Simon A Babayan

List of Publications by Year
in descending order

49 papers	2,828 citations	257450 24 h-index	206112 48 g-index
59 all docs	59 docs citations	59 times ranked	4766 citing authors

#	Article	IF	Citations
1	Exosomes secreted by nematode parasites transfer small RNAs to mammalian cells and modulate innate immunity. Nature Communications, 2014, 5, 5488.	12.8	640
2	Comparative genomics of the major parasitic worms. Nature Genetics, 2019, 51, 163-174.	21.4	377
3	Wild immunology. Molecular Ecology, 2011, 20, 872-880.	3.9	186
4	Predicting reservoir hosts and arthropod vectors from evolutionary signatures in RNA virus genomes. Science, 2018, 362, 577-580.	12.6	140
5	CTLA-4 and CD4+CD25+ Regulatory T Cells Inhibit Protective Immunity to Filarial Parasites In Vivo. Journal of Immunology, 2007, 179, 4626-4634.	0.8	113
6	Extracellular Onchocerca-derived small RNAs in host nodules and blood. Parasites and Vectors, 2015, 8, 58.	2.5	98
7	Reviewing the effects of food provisioning on wildlife immunity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170088.	4.0	74
8	Filarial Parasites Develop Faster and Reproduce Earlier in Response to Host Immune Effectors That Determine Filarial Life Expectancy. PLoS Biology, 2010, 8, e1000525.	5.6	73
9	Refugia and anthelmintic resistance: Concepts and challenges. International Journal for Parasitology: Drugs and Drug Resistance, 2019, 10, 51-57.	3.4	65
10	B-Cell Deficiency Suppresses Vaccine-Induced Protection against Murine Filariasis but Does Not Increase the Recovery Rate for Primary Infection. Infection and Immunity, 2001, 69, 7067-7073.	2.2	57
11	Resistance and Susceptibility to Filarial Infectionwith Litomosoides sigmodontis Are Associated with EarlyDifferences in Parasite Development and in Localized ImmuneReactions. Infection and Immunity, 2003, 71, 6820-6829.	2.2	55
12	Identifying and prioritizing potential human-infecting viruses from their genome sequences. PLoS Biology, 2021, 19, e3001390.	5.6	54
13	Vaccination against filarial nematodes with irradiated larvae provides long-term protection against the third larval stage but not against subsequent life cycle stages. International Journal for Parasitology, 2006, 36, 903-914.	3.1	50
14	Phylogenomics and Analysis of Shared Genes Suggest a Single Transition to Mutualism in Wolbachia of Nematodes. Genome Biology and Evolution, 2013, 5, 1668-1674.	2.5	49
15	Behaviour of filariae: morphological and anatomical signatures of their life style within the arthropod and vertebrate hosts. , 2003, 2, 16.		42
16	Elevated Immune Gene Expression Is Associated with Poor Reproductive Success of Urban Blue Tits. Frontiers in Ecology and Evolution, 2017, 5, .	2.2	42
17	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. Wellcome Open Research, 2019, 4, 76.	1.8	40
18	Future prospects and challenges of vaccines against filariasis. Parasite Immunology, 2012, 34, 243-253.	1.5	39

#	Article	IF	Citations
19	Onchocerca volvulus: The Road from Basic Biology to a Vaccine. Trends in Parasitology, 2018, 34, 64-79.	3.3	36
20	Detection of malaria parasites in dried human blood spots using mid-infrared spectroscopy and logistic regression analysis. Malaria Journal, 2019, 18, 341.	2.3	36
21	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. Wellcome Open Research, 2019, 4, 76.	1.8	36
22	Comparative Analysis of the Secretome from a Model Filarial Nematode (Litomosoides sigmodontis) Reveals Maximal Diversity in Gravid Female Parasites. Molecular and Cellular Proteomics, 2014, 13, 2527-2544.	3.8	32
23	Increased early local immune responses and altered worm development in high-dose infections of mice susceptible to the filaria Litomosoides sigmodontis. Medical Microbiology and Immunology, 2005, 194, 151-162.	4.8	29
24	Using mid-infrared spectroscopy and supervised machine-learning to identify vertebrate blood meals in the malaria vector, Anopheles arabiensis. Malaria Journal, 2019, 18, 187.	2.3	28
25	Rapid age-grading and species identification of natural mosquitoes for malaria surveillance. Nature Communications, 2022, 13, 1501.	12.8	28
26	Deletion of Parasite Immune Modulatory Sequences Combined with Immune Activating Signals Enhances Vaccine Mediated Protection against Filarial Nematodes. PLoS Neglected Tropical Diseases, 2012, 6, e1968.	3.0	26
27	Harnessing evolutionary biology to combat infectious disease. Nature Medicine, 2012, 18, 217-220.	30.7	23
28	The Immune and Non-Immune Pathways That Drive Chronic Gastrointestinal Helminth Burdens in the Wild. Frontiers in Immunology, 2018, 9, 56.	4.8	23
29	Pleural cellular reaction to the filarial infection Litomosoides sigmodontis is determined by the moulting process, the worm alteration, and the host strain. Parasitology International, 2008, 57, 201-211.	1.3	22
30	The Secreted Triose Phosphate Isomerase of Brugia malayi Is Required to Sustain Microfilaria Production In Vivo. PLoS Pathogens, 2014, 10, e1003930.	4.7	22
31	The parasitic worm product ES-62 promotes health- and life-span in a high calorie diet-accelerated mouse model of ageing. PLoS Pathogens, 2020, 16, e1008391.	4.7	22
32	Parasitic nematodes simultaneously suppress and benefit from coccidian coinfection in their natural mouse host. Parasitology, 2019, 146, 1096-1106.	1.5	21
33	The case for vaccine development in the strategy to eradicate river blindness (onchocerciasis) from Africa. Expert Review of Vaccines, 2015, 14, 1163-1165.	4.4	20
34	Comparative analysis of small RNAs released by the filarial nematode Litomosoides sigmodontis in vitro and in vivo. PLoS Neglected Tropical Diseases, 2019, 13, e0007811.	3.0	19
35	Age affects antibody levels and anthelmintic treatment efficacy in a wild rodent. International Journal for Parasitology: Parasites and Wildlife, 2019, 8, 240-247.	1.5	18
36	Examination of type material of two species ofLitomosoides(Filarioidea : Onchocercidae), parasites from bats ; taxonomic consequences. Parasite, 2003, 10, 211-218.	2.0	17

#	Article	IF	Citations
37	Blood-feeding in the young adult filarial wormsLitomosoides sigmodontis. Parasitology, 2005, 130, 421-428.	1.5	17
38	Inherent biomechanical traits enable infective filariae to disseminate through collecting lymphatic vessels. Nature Communications, 2019, 10, 2895.	12.8	17
39	Supplemented nutrition decreases helminth burden and increases drug efficacy in a natural hostâ€“helminth system. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202722.	2.6	17
40	Chronic helminth infection burden differentially affects haematopoietic cell development while ageing selectively impairs adaptive responses to infection. Scientific Reports, 2018, 8, 3802.	3.3	14
41	The subcutaneous movements of filarial infective larvae are impaired in vaccinated hosts in comparison to primary infected hosts. Parasites and Vectors, 2005, 4, 3.	1.3	11
42	Immunity in Society: Diverse Solutions to Common Problems. PLoS Biology, 2012, 10, e1001297.	5.6	11
43	Interactive effects of protein nutrition, genetic growth potential andHeligmosomoides bakeriinfection pressure on resilience and resistance in mice. Parasitology, 2011, 138, 1305-1315.	1.5	9
44	Variation in Local and Systemic Pro-Inflammatory Immune Markers of Wild Wood Mice after Anthelmintic Treatment. Integrative and Comparative Biology, 2019, 59, 1190-1202.	2.0	7
45	Vaccine-induced time- and age-dependent mucosal immunity to gastrointestinal parasite infection. Npj Vaccines, 2022, 7, .	6.0	6
46	DoesLitomosoides sigmodontissynthesize dimethylethanolamine from choline?. Parasitology, 2008, 135, 55-61.	1.5	4
47	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. Wellcome Open Research, 0, 4, 76.	1.8	2
48	Immune responses to macroparasites are sensitive to the interaction between genetic growth potential and protein nutrition in mice. Proceedings of the Nutrition Society, 2009, 68, .	1.0	0
49	ABO Blood Groups Do Not Predict Schistosoma mansoni Infection Profiles in Highly Endemic Villages of Uganda. Microorganisms, 2021, 9, 2448.	3.6	0