Roger Le Grand

List of Publications by Year
in descending order

112 papers	4,442 citations	136740 32 h-index	128067 60 g-index
126 all docs	126 docs citations	126 times ranked	8155 citing authors

#	Article	IF	Citations
1	Animal models for COVID-19. Nature, 2020, 586, 509-515.	13.7	705
2	Chikungunya disease in nonhuman primates involves long-term viral persistence in macrophages. Journal of Clinical Investigation, 2010, 120, 894-906.	3.9	447
3	Hydroxychloroquine use against SARS-CoV-2 infection in non-human primates. Nature, 2020, 585, 584-587.	13.7	287
4	Persistence and activation of malaria hypnozoites in long-term primary hepatocyte cultures. Nature Medicine, 2014, 20, 307-312.	15.2	160
5	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. Cell, 2021, 184, 1188-1200.e19.	13.5	154
6	Protective effect of vaginal application of neutralizing and nonneutralizing inhibitory antibodies against vaginal SHIV challenge in macaques. Mucosal Immunology, 2014, 7, 46-56.	2.7	152
7	Paradoxical Effect of Chloroquine Treatment in Enhancing Chikungunya Virus Infection. Viruses, 2018, 10, 268.	1.5	126
8	Towards an In Vitro Model of Plasmodium Hypnozoites Suitable for Drug Discovery. PLoS ONE, 2011, 6, e18162.	1.1	121
9	SARS-CoV-2 infection in nonhuman primates alters the composition and functional activity of the gut microbiota. Gut Microbes, 2021, 13, 1-19.	4.3	75
10	The Integrase Inhibitors Dolutegravir and Raltegravir Exert Proadipogenic and Profibrotic Effects and Induce Insulin Resistance in Human/Simian Adipose Tissue and Human Adipocytes. Clinical Infectious Diseases, 2020, 71, e549-e560.	2.9	72
11	Capsid-specific removal of circulating antibodies to adeno-associated virus vectors. Scientific Reports, 2020, 10, 864.	1.6	72
12	Tissue-Specific B-Cell Dysfunction and Generalized Memory B-Cell Loss during Acute SIV Infection. PLoS ONE, 2009, 4, e5966.	1.1	65
13	Plasmacytoid Dendritic Cell Dynamics Tune Interferon-Alfa Production in SIV-Infected Cynomolgus Macaques. PLoS Pathogens, 2014, 10, e1003915.	2.1	63
14	Cross-reactive antibodies after SARS-CoV-2 infection and vaccination. ELife, 2021, 10, .	2.8	63
15	Dynamics of T-Cell Responses and Memory T Cells during Primary Simian Immunodeficiency Virus Infection in Cynomolgus Macaques. Journal of Virology, 2007, 81, 13456-13468.	1.5	62
16	Optimize Prime/Boost Vaccine Strategies: Trained Immunity as a New Player in the Game. Frontiers in Immunology, 2021, 12, 612747.	2.2	62
17	An Animal Model for Antilentiviral Therapy: Effect of Zidovudine on Viral Load during Acute Infection after Exposure of Macaques to Simian Immunodeficiency Virus. AIDS Research and Human Retroviruses, 1994, 10, 1279-1287.	0.5	56
18	C-Type Lectin-like Receptor LOX-1 Promotes Dendritic Cell-Mediated Class-Switched B Cell Responses. Immunity, 2014, 41, 592-604.	6.6	55

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19	Innate Immune Responses and Rapid Control of Inflammation in African Green Monkeys Treated or Not with Interferon-Alpha during Primary SIVagm Infection. PLoS Pathogens, 2014, 10, e1004241.	2.1	54
20	An AAV-based, room-temperature-stable, single-dose COVID-19 vaccine provides durable immunogenicity and protection in non-human primates. Cell Host and Microbe, 2021, 29, 1437-1453.e8.	5.1	53
21	Rituximab Impairs B Cell Response But Not T Cell Response to <scp>COVID</scp>â€19 Vaccine in Autoimmune Diseases. Arthritis and Rheumatology, 2022, 74, 927-933.	2.9	52
22	Dynamics of viral replication in blood and lymphoid tissues during SIVmac251 infection of macaques. Retrovirology, 2009, 6, 106.	0.9	50
23	Semen CD4+ T Cells and Macrophages Are Productively Infected at All Stages of SIV infection in Macaques. PLoS Pathogens, 2013, 9, e1003810.	2.1	50
24	Electroporation as a vaccine delivery system and a natural adjuvant to intradermal administration of plasmid DNA in macaques. Scientific Reports, 2017, 7, 4122.	1.6	49
25	Persistent Immune Responses Induced by a Human Immunodeficiency Virus DNA Vaccine Delivered in Association with Electroporation in the Skin of Nonhuman Primates. Human Gene Therapy, 2009, 20, 1291-1307.	1.4	48
26	Detection of Simian Immunodeficiency Virus in Semen, Urethra, and Male Reproductive Organs during Efficient Highly Active Antiretroviral Therapy. Journal of Virology, 2015, 89, 5772-5787.	1.5	45
27	Macrophage- and Neutrophil-Derived TNF-Î± Instructs Skin Langerhans Cells To Prime Antiviral Immune Responses. Journal of Immunology, 2014, 193, 2416-2426.	0.4	43
28	Emerging preclinical evidence does not support broad use of hydroxychloroquine in COVID-19 patients. Nature Communications, 2020, 11, 4253.	5.8	43
29	Vaccine-Induced Linear Epitope-Specific Antibodies to Simian Immunodeficiency Virus SIVmac239 Envelope Are Distinct from Those Induced to the Human Immunodeficiency Virus Type 1 Envelope in Nonhuman Primates. Journal of Virology, 2015, 89, 8643-8650.	1.5	42
30	SARS-CoV-2 viral dynamics in non-human primates. PLoS Computational Biology, 2021, 17, e1008785.	1.5	41
31	Default in plasma and intestinal IgA responses during acute infection by simian immunodeficiency virus. Retrovirology, 2012, 9, 43.	0.9	40
32	Vaccine Inoculation Route Modulates Early Immunity and Consequently Antigen-Specific Immune Response. Frontiers in Immunology, 2021, 12, 645210.	2.2	38
33	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models. Nature Communications, 2021, 12, 6097.	5.8	38
34	Pre-clinical development of a combination microbicide vaginal ring containing dapivirine and darunavir. Journal of Antimicrobial Chemotherapy, 2014, 69, 2477-2488.	1.3	37
35	DC Subsets Regulate Humoral Immune Responses by Supporting the Differentiation of Distinct Tfh Cells. Frontiers in Immunology, 2019, 10, 1134.	2.2	37
36	Prime and Boost Vaccination Elicit a Distinct Innate Myeloid Cell Immune Response. Scientific Reports, 2018, 8, 3087.	1.6	35

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37	In depth comparative phenotyping of blood innate myeloid leukocytes from healthy humans and macaques using mass cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 969-982.	1.1	29
38	Identification of Vaccine-Altered Circulating B Cell Phenotypes Using Mass Cytometry and a Two-Step Clustering Analysis. Journal of Immunology, 2016, 196, 4814-4831.	0.4	28
39	Methotrexate and BAFF interaction prevents immunization against TNF inhibitors. Annals of the Rheumatic Diseases, 2018, 77, 1463-1470.	0.5	25
40	Predictive Markers of Immunogenicity and Efficacy for Human Vaccines. Vaccines, 2021, 9, 579.	2.1	25
41	Dynamics of Vaginal and Rectal Microbiota Over Several Menstrual Cycles in Female Cynomolgus Macaques. Frontiers in Cellular and Infection Microbiology, 2019, 9, 188.	1.8	24
42	Innate and secondary humoral responses are improved by increasing the time between MVA vaccine immunizations. Npj Vaccines, 2020, 5, 24.	2.9	24
43	SIV-induced terminally differentiated adaptive NK cells in lymph nodes associated with enhanced MHC-E restricted activity. Nature Communications, 2021, 12, 1282.	5.8	24
44	Response to COVID-19 mRNA vaccination in multiple myeloma is conserved but impaired compared to controls. Journal of Hematology and Oncology, 2021, 14, 166.	6.9	24
45	FOXO1 transcription factor plays a key role in T cellâ€"HIV-1 interaction. PLoS Pathogens, 2019, 15, e1007669.	2.1	23
46	Targeting SARS-CoV-2 receptor-binding domain to cells expressing CD40 improves protection to infection in convalescent macaques. Nature Communications, 2021, 12, 5215.	5.8	22
47	Long-Term Control of Simian Immunodeficiency Virus (SIV) in Cynomolgus Macaques Not Associated with Efficient SIV-Specific CD8⁺T-Cell Responses. Journal of Virology, 2015, 89, 3542-3556.	1.5	21
48	<scp>CD</scp>34â€derived dendritic cells transfected ex vivo with <scp>HIV</scp>â€<scp>G</scp>ag m<scp>RNA</scp> induce polyfunctional <scp>T</scp>â€cell responses in nonhuman primates. European Journal of Immunology, 2012, 42, 2019-2030.	1.6	20
49	Differential activity of methylene blue against erythrocytic and hepatic stages of Plasmodium. Malaria Journal, 2018, 17, 143.	0.8	20
50	Seminal Simian Immunodeficiency Virus in Chronically Infected Cynomolgus Macaques Is Dominated by Virus Originating from Multiple Genital Organs. Journal of Virology, 2018, 92, .	1.5	20
51	NK cell immune responses differ after prime and boost vaccination. Journal of Leukocyte Biology, 2019, 105, 1055-1073.	1.5	20
52	Delivering HIV Gagp24 to DCIR Induces Strong Antibody Responses In Vivo. PLoS ONE, 2015, 10, e0135513.	1.1	20
53	Impact of ring size and drug loading on the pharmacokinetics of a combination dapivirine-darunavir vaginal ring in cynomolgus macaques. International Journal of Pharmaceutics, 2018, 550, 300-308.	2.6	18
54	Intradermal injection of an antiâ€Langerinâ€HIVGag fusion vaccine targets epidermal Langerhans cells in nonhuman primates and can be tracked in vivo. European Journal of Immunology, 2016, 46, 689-700.	1.6	17

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55	Activation of Toll-Like Receptors Differentially Modulates Inflammation in the Human Reproductive Tract: Preliminary Findings. Frontiers in Immunology, 2020, 11, 1655.	2.2	17
56	Non-human primate models of human respiratory infections. Molecular Immunology, 2021, 135, 147-164.	1.0	17
57	Combined treatment of molnupiravir and favipiravir against SARS-CoV-2 infection: OneÂ+Âzero equals two?. EBioMedicine, 2021, 74, 103663.	2.7	16
58	Identification of skin immune cells in non-human primates. Journal of Immunological Methods, 2015, 426, 42-49.	0.6	15
59	Evidence That SARS-CoV-2 Induces Lung Cell Senescence: Potential Impact on COVID-19 Lung Disease. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 107-111.	1.4	14
60	A third SARS-CoV-2 spike vaccination improves neutralization of variants-of-concern. Npj Vaccines, 2021, 6, 146.	2.9	14
61	Effectiveness of CHIKV vaccine VLA1553 demonstrated by passive transfer of human sera. JCI Insight, 2022, 7, .	2.3	14
62	OMIPâ€016: Characterization of antigenâ€responsive macaque and human Tâ€cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 182-184.	1.1	13
63	Immunogenicity of stabilized HIV-1 Env trimers delivered by self-amplifying mRNA. Molecular Therapy - Nucleic Acids, 2021, 25, 483-493.	2.3	13
64	Modified Vaccinia Virus Ankara Vector Induces Specific Cellular and Humoral Responses in the Female Reproductive Tract, the Main HIV Portal of Entry. Journal of Immunology, 2017, 199, 1923-1932.	0.4	12
65	Mass Cytometry Reveals the Immaturity of Circulating Neutrophils during SIV Infection. Journal of Innate Immunity, 2020, 12, 170-181.	1.8	12
66	Optimal Maturation of the SIV-Specific CD8+ T Cell Response after Primary Infection Is Associated with Natural Control of SIV: ANRS SIC Study. Cell Reports, 2020, 32, 108174.	2.9	12
67	Non-human Primate Determinants of Natural Killer Cells in Tissues at Steady-State and During Simian Immunodeficiency Virus Infection. Frontiers in Immunology, 2020, 11, 2134.	2.2	11
68	Innate Molecular and Cellular Signature in the Skin Preceding Long-Lasting T Cell Responses after Electroporated DNA Vaccination. Journal of Immunology, 2020, 204, 3375-3388.	0.4	11
69	Medical imaging of pulmonary disease in SARS-CoV-2-exposed non-human primates. Trends in Molecular Medicine, 2022, 28, 123-142.	3.5	10
70	In vivo imaging of bacterial colonization of the lower respiratory tract in a baboon model of Bordetella pertussis infection and transmission. Scientific Reports, 2018, 8, 12297.	1.6	9
71	Analysis and annotation of DNA methylation in two nonhuman primate species using the Infinium Human Methylation 450K and EPIC BeadChips. Epigenomics, 2021, 13, 169-186.	1.0	9
72	NK-B cell cross talk induces CXCR5 expression on natural killer cells. IScience, 2021, 24, 103109.	1.9	9

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73	Local Innate Markers and Vaginal Microbiota Composition Are Influenced by Hormonal Cycle Phases. Frontiers in Immunology, 2022, 13, 841723.	2.2	9
74	HIV specific responses induced in nonhuman primates with ANRS HIV-Lipo-5 vaccine combined with rMVA-HIV prime or boost immunizations. Vaccine, 2015, 33, 2354-2359.	1.7	8
75	Fibered Confocal Fluorescence Microscopy for the Noninvasive Imaging of Langerhans Cells in Macaques. Contrast Media and Molecular Imaging, 2017, 2017, 1-8.	0.4	8
76	The importance of semen leukocytes in HIV-1 transmission and the development of prevention strategies. Human Vaccines and Immunotherapeutics, 2020, 16, 2018-2032.	1.4	8
77	Role of NKG2a/c+CD8+ TÂcells in pathogenic versus non-pathogenic SIV infections. IScience, 2021, 24, 102314.	1.9	8
78	Both Systemic and Intra-articular Immunization with Citrullinated Peptides Are Needed to Induce Arthritis in the Macaque. Frontiers in Immunology, 2017, 8, 1816.	2.2	7
79	Molecular and Cellular Dynamics in the Skin, the Lymph Nodes, and the Blood of the Immune Response to Intradermal Injection of Modified Vaccinia Ankara Vaccine. Frontiers in Immunology, 2018, 9, 870.	2.2	7
80	Neutralizing Antibody-Based Prevention of Cell-Associated HIV-1 Infection. Viruses, 2018, 10, 333.	1.5	7
81	Chloroquine Potentiates Primaquine Activity against Active and Latent Hepatic Plasmodia Ex Vivo : Potentials and Pitfalls. Antimicrobial Agents and Chemotherapy, 2020, 65, .	1.4	7
82	Innate and Adaptive Anti-SIV Responses in Macaque Semen: Implications for Infectivity and Risk of Transmission. Frontiers in Immunology, 2020, 11, 850.	2.2	7
83	Expansion of Immature Neutrophils During SIV Infection Is Associated With Their Capacity to Modulate T-Cell Function. Frontiers in Immunology, 2022, 13, 781356.	2.2	7
84	Detection of SARS-CoV-2 in subcutaneous fat but not visceral fat, and the disruption of fat lymphocyte homeostasis in both fat tissues in the macaque. Communications Biology, 2022, 5, .	2.0	7
85	Modelling the response to vaccine in non-human primates to define SARS-CoV-2 mechanistic correlates of protection. ELife, 0, 11, .	2.8	7
86	Impact of BAFF Blockade on Inflammation, Germinal Center Reaction and Effector B-Cells During Acute SIV Infection. Frontiers in Immunology, 2020, 11, 252.	2.2	6
87	Immunization with synthetic SARS-CoV-2 S glycoprotein virus-like particles protects macaques from infection. Cell Reports Medicine, 2022, 3, 100528.	3.3	6
88	Broadly neutralizing antibodies potently inhibit cell-to-cell transmission of semen leukocyte-derived SHIV162P3. EBioMedicine, 2020, 57, 102842.	2.7	5
89	Leukocytospermia induces intraepithelial recruitment of dendritic cells and increases SIV replication in colorectal tissue explants. Communications Biology, 2021, 4, 861.	2.0	5
90	Electroporation-Mediated Intradermal Delivery of DNA Vaccines in Nonhuman Primates. Methods in Molecular Biology, 2014, 1121, 309-313.	0.4	5

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91	Whole genome sequencing in the search for genes associated with the control of SIV infection in the Mauritian macaque model. Scientific Reports, 2018, 8, 7131.	1.6	4
92	A single lentivector DNA based immunization contains a late heterologous SIVmac251 mucosal challenge infection. Vaccine, 2020, 38, 3729-3739.	1.7	4
93	Intranasal inoculation with Bordetella pertussis confers protection without inducing classical whooping cough in baboons. Current Research in Microbial Sciences, 2021, 2, 100072.	1.4	4
94	Computed tomography and [18F]-FDG PET imaging provide additional readouts for COVID-19 pathogenesis and therapies evaluation in non-human primates. IScience, 2022, 25, 104101.	1.9	4
95	Identification of CX3CR1+ mononuclear phagocyte subsets involved in HIV-1 and SIV colorectal transmission. IScience, 2022, 25, 104346.	1.9	4
96	Cynomolgus macaque IL37 polymorphism and control of SIV infection. Scientific Reports, 2019, 9, 7981.	1.6	3
97	Enhanced Transduction of Macaca fascicularis Hematopoietic Cells with Chimeric Lentiviral Vectors. Human Gene Therapy, 2019, 30, 1306-1323.	1.4	3
98	Distinct Features of Germinal Center Reactions in Macaques Infected by SIV or Vaccinated with a T-Dependent Model Antigen. Viruses, 2021, 13, 263.	1.5	3
99	The Route of Vaccine Administration Determines Whether Blood Neutrophils Undergo Long-Term Phenotypic Modifications. Frontiers in Immunology, 2021, 12, 784813.	2.2	3
100	Validation of the Performance of A1HPV6, a Triage Blood Test for the Early Diagnosis and Prognosis of SARS-CoV-2 Infection. , 2022, 1, 393-402.		3
101	A Case Study to Dissect Immunity to SARS-CoV-2 in a Neonate Nonhuman Primate Model. Frontiers in Immunology, 2022, 13, .	2.2	3
102	Vaccine Inoculation Route Modulates Early Immunity and Consequently Antigen-Specific Immune Response. SSRN Electronic Journal, 0, , .	0.4	2
103	A recombinant measles virus vaccine strongly reduces SHIV viremia and virus reservoir establishment in macaques. Npj Vaccines, 2021, 6, 123.	2.9	2
104	Human lymph node immune dynamics as driver of vaccine efficacy: an understudied aspect of immune responses. Expert Review of Vaccines, 2022, 21, 633-644.	2.0	2
105	Isotopic Radiolabeling of the Antiretroviral Drug [18F]Dolutegravir for Pharmacokinetic PET Imaging. Pharmaceuticals, 2022, 15, 587.	1.7	2
106	Durable immunogenicity, adaptation to emerging variants, and low-dose efficacy of an AAV-based COVID-19 vaccine platform in macaques. Molecular Therapy, 2022, 30, 2952-2967.	3.7	2
107	Seminal Plasma Exposures Strengthen Vaccine Responses in the Female Reproductive Tract Mucosae. Frontiers in Immunology, 2019, 10, 430.	2.2	1
108	Recombinant myelin oligodendrocyte glycoprotein quality modifies evolution of experimental autoimmune encephalitis in macaques. Laboratory Investigation, 2021, 101, 1513-1522.	1.7	1

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109	Microbicide-vaccine Combination Provides Significant Protection against Vaginal SHIV-162P3 Challenge in Cynomolgous Monkeys. AIDS Research and Human Retroviruses, 2014, 30, A26-A26.	0.5	0
110	Special Issue â€œImmune Ontogeny and Vaccination in Early Life: How the Non-Human Primate Model Can Help Expand the Current Knowledge in Pediatric Immunology and Infectious Diseases Researchâ€. Vaccines, 2021, 9, 1014.	2.1	0
111	SARS-COV-2 infection causes massive lung-cell senescence. Revue Des Maladies Respiratoires, 2022, 39, 121.	1.7	0
112	Impact of a PMMA tube on performances of a Vereos PET/CT system adapted for BSL-3 environment according to the NEMA NU2-2012 standard. EJNMMI Physics, 2022, 9, 22.	1.3	0