

Roger Le Grand

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

4,442
citations

136950

32
h-index

128289

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.	2.9	14
2	Immunization with synthetic SARS-CoV-2 S glycoprotein virus-like particles protects macaques from infection. Cell Reports Medicine, 2022, 3, 100528.	6.5	6
3	Medical imaging of pulmonary disease in SARS-CoV-2-exposed non-human primates. Trends in Molecular Medicine, 2022, 28, 123-142.	6.7	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.	4.8	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.	5.6	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.	4.4	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.	2.7	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.	4.1	4
11	Local Innate Markers and Vaginal Microbiota Composition Are Influenced by Hormonal Cycle Phases. Frontiers in Immunology, 2022, 13, 841723.	4.8	9
12	A Case Study to Dissect Immunity to SARS-CoV-2 in a Neonate Nonhuman Primate Model. Frontiers in Immunology, 2022, 13, .	4.8	3
13	Identification of CX3CR1+ mononuclear phagocyte subsets involved in HIV-1 and SIV colorectal transmission. IScience, 2022, 25, 104346.	4.1	4
14	Isotopic Radiolabeling of the Antiretroviral Drug [18F]Dolutegravir for Pharmacokinetic PET Imaging. Pharmaceuticals, 2022, 15, 587.	3.8	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.	8.2	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, .	4.4	7
17	Effectiveness of CHIKV vaccine VLA1553 demonstrated by passive transfer of human sera. JCI Insight, 2022, 7, .	5.0	14
18	SIV-induced terminally differentiated adaptive NK cells in lymph nodes associated with enhanced MHC-E restricted activity. Nature Communications, 2021, 12, 1282.	12.8	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.	2.1	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.	3.3	3
21	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. <i>Cell</i> , 2021, 184, 1188-1200.e19.	28.9	154
22	SARS-CoV-2 viral dynamics in non-human primates. <i>PLoS Computational Biology</i> , 2021, 17, e1008785.	3.2	41
23	Optimize Prime/Boost Vaccine Strategies: Trained Immunity as a New Player in the Game. <i>Frontiers in Immunology</i> , 2021, 12, 612747.	4.8	62
24	Vaccine Inoculation Route Modulates Early Immunity and Consequently Antigen-Specific Immune Response. <i>Frontiers in Immunology</i> , 2021, 12, 645210.	4.8	38
25	Role of NKG2a/c+CD8+ TÂcells in pathogenic versus non-pathogenic SIV infections. <i>IScience</i> , 2021, 24, 102314.	4.1	8
26	Predictive Markers of Immunogenicity and Efficacy for Human Vaccines. <i>Vaccines</i> , 2021, 9, 579.	4.4	25
27	Leukocytospermia induces intraepithelial recruitment of dendritic cells and increases SIV replication in colorectal tissue explants. <i>Communications Biology</i> , 2021, 4, 861.	4.4	5
28	Non-human primate models of human respiratory infections. <i>Molecular Immunology</i> , 2021, 135, 147-164.	2.2	17
29	Recombinant myelin oligodendrocyte glycoprotein quality modifies evolution of experimental autoimmune encephalitis in macaques. <i>Laboratory Investigation</i> , 2021, 101, 1513-1522.	3.7	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.	12.8	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.	4.4	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.	11.0	53
33	Immunogenicity of stabilized HIV-1 Env trimers delivered by self-amplifying mRNA. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 25, 483-493.	5.1	13
34	NK-B cell cross talk induces CXCR5 expression on natural killer cells. <i>IScience</i> , 2021, 24, 103109.	4.1	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.	9.8	75
36	A recombinant measles virus vaccine strongly reduces SHIV viremia and virus reservoir establishment in macaques. <i>Npj Vaccines</i> , 2021, 6, 123.	6.0	2

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37	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models. Nature Communications, 2021, 12, 6097.	12.8	38
38	Response to COVID-19 mRNA vaccination in multiple myeloma is conserved but impaired compared to controls. Journal of Hematology and Oncology, 2021, 14, 166.	17.0	24
39	Intranasal inoculation with Bordetella pertussis confers protection without inducing classical whooping cough in baboons. Current Research in Microbial Sciences, 2021, 2, 100072.	2.3	4
40	Cross-reactive antibodies after SARS-CoV-2 infection and vaccination. ELife, 2021, 10, .	6.0	63
41	Combined treatment of molnupiravir and favipiravir against SARS-CoV-2 infection: One+ zero equals two?. EBioMedicine, 2021, 74, 103663.	6.1	16
42	The Route of Vaccine Administration Determines Whether Blood Neutrophils Undergo Long-Term Phenotypic Modifications. Frontiers in Immunology, 2021, 12, 784813.	4.8	3
43	A third SARS-CoV-2 spike vaccination improves neutralization of variants-of-concern. Npj Vaccines, 2021, 6, 146.	6.0	14
44	Mass Cytometry Reveals the Immaturity of Circulating Neutrophils during SIV Infection. Journal of Innate Immunity, 2020, 12, 170-181.	3.8	12
45	Broadly neutralizing antibodies potently inhibit cell-to-cell transmission of semen leukocyte-derived SHIV162P3. EBioMedicine, 2020, 57, 102842.	6.1	5
46	Animal models for COVID-19. Nature, 2020, 586, 509-515.	27.8	705
47	The importance of semen leukocytes in HIV-1 transmission and the development of prevention strategies. Human Vaccines and Immunotherapeutics, 2020, 16, 2018-2032.	3.3	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. Cell Reports, 2020, 32, 108174.	6.4	12
49	Activation of Toll-Like Receptors Differentially Modulates Inflammation in the Human Reproductive Tract: Preliminary Findings. Frontiers in Immunology, 2020, 11, 1655.	4.8	17
50	Chloroquine Potentiates Primaquine Activity against Active and Latent Hepatic Plasmodia <i>Ex Vivo</i> : Potentials and Pitfalls. Antimicrobial Agents and Chemotherapy, 2020, 65, .	3.2	7
51	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.	4.8	11
52	Hydroxychloroquine use against SARS-CoV-2 infection in non-human primates. Nature, 2020, 585, 584-587.	27.8	287
53	Emerging preclinical evidence does not support broad use of hydroxychloroquine in COVID-19 patients. Nature Communications, 2020, 11, 4253.	12.8	43
54	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.	0.8	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.	4.8	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.	4.8	6
57	Innate and secondary humoral responses are improved by increasing the time between MVA vaccine immunizations. <i>Npj Vaccines</i> , 2020, 5, 24.	6.0	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.	5.8	72
59	Capsid-specific removal of circulating antibodies to adeno-associated virus vectors. <i>Scientific Reports</i> , 2020, 10, 864.	3.3	72
60	A single lentivector DNA based immunization contains a late heterologous SIVmac251 mucosal challenge infection. <i>Vaccine</i> , 2020, 38, 3729-3739.	3.8	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.	3.9	24
62	Cynomolgus macaque IL37 polymorphism and control of SIV infection. <i>Scientific Reports</i> , 2019, 9, 7981.	3.3	3
63	DC Subsets Regulate Humoral Immune Responses by Supporting the Differentiation of Distinct Tfh Cells. <i>Frontiers in Immunology</i> , 2019, 10, 1134.	4.8	37
64	FOXO1 transcription factor plays a key role in T cell-HIV-1 interaction. <i>PLoS Pathogens</i> , 2019, 15, e1007669.	4.7	23
65	Enhanced Transduction of Macaca fascicularis Hematopoietic Cells with Chimeric Lentiviral Vectors. <i>Human Gene Therapy</i> , 2019, 30, 1306-1323.	2.7	3
66	Seminal Plasma Exposures Strengthen Vaccine Responses in the Female Reproductive Tract Mucosae. <i>Frontiers in Immunology</i> , 2019, 10, 430.	4.8	1
67	NK cell immune responses differ after prime and boost vaccination. <i>Journal of Leukocyte Biology</i> , 2019, 105, 1055-1073.	3.3	20
68	Prime and Boost Vaccination Elicit a Distinct Innate Myeloid Cell Immune Response. <i>Scientific Reports</i> , 2018, 8, 3087.	3.3	35
69	Differential activity of methylene blue against erythrocytic and hepatic stages of Plasmodium. <i>Malaria Journal</i> , 2018, 17, 143.	2.3	20
70	Methotrexate and BAFF interaction prevents immunization against TNF inhibitors. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1463-1470.	0.9	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.	4.8	7
72	Paradoxical Effect of Chloroquine Treatment in Enhancing Chikungunya Virus Infection. <i>Viruses</i> , 2018, 10, 268.	3.3	126

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73	Neutralizing Antibody-Based Prevention of Cell-Associated HIV-1 Infection. <i>Viruses</i> , 2018, 10, 333.	3.3	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.	3.3	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.	5.2	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.	3.3	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, .	3.4	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.	1.5	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.	0.8	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.	3.3	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.	4.8	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.	0.8	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.	2.9	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.	0.8	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.	3.4	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.	3.8	8
87	Identification of skin immune cells in non-human primates. <i>Journal of Immunological Methods</i> , 2015, 426, 42-49.	1.4	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.	3.4	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.	3.4	45
90	Delivering HIV Gagp24 to DCIR Induces Strong Antibody Responses In Vivo. <i>PLoS ONE</i> , 2015, 10, e0135513.	2.5	20

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91	Plasmacytoid Dendritic Cell Dynamics Tune Interferon-Alpha Production in SIV-Infected Cynomolgus Macaques. PLoS Pathogens, 2014, 10, e1003915.	4.7	63
92	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.	4.7	54
93	Microbicide-vaccine Combination Provides Significant Protection against Vaginal SHIV-162P3 Challenge in Cynomolgous Monkeys. AIDS Research and Human Retroviruses, 2014, 30, A26-A26.	1.1	0
94	Persistence and activation of malaria hypnozoites in long-term primary hepatocyte cultures. Nature Medicine, 2014, 20, 307-312.	30.7	160
95	Pre-clinical development of a combination microbicide vaginal ring containing dapivirine and darunavir. Journal of Antimicrobial Chemotherapy, 2014, 69, 2477-2488.	3.0	37
96	C-Type Lectin-like Receptor LOX-1 Promotes Dendritic Cell-Mediated Class-Switched B Cell Responses. Immunity, 2014, 41, 592-604.	14.3	55
97	Macrophage- and Neutrophil-Derived TNF- α Instructs Skin Langerhans Cells To Prime Antiviral Immune Responses. Journal of Immunology, 2014, 193, 2416-2426.	0.8	43
98	Protective effect of vaginal application of neutralizing and nonneutralizing inhibitory antibodies against vaginal SHIV challenge in macaques. Mucosal Immunology, 2014, 7, 46-56.	6.0	152
99	Electroporation-Mediated Intradermal Delivery of DNA Vaccines in Nonhuman Primates. Methods in Molecular Biology, 2014, 1121, 309-313.	0.9	5
100	OMIP-016: Characterization of antigen-responsive macaque and human T α cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 182-184.	1.5	13
101	Semen CD4+ T Cells and Macrophages Are Productively Infected at All Stages of SIV infection in Macaques. PLoS Pathogens, 2013, 9, e1003810.	4.7	50
102	CD34-derived dendritic cells transfected ex vivo with HIV-1 Gag mRNA induce polyfunctional T α cell responses in nonhuman primates. European Journal of Immunology, 2012, 42, 2019-2030.	2.9	20
103	Default in plasma and intestinal IgA responses during acute infection by simian immunodeficiency virus. Retrovirology, 2012, 9, 43.	2.0	40
104	Towards an In Vitro Model of Plasmodium Hypnozoites Suitable for Drug Discovery. PLoS ONE, 2011, 6, e18162.	2.5	121
105	Chikungunya disease in nonhuman primates involves long-term viral persistence in macrophages. Journal of Clinical Investigation, 2010, 120, 894-906.	8.2	447
106	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.	2.7	48
107	Dynamics of viral replication in blood and lymphoid tissues during SIVmac251 infection of macaques. Retrovirology, 2009, 6, 106.	2.0	50
108	Tissue-Specific B-Cell Dysfunction and Generalized Memory B-Cell Loss during Acute SIV Infection. PLoS ONE, 2009, 4, e5966.	2.5	65

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109	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.	3.4	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. AIDS Research and Human Retroviruses, 1994, 10, 1279-1287.	1.1	56
111	Vaccine Inoculation Route Modulates Early Immunity and Consequently Antigen-Specific Immune Response. SSRN Electronic Journal, 0, , .	0.4	2
112	Modelling the response to vaccine in non-human primates to define SARS-CoV-2 mechanistic correlates of protection. ELife, 0, 11, .	6.0	7