Koen K A Van Rompay

List of Publications by Year
in descending order

78 papers	3,090 citations	185998 28 h-index	189595 50 g-index
90 all docs	90 docs citations	90 times ranked	5092 citing authors

#	Article	IF	Citations
1	An amplicon-based sequencing framework for accurately measuring intrahost virus diversity using PrimalSeq and iVar. Genome Biology, 2019, 20, 8.	3.8	712
2	Biological Effects of Short-Term or Prolonged Administration of 9-[2-(Phosphonomethoxy)Propyl]Adenine (Tenofovir) to Newborn and Infant Rhesus Macaques. Antimicrobial Agents and Chemotherapy, 2004, 48, 1469-1487.	1.4	132
3	Chronic Administration of Tenofovir to Rhesus Macaques from Infancy through Adulthood and Pregnancy: Summary of Pharmacokinetics and Biological and Virological Effects. Antimicrobial Agents and Chemotherapy, 2008, 52, 3144-3160.	1.4	114
4	Attenuated Poxvirus-Based Simian Immunodeficiency Virus (SIV) Vaccines Given in Infancy Partially Protect Infant and Juvenile Macaques Against Repeated Oral Challenge With Virulent SIV. Journal of Acquired Immune Deficiency Syndromes (1999), 2005, 38, 124-134.	0.9	104
5	Zika Virus Tissue and Blood Compartmentalization in Acute Infection of Rhesus Macaques. PLoS ONE, 2017, 12, e0171148.	1.1	102
6	Immunization of Newborn Rhesus Macaques with Simian Immunodeficiency Virus (SIV) Vaccines Prolongs Survival after Oral Challenge with Virulent SIVmac251. Journal of Virology, 2003, 77, 179-190.	1.5	87
7	Prophylactic and Therapeutic Benefits of Short-Term 9-[2-(R)-(Phosphonomethoxy)Propyl]Adenine (PMPA) Administration to Newborn Macaques following Oral Inoculation with Simian Immunodeficiency Virus with Reduced Susceptibility to PMPA. Journal of Virology, 2000, 74, 1767-1774.	1.5	73
8	Evaluation of Passively Transferred, Nonneutralizing Antibody-Dependent Cellular Cytotoxicity-Mediating IgG in Protection of Neonatal Rhesus Macaques against Oral SIVmac251 Challenge. Journal of Immunology, 2006, 177, 4028-4036.	0.4	73
9	Intraamniotic Zika virus inoculation of pregnant rhesus macaques produces fetal neurologic disease. Nature Communications, 2018, 9, 2414.	5.8	66
10	SARS-CoV-2 induces robust germinal center CD4 T follicular helper cell responses in rhesus macaques. Nature Communications, 2021, 12, 541.	5.8	66
11	Rapid Virus Dissemination in Infant Macaques after Oral Simian Immunodeficiency Virus Exposure in the Presence of Local Innate Immune Responses. Journal of Virology, 2006, 80, 6357-6367.	1.5	61
12	A Combination of Two Human Monoclonal Antibodies Prevents Zika Virus Escape Mutations in Non-human Primates. Cell Reports, 2018, 25, 1385-1394.e7.	2.9	61
13	Early Short-Term 9-[2-(R)-(Phosphonomethoxy)Propyl]Adenine Treatment Favorably Alters the Subsequent Disease Course in Simian Immunodeficiency Virus-Infected Newborn Rhesus Macaques. Journal of Virology, 1999, 73, 2947-2955.	1.5	60
14	Virulence and Reduced Fitness of Simian Immunodeficiency Virus with the M184V Mutation in Reverse Transcriptase. Journal of Virology, 2002, 76, 6083-6092.	1.5	53
15	Evaluation of Oral Tenofovir Disoproxil Fumarate and Topical Tenofovir GS-7340 to Protect Infant Macaques Against Repeated Oral Challenges With Virulent Simian Immunodeficiency Virus. Journal of Acquired Immune Deficiency Syndromes (1999), 2006, 43, 6-14.	0.9	52
16	Evaluation of antiretrovirals in animal models of HIV infection. Antiviral Research, 2010, 85, 159-175.	1.9	52
17	Empowering the people: Development of an HIV peer education model for low literacy rural communities in India. Human Resources for Health, 2008, 6, 6.	1.1	51
18	CD8 + -Cell-Mediated Suppression of Virulent Simian Immunodeficiency Virus during Tenofovir Treatment. Journal of Virology, 2004, 78, 5324-5337.	1.5	49

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19	Sequential emergence and clinical implications of viral mutants with K70E and K65R mutation in reverse transcriptase during prolonged tenofovir monotherapy in rhesus macaques with chronic RT-SHIV infection. Retrovirology, 2007, 4, 25.	0.9	49
20	The Use of Nonhuman Primate Models of HIV Infection for the Evaluation of Antiviral Strategies. AIDS Research and Human Retroviruses, 2012, 28, 16-35.	0.5	47
21	9-[2-(Phosphonomethoxy)propyl]adenine (PMPA) Therapy Prolongs Survival of Infant Macaques Inoculated with Simian Immunodeficiency Virus with Reduced Susceptibility to PMPA. Antimicrobial Agents and Chemotherapy, 1999, 43, 802-812.	1.4	45
22	The Clinical Benefits of Tenofovir for Simian Immunodeficiency Virus???Infected Macaques Are Larger Than Predicted by its Effects on Standard Viral and Immunologic Parameters. Journal of Acquired Immune Deficiency Syndromes (1999), 2004, 36, 900-914.	0.9	43
23	Topical Administration of Lowâ€Dose Tenofovir Disoproxil Fumarate to Protect Infant Macaques against Multiple Oral Exposures of Low Doses of Simian Immunodeficiency Virus. Journal of Infectious Diseases, 2002, 186, 1508-1513.	1.9	42
24	Risk of Zika microcephaly correlates with features of maternal antibodies. Journal of Experimental Medicine, 2019, 216, 2302-2315.	4.2	41
25	Partial efficacy of a VSV-SIV/MVA-SIV vaccine regimen against oral SIV challenge in infant macaques. Vaccine, 2011, 29, 3124-3137.	1.7	40
26	Adjuvant-Dependent Enhancement of HIV Env-Specific Antibody Responses in Infant Rhesus Macaques. Journal of Virology, 2018, 92, .	1.5	39
27	Balancing Trained Immunity with Persistent Immune Activation and the Risk of Simian Immunodeficiency Virus Infection in Infant Macaques Vaccinated with Attenuated Mycobacterium tuberculosis or Mycobacterium bovis BCG Vaccine. Vaccine Journal, 2017, 24, .	3.2	36
28	SIV Replication in the Infected Rhesus Macaque Is Limited by the Size of the Preexisting T _H 17 Cell Compartment. Science Translational Medicine, 2012, 4, 136ra69.	5.8	34
29	SARS-CoV-2 vaccines elicit durable immune responses in infant rhesus macaques. Science Immunology, 2021, 6, .	5.6	34
30	DNA vaccination before conception protects Zika virusâ€“exposed pregnant macaques against prolonged viremia and improves fetal outcomes. Science Translational Medicine, 2019, 11, .	5.8	31
31	Vaccine-Elicited Mucosal and Systemic Antibody Responses Are Associated with Reduced Simian Immunodeficiency Viremia in Infant Rhesus Macaques. Journal of Virology, 2016, 90, 7285-7302.	1.5	30
32	Pharmacokinetics of Tenofovir in Breast Milk of Lactating Rhesus Macaques. Antimicrobial Agents and Chemotherapy, 2005, 49, 2093-2094.	1.4	29
33	Impact of Poxvirus Vector Priming, Protein Coadministration, and Vaccine Intervals on HIV gp120 Vaccine-Elicited Antibody Magnitude and Function in Infant Macaques. Vaccine Journal, 2017, 24, .	3.2	28
34	Immunogenicity of viral vector, prime-boost SIV vaccine regimens in infant rhesus macaques: Attenuated vesicular stomatitis virus (VSV) and modified vaccinia Ankara (MVA) recombinant SIV vaccines compared to live-attenuated SIV. Vaccine, 2010, 28, 1481-1492.	1.7	26
35	Virus-Induced Immunosuppression Is Linked to Rapidly Fatal Disease in Infant Rhesus Macaques Infected with Simian Immunodeficiency Virus. Pediatric Research, 1996, 39, 630-635.	1.1	26
36	Tackling HIV and AIDS: contributions by non-human primate models. Lab Animal, 2017, 46, 259-270.	0.2	25

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37	A combination of two human monoclonal antibodies limits fetal damage by Zika virus in macaques. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7981-7989.	3.3	24
38	Genomic insights into the host specific adaptation of the Pneumocystis genus. Communications Biology, 2021, 4, 305.	2.0	23
39	Antiretroviral drug studies in nonhuman primates: a valid animal model for innovative drug efficacy and pathogenesis experiments. AIDS Reviews, 2005, 7, 67-83.	0.5	22
40	Neonatal Rhesus Macaques Have Distinct Immune Cell Transcriptional Profiles following HIV Envelope Immunization. Cell Reports, 2020, 30, 1553-1569.e6.	2.9	21
41	A neonatal oral Mycobacterium tuberculosis-SIV prime/intramuscular MVA-SIV boost combination vaccine induces both SIV and Mtb-specific immune responses in infant macaques. Trials in Vaccinology, 2013, 2, 53-63.	1.2	19
42	A Vaccine against CCR5 Protects a Subset of Macaques upon Intravaginal Challenge with Simian Immunodeficiency Virus SIVmac251. Journal of Virology, 2014, 88, 2011-2024.	1.5	18
43	Early Sites of Virus Replication After Oral SIV_{mac251} Infection of Infant Macaques: Implications for Pathogenesis. AIDS Research and Human Retroviruses, 2018, 34, 286-299.	0.5	18
44	Coadministration of CH31 Broadly Neutralizing Antibody Does Not Affect Development of Vaccine-Induced Anti-HIV-1 Envelope Antibody Responses in Infant Rhesus Macaques. Journal of Virology, 2019, 93, .	1.5	18
45	Maternal HIV-1 Env Vaccination for Systemic and Breast Milk Immunity To Prevent Oral SHIV Acquisition in Infant Macaques. MSphere, 2018, 3, .	1.3	17
46	Early treatment with a combination of two potent neutralizing antibodies improves clinical outcomes and reduces virus replication and lung inflammation in SARS-CoV-2 infected macaques. PLoS Pathogens, 2021, 17, e1009688.	2.1	16
47	Prolonged tenofovir treatment of macaques infected with K65R reverse transcriptase mutants of SIV results in the development of antiviral immune responses that control virus replication after drug withdrawal. Retrovirology, 2012, 9, 57.	0.9	15
48	Simian-Human Immunodeficiency Virus SHIV.CH505-Infected Infant and Adult Rhesus Macaques Exhibit Similar Env-Specific Antibody Kinetics, despite Distinct T-Follicular Helper and Germinal Center B Cell Landscapes. Journal of Virology, 2019, 93, .	1.5	15
49	SARS-CoV-2 Infection of Rhesus Macaques Treated Early with Human COVID-19 Convalescent Plasma. Microbiology Spectrum, 2021, 9, e0139721.	1.2	15
50	Structured Treatment Interruptions with Tenofovir Monotherapy for Simian Immunodeficiency Virus-Infected Newborn Macaques. Journal of Virology, 2006, 80, 6399-6410.	1.5	14
51	Analytical Treatment Interruption after Short-Term Antiretroviral Therapy in a Postnatally Simian-Human Immunodeficiency Virus-Infected Infant Rhesus Macaque Model. MBio, 2019, 10, .	1.8	14
52	Postnatal Zika virus infection of nonhuman primate infants born to mothers infected with homologous Brazilian Zika virus. Scientific Reports, 2019, 9, 12802.	1.6	14
53	A simultaneous oral and intramuscular prime/sublingual boost with a DNA/Modified Vaccinia Ankara viral vectorâ€based vaccine induces simian immunodeficiency virusâ€specific systemic and mucosal immune responses in juvenile rhesus macaques. Journal of Medical Primatology, 2018, 47, 288-297.	0.3	13
54	SARSâ€CoVâ€2 surveillance for a nonâ€human primate breeding research facility. Journal of Medical Primatology, 2020, 49, 322-331.	0.3	13

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55	Tenofovir primes rhesus macaque cells in vitro for enhanced interleukin-12 secretion. Antiviral Research, 2004, 63, 133-138.	1.9	12
56	Multiscale analysis for patterns of Zika virus genotype emergence, spread, and consequence. PLoS ONE, 2019, 14, e0225699.	1.1	12
57	Oral Coadministration of an Intramuscular DNA/Modified Vaccinia Ankara Vaccine for Simian Immunodeficiency Virus Is Associated with Better Control of Infection in Orally Exposed Infant Macaques. AIDS Research and Human Retroviruses, 2019, 35, 310-325.	0.5	12
58	Dolutegravir Monotherapy of Simian Immunodeficiency Virus-Infected Macaques Selects for Several Patterns of Resistance Mutations with Variable Virological Outcomes. Journal of Virology, 2019, 93, .	1.5	11
59	Diversity and Complexity of the Large Surface Protein Family in the Compacted Genomes of MultiplePneumocystisSpecies. MBio, 2020, 11, .	1.8	11
60	Compared to Subcutaneous Tenofovir, Oral Tenofovir Disoproxyl Fumarate Administration Preferentially Concentrates the Drug into Gut-Associated Lymphoid Cells in Simian Immunodeficiency Virus-Infected Macaques. Antimicrobial Agents and Chemotherapy, 2012, 56, 4980-4984.	1.4	10
61	Two Sides of a Coin: a Zika Virus Mutation Selected in Pregnant Rhesus Macaques Promotes Fetal Infection in Mice but at a Cost of Reduced Fitness in Nonpregnant Macaques and Diminished Transmissibility by Vectors. Journal of Virology, 2020, 94, .	1.5	10
62	Monoclonal antibodies protect aged rhesus macaques from SARS-CoV-2-induced immune activation and neuroinflammation. Cell Reports, 2021, 37, 109942.	2.9	9
63	Role of CD8+ cells in controlling replication of nonpathogenic Simian Immunodeficiency Virus SIVmac1A11. Virology Journal, 2006, 3, 22.	1.4	8
64	Hippocampal Neuronal Loss in Infant Macaques Orally Infected with Virulent Simian Immunodeficiency Virus (SIV). Brain Sciences, 2017, 7, 40.	1.1	8
65	Early post-infection treatment of SARS-CoV-2 infected macaques with human convalescent plasma with high neutralizing activity had no antiviral effects but moderately reduced lung inflammation. PLoS Pathogens, 2022, 18, e1009925.	2.1	8
66	Neuroanatomical abnormalities in a nonhuman primate model of congenital Zika virus infection. ELife, 2022, 11, .	2.8	7
67	Functional Perturbation of Mucosal Group 3 Innate Lymphoid and Natural Killer Cells in Simian-Human Immunodeficiency Virus/Simian Immunodeficiency Virus-Infected Infant Rhesus Macaques. Journal of Virology, 2020, 94, .	1.5	6
68	HIV Env-Specific IgG Antibodies Induced by Vaccination of Neonatal Rhesus Macaques Persist and Can Be Augmented by a Late Booster Immunization in Infancy. MSphere, 2020, 5, .	1.3	6
69	Animal Models of HIV Transmission Through Breastfeeding and Pediatric HIV Infection. Advances in Experimental Medicine and Biology, 2012, 743, 89-108.	0.8	5
70	Harnessing early life immunity to develop a pediatric HIV vaccine that can protect through adolescence. PLoS Pathogens, 2020, 16, e1008983.	2.1	3
71	Motor-biking through rural India on an HIV mission. Aids, 2004, 18, N13-N16.	1.0	2
72	Insertion as a Resistance Mechanism Against Integrase Inhibitors in Several Retroviruses. Clinical Infectious Diseases, 2019, 69, 1460-1461.	2.9	2

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73	Vaccine-Induced, High-Magnitude HIV Env-Specific Antibodies with Fc-Mediated Effector Functions Are Insufficient to Protect Infant Rhesus Macaques against Oral SHIV Infection. MSphere, 2022, 7, e0083921.	1.3	2
74	Zika virus persistence in the male macaque reproductive tract. PLoS Neglected Tropical Diseases, 2022, 16, e0010566.	1.3	2
75	Different adjuvanted pediatric HIV envelope vaccines induced distinct plasma antibody responses despite similar B cell receptor repertoires in infant rhesus macaques. PLoS ONE, 2021, 16, e0256885.	1.1	1
76	Early Post-Vaccination Gene Signatures Correlate With the Magnitude and Function of Vaccine-Induced HIV Envelope-Specific Plasma Antibodies in Infant Rhesus Macaques. Frontiers in Immunology, 2022, 13, 840976.	2.2	1
77	Developing and validating SARSâ€CoVâ€2 assays for nonhuman primate surveillance. Journal of Medical Primatology, 0, , .	0.3	1
78	<scp>Multiâ€site</scp> proficiency testing for validation and standardization of assays to detect specific pathogenâ€free viruses, coronaviruses, and other agents in nonhuman primates. Journal of Medical Primatology, 2022, 51, 234-245.	0.3	0