

# Aruna Dharshan De Silva

## List of Publications by Year in descending order

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73  
papers

5,033  
citations

126901

33  
h-index

98792

67  
g-index

78  
all docs

78  
docs citations

78  
times ranked

6797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of MHC Class I Presented Peptides That Enhance Immunogenicity. PLoS Computational Biology, 2013, 9, e1003266.	3.2	636
2	Comprehensive analysis of dengue virus-specific responses supports an HLA-linked protective role for CD8 <sup>+</sup> T cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2046-53.	7.1	524
3	Natural Ligand of Mouse CD1d1: Cellular Glycosylphosphatidylinositol. Science, 1998, 279, 1541-1544.	12.6	371
4	Dengue virus infection elicits highly polarized CX3CR1 <sup>+</sup> cytotoxic CD4 <sup>+</sup> T cells associated with protective immunity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4256-63.	7.1	266
5	Precursors of human CD4 <sup>+</sup> cytotoxic T lymphocytes identified by single-cell transcriptome analysis. Science Immunology, 2018, 3, .	11.9	209
6	Unique phenotypes and clonal expansions of human CD4 effector memory T cells re-expressing CD45RA. Nature Communications, 2017, 8, 1473.	12.8	208
7	The Human CD8 <sup>+</sup> T Cell Responses Induced by a Live Attenuated Tetravalent Dengue Vaccine Are Directed against Highly Conserved Epitopes. Journal of Virology, 2015, 89, 120-128.	3.4	148
8	Prior Dengue Virus Exposure Shapes T Cell Immunity to Zika Virus in Humans. Journal of Virology, 2017, 91, .	3.4	148
9	A lipid-encapsulated mRNA encoding a potently neutralizing human monoclonal antibody protects against chikungunya infection. Science Immunology, 2019, 4, .	11.9	147
10	Defective presentation of the CD1d1-restricted natural Va14Ja18 NKT lymphocyte antigen caused by Å-D-glucosylceramide synthase deficiency. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1849-1854.	7.1	142
11	Human CD8 <sup>+</sup> T-Cell Responses Against the 4 Dengue Virus Serotypes Are Associated With Distinct Patterns of Protein Targets. Journal of Infectious Diseases, 2015, 212, 1743-1751.	4.0	129
12	Longitudinal Analysis of Antibody Cross-neutralization Following Zika Virus and Dengue Virus Infection in Asia and the Americas. Journal of Infectious Diseases, 2018, 218, 536-545.	4.0	124
13	Lipid Protein Interactions: The Assembly of CD1d1 with Cellular Phospholipids Occurs in the Endoplasmic Reticulum. Journal of Immunology, 2002, 168, 723-733.	0.8	108
14	Insights into HLA-Restricted T Cell Responses in a Novel Mouse Model of Dengue Virus Infection Point toward New Implications for Vaccine Design. Journal of Immunology, 2011, 187, 4268-4279.	0.8	104
15	5'-Adenosinephosphosulphate reductase (CysH) protects Mycobacterium tuberculosis against free radicals during chronic infection phase in mice. Molecular Microbiology, 2006, 59, 1744-1753.	2.5	102
16	HLA-DRB1 Alleles Are Associated With Different Magnitudes of Dengue Virus-Specific CD4 <sup>+</sup> T-Cell Responses. Journal of Infectious Diseases, 2016, 214, 1117-1124.	4.0	88
17	Human CD4 <sup>+</sup> T Cell Responses to an Attenuated Tetravalent Dengue Vaccine Parallel Those Induced by Natural Infection in Magnitude, HLA Restriction, and Antigen Specificity. Journal of Virology, 2017, 91, .	3.4	83
18	Global Assessment of Dengue Virus-Specific CD4 <sup>+</sup> T Cell Responses in Dengue-Endemic Areas. Frontiers in Immunology, 2017, 8, 1309.	4.8	77

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19	Lipid-protein interactions: Biosynthetic assembly of CD1 with lipids in the endoplasmic reticulum is evolutionarily conserved. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1022-1026.	7.1	73
20	Immunodominant Dengue Virus-Specific CD8 <sup>+</sup> T Cell Responses Are Associated with a Memory PD-1 <sup>+</sup> Phenotype. Journal of Virology, 2016, 90, 4771-4779.	3.4	71
21	Cutting Edge: Transcriptional Profiling Reveals Multifunctional and Cytotoxic Antiviral Responses of Zika Virus-Specific CD8 <sup>+</sup> T Cells. Journal of Immunology, 2018, 201, 3487-3491.	0.8	70
22	An Integrated Workflow To Assess Technical and Biological Variability of Cell Population Frequencies in Human Peripheral Blood by Flow Cytometry. Journal of Immunology, 2017, 198, 1748-1758.	0.8	69
23	Dengue type 1 viruses circulating in humans are highly infectious and poorly neutralized by human antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 227-232.	7.1	69
24	Preexisting Neutralizing Antibody Responses Distinguish Clinically Inapparent and Apparent Dengue Virus Infections in a Sri Lankan Pediatric Cohort. Journal of Infectious Diseases, 2015, 211, 590-599.	4.0	57
25	HLA Class I and Class II Associations in Dengue Viral Infections in a Sri Lankan Population. PLoS ONE, 2011, 6, e20581.	2.5	56
26	New Dengue Virus Type 1 Genotype in Colombo, Sri Lanka. Emerging Infectious Diseases, 2011, 17, 2053-5.	4.3	55
27	Development of Envelope Protein Antigens To Serologically Differentiate Zika Virus Infection from Dengue Virus Infection. Journal of Clinical Microbiology, 2018, 56, .	3.9	53
28	Targeting Mycobacterium tuberculosis Tumor Necrosis Factor Alpha-Downregulating Genes for the Development of Antituberculous Vaccines. MBio, 2016, 7, .	4.1	52
29	Estimates of Dengue Force of Infection in Children in Colombo, Sri Lanka. PLoS Neglected Tropical Diseases, 2013, 7, e2259.	3.0	49
30	T Cell Responses Induced by Attenuated Flavivirus Vaccination Are Specific and Show Limited Cross-Reactivity with Other Flavivirus Species. Journal of Virology, 2020, 94, .	3.4	49
31	Distinct Roles for Signals Relayed through the Common Cytokine Receptor $\beta$ Chain and Interleukin 7 Receptor $\alpha$ Chain in Natural T Cell Development. Journal of Experimental Medicine, 1997, 186, 331-336.	8.5	48
32	Dengue-specific CD8 <sup>+</sup> T cell subsets display specialized transcriptomic and TCR profiles. Journal of Clinical Investigation, 2019, 129, 1727-1741.	8.2	41
33	Human mAbs Broadly Protect against Arthritogenic Alphaviruses by Recognizing Conserved Elements of the Mxra8 Receptor-Binding Site. Cell Host and Microbe, 2020, 28, 699-711.e7.	11.0	40
34	Burden of Dengue Infection and Disease in a Pediatric Cohort in Urban Sri Lanka. American Journal of Tropical Medicine and Hygiene, 2014, 91, 132-137.	1.4	35
35	Characterization of Magnitude and Antigen Specificity of HLA-DP, DQ, and DRB3/4/5 Restricted DENV-Specific CD4 <sup>+</sup> T Cell Responses. Frontiers in Immunology, 2019, 10, 1568.	4.8	35
36	Molecular Signatures of Dengue Virus-Specific IL-10/IFN- $\beta$ Co-producing CD4 <sup>+</sup> T Cells and Their Association with Dengue Disease. Cell Reports, 2019, 29, 4482-4495.e4.	6.4	35

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37	Use of Rapid Influenza Testing to Reduce Antibiotic Prescriptions Among Outpatients with Influenza-Like Illness in Southern Sri Lanka. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 93, 1031-1037.	1.4	33
38	Evaluation of the WHO 2009 classification for diagnosis of acute dengue in a large cohort of adults and children in Sri Lanka during a dengue-1 epidemic. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006258.	3.0	31
39	Laboratory-Enhanced Dengue Sentinel Surveillance in Colombo District, Sri Lanka: 2012-2014. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004477.	3.0	26
40	Emergence of Epidemic Dengue-1 Virus in the Southern Province of Sri Lanka. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004995.	3.0	24
41	Patterns of Cellular Immunity Associated with Experimental Infection with rDEN2 <sup>130</sup> (Tonga/74) Support Its Suitability as a Human Dengue Virus Challenge Strain. <i>Journal of Virology</i> , 2017, 91, .	3.4	24
42	Gene Expression Profile of Human Cytokines in Response to <i>Burkholderia pseudomallei</i> Infection. <i>MSphere</i> , 2017, 2, .	2.9	22
43	Melioidosis in Sri Lanka. <i>Tropical Medicine and Infectious Disease</i> , 2018, 3, 22.	2.3	21
44	Extended-spectrum $\beta$ -Lactamase-producing <i>Enterobacteriaceae</i> as a Common Cause of Urinary Tract Infections in Sri Lanka. <i>Infection and Chemotherapy</i> , 2016, 48, 160.	2.3	18
45	Host gene expression analysis in Sri Lankan melioidosis patients. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005643.	3.0	17
46	Polymorphisms of transporter associated with antigen presentation, tumor necrosis factor- $\alpha$ and interleukin-10 and their implications for protection and susceptibility to severe forms of dengue fever in patients in Sri Lanka. <i>Journal of Global Infectious Diseases</i> , 2015, 7, 157.	0.5	17
47	Phylogeography and Molecular Epidemiology of an Epidemic Strain of Dengue Virus Type 1 in Sri Lanka. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 91, 225-234.	1.4	16
48	Burden and Seasonality of Viral Acute Respiratory Tract Infections among Outpatients in Southern Sri Lanka. <i>American Journal of Tropical Medicine and Hygiene</i> , 2017, 97, 88-96.	1.4	16
49	High Levels of Serum Angiopoietin 2 and Angiopoietin 2/1 Ratio at the Critical Stage of Dengue Hemorrhagic Fever in Patients and Association with Clinical and Biochemical Parameters. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	15
50	Dengue Surveillance in Colombo, Sri Lanka: Baseline seroprevalence among children. <i>Procedia in Vaccinology</i> , 2010, 2, 109-112.	0.4	13
51	Current Understanding of the Role of T Cells in Chikungunya, Dengue and Zika Infections. <i>Viruses</i> , 2022, 14, 242.	3.3	13
52	Analysis of Dengue Serotype 4 in Sri Lanka during the 2012–2013 Dengue Epidemic. <i>American Journal of Tropical Medicine and Hygiene</i> , 2017, 97, 130-136.	1.4	12
53	An Under-Recognized Influenza Epidemic Identified by Rapid Influenza Testing, Southern Sri Lanka, 2013. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 1023-1029.	1.4	11
54	Pre-existing T Cell Memory against Zika Virus. <i>Journal of Virology</i> , 2021, 95, .	3.4	11

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55	Calprotectin as a Biomarker for Melioidosis Disease Progression and Management. <i>Journal of Clinical Microbiology</i> , 2017, 55, 1205-1210.	3.9	10
56	Genetic risk for dengue hemorrhagic fever and dengue fever in multiple ancestries. <i>EBioMedicine</i> , 2020, 51, 102584.	6.1	10
57	Is Total Serum Nitrite and Nitrate (NOx) Level in Dengue Patients a Potential Prognostic Marker of Dengue Hemorrhagic Fever?. <i>Disease Markers</i> , 2018, 2018, 1-9.	1.3	9
58	Clinical, Bacteriologic, and Geographic Stratification of Melioidosis Emerges from the Sri Lankan National Surveillance Program. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 98, 607-615.	1.4	8
59	Respiratory Viral Infection: An Underappreciated Cause of Acute Febrile Illness Admissions in Southern Sri Lanka. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019, 100, 672-680.	1.4	8
60	A Population of CD4+CD8+ Double-Positive T Cells Associated with Risk of Plasma Leakage in Dengue Viral Infection. <i>Viruses</i> , 2022, 14, 90.	3.3	8
61	Sequence-based HLA-A, B, C, DP, DQ, and DR typing of 714 adults from Colombo, Sri Lanka. <i>Human Immunology</i> , 2018, 79, 87-88.	2.4	7
62	Preliminary study on chronic granulomatous disease in Sri Lanka. <i>Allergy, Asthma and Clinical Immunology</i> , 2018, 14, 37.	2.0	7
63	Nonclonal <i>Burkholderia pseudomallei</i> Population in Melioidosis Case Cluster, Sri Lanka. <i>Emerging Infectious Diseases</i> , 2021, 27, 2955-2957.	4.3	7
64	Geospatial analysis of dengue emergence in rural areas in the Southern Province of Sri Lanka. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2020, 114, 408-414.	1.8	6
65	Biogeography and genetic diversity of clinical isolates of <i>Burkholderia pseudomallei</i> in Sri Lanka. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009917.	3.0	6
66	Transcriptomics of Acute DENV-Specific CD8+ T Cells Does Not Support Qualitative Differences as Drivers of Disease Severity. <i>Vaccines</i> , 2022, 10, 612.	4.4	6
67	Whole-Genome Sequences of Eight Clinical Isolates of <i>Burkholderia pseudomallei</i> from Melioidosis Patients in Eastern Sri Lanka. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	5
68	Induction of high levels of protective immunity in mice after vaccination using dendritic cells infected with auxotrophic mutants of <i>Mycobacterium tuberculosis</i> . <i>Immunology Letters</i> , 2006, 103, 196-199.	2.5	4
69	Outcomes among children and adults at risk of severe dengue in Sri Lanka: Opportunity for outpatient case management in countries with high disease burden. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0010091.	3.0	4
70	Preventing ragging: outcome of an integrated programme in a medical faculty in Sri Lanka. <i>Indian Journal of Medical Ethics</i> , 2015, 12, 227-30.	0.4	3
71	Evaluation of ELISA-Based Multiplex Peptides for the Detection of Human Serum Antibodies Induced by Zika Virus Infection across Various Countries. <i>Viruses</i> , 2021, 13, 1319.	3.3	2
72	Comparison of two rapid test kits with real time polymerase chain reaction for early diagnosis of dengue in Sri Lanka. <i>Journal of Immunoassay and Immunochemistry</i> , 2022, 43, 213-221.	1.1	2

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73	An increase in p62/NBR1 levels in melioidosis patients of Sri Lanka exhibit a characteristic of potential host biomarker. <i>Journal of Medical Microbiology</i> , 2020, 69, 1240-1248.	1.8	1