | Estimating Costs and Benefits of CTL Escape Mutations in SIV/HIV Infection. PLoS Computational Biology, 2006, 2, e24. | 1.5 | 59 |
| 23 | Cellular and population plasticity of helper CD4+ T cell responses. Frontiers in Physiology, 2013, 4, 206. | 1.3 | 59 |
| 24 | Trade-offs and the evolution of virulence of microparasites: do details matter?. Theoretical Population Biology, 2003, 64, 211-220. | 0.5 | 55 |
| 25 | Stochastic Models of Lymphocyte Proliferation and Death. PLoS ONE, 2010, 5, e12775. | 1.1 | 52 |
| 26 | Estimating In Vivo Death Rates of Targets due to CD8 T-Cell-Mediated Killing. Journal of Virology, 2008, 82, 11749-11757. | 1.5 | 49 |
| 27 | Experimental determination of the force of malaria infection reveals a non-linear relationship to mosquito sporozoite loads. PLoS Pathogens, 2020, 16, e1008181. | 2.1 | 49 |
| 28 | IL-2 Regulates Expansion of CD4+ T Cell Populations by Affecting Cell Death: Insights from Modeling CFSE Data. Journal of Immunology, 2007, 179, 950-957. | 0.4 | 48 |
| 29 | Strong Inference in Mathematical Modeling: A Method for Robust Science in the Twenty-First Century. Frontiers in Microbiology, 2016, 7, 1131. | 1.5 | 48 |
| 30 | The rescaling method for quantifying the turnover of cell populations. Journal of Theoretical Biology, 2003, 225, 275-283. | 0.8 | 45 |
| 31 | Killing of Targets by CD8+ T Cells in the Mouse Spleen Follows the Law of Mass Action. PLoS ONE, 2011, 6, e15959. | 1.1 | 41 |
| 32 | Mathematical modeling provides kinetic details of the human immune response to vaccination. Frontiers in Cellular and Infection Microbiology, 2014, 4, 177. | 1.8 | 39 |
| 33 | Mathematical modeling of escape of HIV from cytotoxic T lymphocyte responses. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P01010. | 0.9 | 38 |
| 34 | Lymphocyte kinetics in health and disease. Trends in Immunology, 2009, 30, 182-189. | 2.9 | 33 |
| 35 | Explicit Kinetic Heterogeneity: Mathematical Models for Interpretation of Deuterium Labeling of Heterogeneous Cell Populations. PLoS Computational Biology, 2010, 6, e1000666. | 1.5 | 33 |
| 36 | Estimating the Instability Parameters of Plasmid-Bearing Cells. I. Chemostat Culture. Journal of Theoretical Biology, 2002, 219, 193-205. | 0.8 | 28 |

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|----|--|-----|-----------|
| 37 | IMPERFECT VACCINES AND THE EVOLUTION OF PATHOGENS CAUSING ACUTE INFECTIONS IN VERTEBRATES. Evolution; International Journal of Organic Evolution, 2006, 60, 957-969. | 1.1 | 28 |
| 38 | Cutting Edge: IL-1R1 Mediates Host Resistance to <i>Mycobacterium tuberculosis</i> by <i>Trans</i> -Protection of Infected Cells. Journal of Immunology, 2018, 201, 1645-1650. | 0.4 | 28 |
| 39 | The Rate of CD4 T Cell Entry into the Lungs during Mycobacterium tuberculosis Infection Is Determined by Partial and Opposing Effects of Multiple Chemokine Receptors. Infection and Immunity, 2019, 87, . | 1.0 | 28 |
| 40 | Evaluating contribution of the cellular and humoral immune responses to the control of shedding of Mycobacterium avium spp. paratuberculosis in cattle. Veterinary Research, 2015, 46, 62. | 1.1 | 27 |
| 41 | Distinct Kinetics of Gag-Specific CD4+ and CD8+ T Cell Responses during Acute HIV-1 Infection. Journal of Immunology, 2012, 188, 2198-2206. | 0.4 | 24 |
| 42 | Discriminating between Different Pathways of Memory CD8+ T Cell Differentiation. Journal of Immunology, 2007, 179, 5006-5013. | 0.4 | 23 |
| 43 | Broad CTL Response in Early HIV Infection Drives Multiple Concurrent CTL Escapes. PLoS Computational Biology, 2015, 11, e1004492. | 1.5 | 21 |
| 44 | Persistence of viral infection despite similar killing efficacy of antiviral CD8+ T cells during acute and chronic phases of infection. Virology, 2010, 405, 193-200. | 1.1 | 18 |
| 45 | Clustering of Activated CD8 T Cells Around Malaria-Infected Hepatocytes Is Rapid and Is Driven by Antigen-Specific Cells. Frontiers in Immunology, 2019, 10, 2153. | 2.2 | 18 |
| 46 | A mechanistic model for bromodeoxyuridine dilution naturally explains labelling data of self-renewing T cell populations. Journal of the Royal Society Interface, 2013, 10, 20120617. | 1.5 | 17 |
| 47 | Simple Mathematical Models Do Not Accurately Predict Early SIV Dynamics. Viruses, 2015, 7, 1189-1217. | 1.5 | 16 |
| 48 | Quantifying Limits on Replication, Death, and Quiescence of Mycobacterium tuberculosis in Mice. Frontiers in Microbiology, 2016, 7, 862. | 1.5 | 13 |
| 49 | Imperfect vaccines and the evolution of pathogens causing acute infections in vertebrates. Evolution; International Journal of Organic Evolution, 2006, 60, 957-69. | 1.1 | 13 |
| 50 | Plasmodium Suppresses Expansion of T Cell Responses to Heterologous Infections. Journal of Immunology, 2015, 194, 697-708. | 0.4 | 10 |
| 51 | 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. Frontiers in Bioinformatics, 2022, 1, . | 1.0 | 10 |
| 52 | Liver Environment–Imposed Constraints Diversify Movement Strategies of Liver-Localized CD8 T Cells. Journal of Immunology, 2022, 208, 1292-1304. | 0.4 | 10 |
| 53 | Estimating Residence Times of Lymphocytes in Ovine Lymph Nodes. Frontiers in Immunology, 2019, 10, 1492. | 2.2 | 8 |
| 54 | Pathology during acute infections: contributions of intracellular pathogens and the CTL response. Biology Letters, 2005, 1, 239-242. | 1.0 | 7 |

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|----|--|-----|-----------|
| 55 | How Does Cross-Reactive Stimulation Affect the Longevity of CD8+ T Cell Memory?. PLoS Computational Biology, 2006, 2, e55. | 1.5 | 7 |
| 56 | Classification of T cell movement tracks allows for prediction of cell function. International Journal of Computational Biology and Drug Design, 2014, 7, 113. | 0.3 | 7 |
| 57 | Kinetics of HIV-Specific CTL Responses Plays a Minimal Role in Determining HIV Escape Dynamics. Frontiers in Immunology, 2018, 9, 140. | 2.2 | 7 |
| 58 | Impact of Oseltamivir Treatment on Influenza A and B Virus Dynamics in Human Volunteers. Frontiers in Microbiology, 2021, 12, 631211. | 1.5 | 7 |
| 59 | The role of the cytotoxic T–lymphocyte response and virus cytopathogenicity in the virus decline during antiviral therapy. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1513-1518. | 1.2 | 5 |
| 60 | Treatment timing shifts the benefits of short and long antibiotic treatment over infection. Evolution, Medicine and Public Health, 2020, 2020, 249-263. | 1.1 | 5 |
| 61 | Evolution of viral life-cycle in response to cytotoxic T lymphocyte-mediated immunity. Journal of Theoretical Biology, 2012, 310, 3-13. | 0.8 | 4 |
| 62 | Immunologic and Virologic Mechanisms for Partial Protection from Intravenous Challenge by an Integration-Defective SIV Vaccine. Viruses, 2017, 9, 135. | 1.5 | 3 |
| 63 | Time Intervals in Sequence Sampling, Not Data Modifications, Have a Major Impact on Estimates of HIV Escape Rates. Viruses, 2018, 10, 99. | 1.5 | 3 |
| 64 | Defining Kinetic Properties of HIV-Specific CD8+ T-Cell Responses in Acute Infection. Microorganisms, 2019, 7, 69. | 1.6 | 3 |
| 65 | Experimental and Mathematical Approaches to Quantify Recirculation Kinetics of Lymphocytes. , 2021, , 151-169. | | 3 |
| 66 | Mathematical Modeling Suggests Cooperation of Plant-Infecting Viruses. Viruses, 2022, 14, 741. | 1.5 | 2 |
| 67 | Editorial: Integrative Computational Systems Biology Approaches in Immunology and Medicine. Frontiers in Microbiology, 2019, 9, 3338. | 1.5 | 1 |
| 68 | Interactions with Asialo-Glycoprotein Receptors and Platelets Are Dispensable for CD8 ⁺ T Cell Localization in the Murine Liver. Journal of Immunology, 2022, 208, 2738-2748. | 0.4 | 1 |
| 69 | Title is missing!. , 2020, 16, e1008181. | | 0 |
| 70 | Title is missing!. , 2020, 16, e1008181. | | 0 |
| 71 | Title is missing!. , 2020, 16, e1008181. | | 0 |
| 72 | Title is missing!. , 2020, 16, e1008181. | | 0 |

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