

Roger Le Grand

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Immunization with synthetic SARS-CoV-2 S glycoprotein virus-like particles protects macaques from infection. Cell Reports Medicine, 2022, 3, 100528.	3.3	6
3	Medical imaging of pulmonary disease in SARS-CoV-2-exposed non-human primates. Trends in Molecular Medicine, 2022, 28, 123-142.	3.5	10
4	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
5	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
6	Rituximab Impairs B Cell Response But Not T Cell Response to COVID-19 Vaccine in Autoimmune Diseases. Arthritis and Rheumatology, 2022, 74, 927-933.	2.9	52
7	SARS-COV-2 infection causes massive lung-cell senescence. Revue Des Maladies Respiratoires, 2022, 39, 121.	1.7	0
8	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
9	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
10	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
11	Local Innate Markers and Vaginal Microbiota Composition Are Influenced by Hormonal Cycle Phases. Frontiers in Immunology, 2022, 13, 841723.	2.2	9
12	A Case Study to Dissect Immunity to SARS-CoV-2 in a Neonate Nonhuman Primate Model. Frontiers in Immunology, 2022, 13, .	2.2	3
13	Identification of CX3CR1+ mononuclear phagocyte subsets involved in HIV-1 and SIV colorectal transmission. IScience, 2022, 25, 104346.	1.9	4
14	Isotopic Radiolabeling of the Antiretroviral Drug [18F]Dolutegravir for Pharmacokinetic PET Imaging. Pharmaceuticals, 2022, 15, 587.	1.7	2
15	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
16	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
17	Effectiveness of CHIKV vaccine VLA1553 demonstrated by passive transfer of human sera. JCI Insight, 2022, 7, .	2.3	14
18	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

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19	Analysis and annotation of DNA methylation in two nonhuman primate species using the Infinium Human Methylation 450K and EPIC BeadChips. <i>Epigenomics</i> , 2021, 13, 169-186.	1.0	9
20	Distinct Features of Germinal Center Reactions in Macaques Infected by SIV or Vaccinated with a T-Dependent Model Antigen. <i>Viruses</i> , 2021, 13, 263.	1.5	3
21	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. <i>Cell</i> , 2021, 184, 1188-1200.e19.	13.5	154
22	SARS-CoV-2 viral dynamics in non-human primates. <i>PLoS Computational Biology</i> , 2021, 17, e1008785.	1.5	41
23	Optimize Prime/Boost Vaccine Strategies: Trained Immunity as a New Player in the Game. <i>Frontiers in Immunology</i> , 2021, 12, 612747.	2.2	62
24	Vaccine Inoculation Route Modulates Early Immunity and Consequently Antigen-Specific Immune Response. <i>Frontiers in Immunology</i> , 2021, 12, 645210.	2.2	38
25	Role of NKG2a/c+CD8+ TÂcells in pathogenic versus non-pathogenic SIV infections. <i>IScience</i> , 2021, 24, 102314.	1.9	8
26	Predictive Markers of Immunogenicity and Efficacy for Human Vaccines. <i>Vaccines</i> , 2021, 9, 579.	2.1	25
27	Leukocytospermia induces intraepithelial recruitment of dendritic cells and increases SIV replication in colorectal tissue explants. <i>Communications Biology</i> , 2021, 4, 861.	2.0	5
28	Non-human primate models of human respiratory infections. <i>Molecular Immunology</i> , 2021, 135, 147-164.	1.0	17
29	Recombinant myelin oligodendrocyte glycoprotein quality modifies evolution of experimental autoimmune encephalitis in macaques. <i>Laboratory Investigation</i> , 2021, 101, 1513-1522.	1.7	1
30	Targeting SARS-CoV-2 receptor-binding domain to cells expressing CD40 improves protection to infection in convalescent macaques. <i>Nature Communications</i> , 2021, 12, 5215.	5.8	22
31	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€. <i>Vaccines</i> , 2021, 9, 1014.	2.1	0
32	An AAV-based, room-temperature-stable, single-dose COVID-19 vaccine provides durable immunogenicity and protection in non-human primates. <i>Cell Host and Microbe</i> , 2021, 29, 1437-1453.e8.	5.1	53
33	Immunogenicity of stabilized HIV-1 Env trimers delivered by self-amplifying mRNA. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 25, 483-493.	2.3	13
34	NK-B cell cross talk induces CXCR5 expression on natural killer cells. <i>IScience</i> , 2021, 24, 103109.	1.9	9
35	SARS-CoV-2 infection in nonhuman primates alters the composition and functional activity of the gut microbiota. <i>Gut Microbes</i> , 2021, 13, 1-19.	4.3	75
36	A recombinant measles virus vaccine strongly reduces SHIV viremia and virus reservoir establishment in macaques. <i>Npj Vaccines</i> , 2021, 6, 123.	2.9	2

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37	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models. <i>Nature Communications</i> , 2021, 12, 6097.	5.8	38
38	Response to COVID-19 mRNA vaccination in multiple myeloma is conserved but impaired compared to controls. <i>Journal of Hematology and Oncology</i> , 2021, 14, 166.	6.9	24
39	Intranasal inoculation with <i>Bordetella pertussis</i> confers protection without inducing classical whooping cough in baboons. <i>Current Research in Microbial Sciences</i> , 2021, 2, 100072.	1.4	4
40	Cross-reactive antibodies after SARS-CoV-2 infection and vaccination. <i>ELife</i> , 2021, 10, .	2.8	63
41	Combined treatment of molnupiravir and favipiravir against SARS-CoV-2 infection: One+ zero equals two?. <i>EBioMedicine</i> , 2021, 74, 103663.	2.7	16
42	The Route of Vaccine Administration Determines Whether Blood Neutrophils Undergo Long-Term Phenotypic Modifications. <i>Frontiers in Immunology</i> , 2021, 12, 784813.	2.2	3
43	A third SARS-CoV-2 spike vaccination improves neutralization of variants-of-concern. <i>Npj Vaccines</i> , 2021, 6, 146.	2.9	14
44	Mass Cytometry Reveals the Immaturity of Circulating Neutrophils during SIV Infection. <i>Journal of Innate Immunity</i> , 2020, 12, 170-181.	1.8	12
45	Broadly neutralizing antibodies potently inhibit cell-to-cell transmission of semen leukocyte-derived SHIV162P3. <i>EBioMedicine</i> , 2020, 57, 102842.	2.7	5
46	Animal models for COVID-19. <i>Nature</i> , 2020, 586, 509-515.	13.7	705
47	The importance of semen leukocytes in HIV-1 transmission and the development of prevention strategies. <i>Human Vaccines and Immunotherapeutics</i> , 2020, 16, 2018-2032.	1.4	8
48	Optimal Maturation of the SIV-Specific CD8+ T Cell Response after Primary Infection Is Associated with Natural Control of SIV: ANRS SIC Study. <i>Cell Reports</i> , 2020, 32, 108174.	2.9	12
49	Activation of Toll-Like Receptors Differentially Modulates Inflammation in the Human Reproductive Tract: Preliminary Findings. <i>Frontiers in Immunology</i> , 2020, 11, 1655.	2.2	17
50	Chloroquine Potentiates Primaquine Activity against Active and Latent Hepatic Plasmodia <i>Ex Vivo</i> : Potentials and Pitfalls. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 65, .	1.4	7
51	Non-human Primate Determinants of Natural Killer Cells in Tissues at Steady-State and During Simian Immunodeficiency Virus Infection. <i>Frontiers in Immunology</i> , 2020, 11, 2134.	2.2	11
52	Hydroxychloroquine use against SARS-CoV-2 infection in non-human primates. <i>Nature</i> , 2020, 585, 584-587.	13.7	287
53	Emerging preclinical evidence does not support broad use of hydroxychloroquine in COVID-19 patients. <i>Nature Communications</i> , 2020, 11, 4253.	5.8	43
54	Innate Molecular and Cellular Signature in the Skin Preceding Long-Lasting T Cell Responses after Electroporated DNA Vaccination. <i>Journal of Immunology</i> , 2020, 204, 3375-3388.	0.4	11

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55	Innate and Adaptive Anti-SIV Responses in Macaque Semen: Implications for Infectivity and Risk of Transmission. <i>Frontiers in Immunology</i> , 2020, 11, 850.	2.2	7
56	Impact of BAFF Blockade on Inflammation, Germinal Center Reaction and Effector B-Cells During Acute SIV Infection. <i>Frontiers in Immunology</i> , 2020, 11, 252.	2.2	6
57	Innate and secondary humoral responses are improved by increasing the time between MVA vaccine immunizations. <i>Npj Vaccines</i> , 2020, 5, 24.	2.9	24
58	The Integrase Inhibitors Dolutegravir and Raltegravir Exert Proadipogenic and Profibrotic Effects and Induce Insulin Resistance in Human/Simian Adipose Tissue and Human Adipocytes. <i>Clinical Infectious Diseases</i> , 2020, 71, e549-e560.	2.9	72
59	Capsid-specific removal of circulating antibodies to adeno-associated virus vectors. <i>Scientific Reports</i> , 2020, 10, 864.	1.6	72
60	A single lentivector DNA based immunization contains a late heterologous SIVmac251 mucosal challenge infection. <i>Vaccine</i> , 2020, 38, 3729-3739.	1.7	4
61	Dynamics of Vaginal and Rectal Microbiota Over Several Menstrual Cycles in Female Cynomolgus Macaques. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 188.	1.8	24
62	Cynomolgus macaque IL37 polymorphism and control of SIV infection. <i>Scientific Reports</i> , 2019, 9, 7981.	1.6	3
63	DC Subsets Regulate Humoral Immune Responses by Supporting the Differentiation of Distinct Tfh Cells. <i>Frontiers in Immunology</i> , 2019, 10, 1134.	2.2	37
64	FOXO1 transcription factor plays a key role in T cell-HIV-1 interaction. <i>PLoS Pathogens</i> , 2019, 15, e1007669.	2.1	23
65	Enhanced Transduction of <i>Macaca fascicularis</i> Hematopoietic Cells with Chimeric Lentiviral Vectors. <i>Human Gene Therapy</i> , 2019, 30, 1306-1323.	1.4	3
66	Seminal Plasma Exposures Strengthen Vaccine Responses in the Female Reproductive Tract Mucosae. <i>Frontiers in Immunology</i> , 2019, 10, 430.	2.2	1
67	NK cell immune responses differ after prime and boost vaccination. <i>Journal of Leukocyte Biology</i> , 2019, 105, 1055-1073.	1.5	20
68	Prime and Boost Vaccination Elicit a Distinct Innate Myeloid Cell Immune Response. <i>Scientific Reports</i> , 2018, 8, 3087.	1.6	35
69	Differential activity of methylene blue against erythrocytic and hepatic stages of <i>Plasmodium</i> . <i>Malaria Journal</i> , 2018, 17, 143.	0.8	20
70	Methotrexate and BAFF interaction prevents immunization against TNF inhibitors. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1463-1470.	0.5	25
71	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. <i>Frontiers in Immunology</i> , 2018, 9, 870.	2.2	7
72	Paradoxical Effect of Chloroquine Treatment in Enhancing Chikungunya Virus Infection. <i>Viruses</i> , 2018, 10, 268.	1.5	126

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73	Neutralizing Antibody-Based Prevention of Cell-Associated HIV-1 Infection. <i>Viruses</i> , 2018, 10, 333.	1.5	7
74	Whole genome sequencing in the search for genes associated with the control of SIV infection in the Mauritian macaque model. <i>Scientific Reports</i> , 2018, 8, 7131.	1.6	4
75	Impact of ring size and drug loading on the pharmacokinetics of a combination dapivirine-darunavir vaginal ring in cynomolgus macaques. <i>International Journal of Pharmaceutics</i> , 2018, 550, 300-308.	2.6	18
76	In vivo imaging of bacterial colonization of the lower respiratory tract in a baboon model of <i>Bordetella pertussis</i> infection and transmission. <i>Scientific Reports</i> , 2018, 8, 12297.	1.6	9
77	Seminal Simian Immunodeficiency Virus in Chronically Infected Cynomolgus Macaques Is Dominated by Virus Originating from Multiple Genital Organs. <i>Journal of Virology</i> , 2018, 92, .	1.5	20
78	In depth comparative phenotyping of blood innate myeloid leukocytes from healthy humans and macaques using mass cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 969-982.	1.1	29
79	Modified Vaccinia Virus Ankara Vector Induces Specific Cellular and Humoral Responses in the Female Reproductive Tract, the Main HIV Portal of Entry. <i>Journal of Immunology</i> , 2017, 199, 1923-1932.	0.4	12
80	Electroporation as a vaccine delivery system and a natural adjuvant to intradermal administration of plasmid DNA in macaques. <i>Scientific Reports</i> , 2017, 7, 4122.	1.6	49
81	Both Systemic and Intra-articular Immunization with Citrullinated Peptides Are Needed to Induce Arthritis in the Macaque. <i>Frontiers in Immunology</i> , 2017, 8, 1816.	2.2	7
82	Fibered Confocal Fluorescence Microscopy for the Noninvasive Imaging of Langerhans Cells in Macaques. <i>Contrast Media and Molecular Imaging</i> , 2017, 2017, 1-8.	0.4	8
83	Intradermal injection of an anti- α -Langerin-HIVGag fusion vaccine targets epidermal Langerhans cells in nonhuman primates and can be tracked in vivo. <i>European Journal of Immunology</i> , 2016, 46, 689-700.	1.6	17
84	Identification of Vaccine-Altered Circulating B Cell Phenotypes Using Mass Cytometry and a Two-Step Clustering Analysis. <i>Journal of Immunology</i> , 2016, 196, 4814-4831.	0.4	28
85	Long-Term Control of Simian Immunodeficiency Virus (SIV) in Cynomolgus Macaques Not Associated with Efficient SIV-Specific CD8 ⁺ T-Cell Responses. <i>Journal of Virology</i> , 2015, 89, 3542-3556.	1.5	21
86	HIV specific responses induced in nonhuman primates with ANRS HIV-Lipo-5 vaccine combined with rMVA-HIV prime or boost immunizations. <i>Vaccine</i> , 2015, 33, 2354-2359.	1.7	8
87	Identification of skin immune cells in non-human primates. <i>Journal of Immunological Methods</i> , 2015, 426, 42-49.	0.6	15
88	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. <i>Journal of Virology</i> , 2015, 89, 8643-8650.	1.5	42
89	Detection of Simian Immunodeficiency Virus in Semen, Urethra, and Male Reproductive Organs during Efficient Highly Active Antiretroviral Therapy. <i>Journal of Virology</i> , 2015, 89, 5772-5787.	1.5	45
90	Delivering HIV Gagp24 to DCIR Induces Strong Antibody Responses In Vivo. <i>PLoS ONE</i> , 2015, 10, e0135513.	1.1	20

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91	Plasmacytoid Dendritic Cell Dynamics Tune Interferon-Alpha Production in SIV-Infected Cynomolgus Macaques. <i>PLoS Pathogens</i> , 2014, 10, e1003915.	2.1	63
92	Innate Immune Responses and Rapid Control of Inflammation in African Green Monkeys Treated or Not with Interferon-Alpha during Primary SIV _{agm} Infection. <i>PLoS Pathogens</i> , 2014, 10, e1004241.	2.1	54
93	Microbicide-vaccine Combination Provides Significant Protection against Vaginal SHIV-162P3 Challenge in Cynomolgous Monkeys. <i>AIDS Research and Human Retroviruses</i> , 2014, 30, A26-A26.	0.5	0
94	Persistence and activation of malaria hypnozoites in long-term primary hepatocyte cultures. <i>Nature Medicine</i> , 2014, 20, 307-312.	15.2	160
95	Pre-clinical development of a combination microbicide vaginal ring containing dapivirine and darunavir. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 2477-2488.	1.3	37
96	C-Type Lectin-like Receptor LOX-1 Promotes Dendritic Cell-Mediated Class-Switched B Cell Responses. <i>Immunity</i> , 2014, 41, 592-604.	6.6	55
97	Macrophage- and Neutrophil-Derived TNF- α Instructs Skin Langerhans Cells To Prime Antiviral Immune Responses. <i>Journal of Immunology</i> , 2014, 193, 2416-2426.	0.4	43
98	Protective effect of vaginal application of neutralizing and nonneutralizing inhibitory antibodies against vaginal SHIV challenge in macaques. <i>Mucosal Immunology</i> , 2014, 7, 46-56.	2.7	152
99	Electroporation-Mediated Intradermal Delivery of DNA Vaccines in Nonhuman Primates. <i>Methods in Molecular Biology</i> , 2014, 1121, 309-313.	0.4	5
100	OMIP-16: Characterization of antigen-responsive macaque and human T _H cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83A, 182-184.	1.1	13
101	Semen CD4 ⁺ T Cells and Macrophages Are Productively Infected at All Stages of SIV infection in Macaques. <i>PLoS Pathogens</i> , 2013, 9, e1003810.	2.1	50
102	CD34 ⁺ -derived dendritic cells transfected ex vivo with HIV-1 ^{gag} mRNA induce polyfunctional T _H cell responses in nonhuman primates. <i>European Journal of Immunology</i> , 2012, 42, 2019-2030.	1.6	20
103	Default in plasma and intestinal IgA responses during acute infection by simian immunodeficiency virus. <i>Retrovirology</i> , 2012, 9, 43.	0.9	40
104	Towards an In Vitro Model of Plasmodium Hypnozoites Suitable for Drug Discovery. <i>PLoS ONE</i> , 2011, 6, e18162.	1.1	121
105	Chikungunya disease in nonhuman primates involves long-term viral persistence in macrophages. <i>Journal of Clinical Investigation</i> , 2010, 120, 894-906.	3.9	447
106	Persistent Immune Responses Induced by a Human Immunodeficiency Virus DNA Vaccine Delivered in Association with Electroporation in the Skin of Nonhuman Primates. <i>Human Gene Therapy</i> , 2009, 20, 1291-1307.	1.4	48
107	Dynamics of viral replication in blood and lymphoid tissues during SIV _{mac251} infection of macaques. <i>Retrovirology</i> , 2009, 6, 106.	0.9	50
108	Tissue-Specific B-Cell Dysfunction and Generalized Memory B-Cell Loss during Acute SIV Infection. <i>PLoS ONE</i> , 2009, 4, e5966.	1.1	65

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109	Dynamics of T-Cell Responses and Memory T Cells during Primary Simian Immunodeficiency Virus Infection in Cynomolgus Macaques. <i>Journal of Virology</i> , 2007, 81, 13456-13468.	1.5	62
110	An Animal Model for Antiretroviral Therapy: Effect of Zidovudine on Viral Load during Acute Infection after Exposure of Macaques to Simian Immunodeficiency Virus. <i>AIDS Research and Human Retroviruses</i> , 1994, 10, 1279-1287.	0.5	56
111	Vaccine Inoculation Route Modulates Early Immunity and Consequently Antigen-Specific Immune Response. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
112	Modelling the response to vaccine in non-human primates to define SARS-CoV-2 mechanistic correlates of protection. <i>ELife</i> , 0, 11, .	2.8	7