

Bali Pulendran

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

23,812
citations

10986

71
h-index

16650

123
g-index

144
all docs

144
docs citations

144
times ranked

30473
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of immune responses to vaccination by the microbiota: implications and potential mechanisms. <i>Nature Reviews Immunology</i> , 2022, 22, 33-46.	22.7	124
2	Designing spatial and temporal control of vaccine responses. <i>Nature Reviews Materials</i> , 2022, 7, 174-195.	48.7	130
3	Durability of immune responses to the BNT162b2 mRNA vaccine. <i>Med</i> , 2022, 3, 25-27.	4.4	33
4	Immune imprinting, breadth of variant recognition, and germinal center response in human SARS-CoV-2 infection and vaccination. <i>Cell</i> , 2022, 185, 1025-1040.e14.	28.9	243
5	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity. <i>Science Translational Medicine</i> , 2022, 14, eabm7853.	12.4	71
6	A molecular atlas of innate immunity to adjuvanted and live attenuated vaccines, in mice. <i>Nature Communications</i> , 2022, 13, 549.	12.8	21
7	Safety, immunogenicity, and protection provided by unadjuvanted and adjuvanted formulations of a recombinant plant-derived virus-like particle vaccine candidate for COVID-19 in nonhuman primates. <i>Cellular and Molecular Immunology</i> , 2022, 19, 222-233.	10.5	37
8	Antibodies elicited by SARS-CoV-2 infection or mRNA vaccines have reduced neutralizing activity against Beta and Omicron pseudoviruses. <i>Science Translational Medicine</i> , 2022, 14, eabn7842.	12.4	92
9	Natural resistance against infections: focus on COVID-19. <i>Trends in Immunology</i> , 2022, 43, 106-116.	6.8	17
10	Mechanisms of innate and adaptive immunity to the Pfizer-BioNTech BNT162b2 vaccine. <i>Nature Immunology</i> , 2022, 23, 543-555.	14.5	185
11	Epigenetic adjuvants: durable reprogramming of the innate immune system with adjuvants. <i>Current Opinion in Immunology</i> , 2022, 77, 102189.	5.5	15
12	Adjuvanting a subunit SARS-CoV-2 vaccine with clinically relevant adjuvants induces durable protection in mice. <i>Npj Vaccines</i> , 2022, 7, .	6.0	32
13	Systems Biological Analysis of Immune Response to Influenza Vaccination. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2021, 11, a038596.	6.2	11
14	The C3/465 glycan hole cluster in BG505 HIV-1 envelope is the major neutralizing target involved in preventing mucosal SHIV infection. <i>PLoS Pathogens</i> , 2021, 17, e1009257.	4.7	23
15	Auto-antibodies to type I IFNs can underlie adverse reactions to yellow fever live attenuated vaccine. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	130
16	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , 2021, 594, 253-258.	27.8	253
17	Emerging concepts in the science of vaccine adjuvants. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 454-475.	46.4	601
18	A system-view of <i>Bordetella pertussis</i> booster vaccine responses in adults primed with whole-cell versus acellular vaccine in infancy. <i>JCI Insight</i> , 2021, 6, .	5.0	10

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19	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. <i>Cell</i> , 2021, 184, 3915-3935.e21.	28.9	133
20	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. <i>Nature</i> , 2021, 596, 410-416.	27.8	313
21	Immunophenotyping assessment in a COVID-19 cohort (IMPACC): A prospective longitudinal study. <i>Science Immunology</i> , 2021, 6, .	11.9	20
22	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021, 184, 5432-5447.e16.	28.9	131
23	Hydrogel-Based Slow Release of a Receptor-Binding Domain Subunit Vaccine Elicits Neutralizing Antibody Responses Against SARS-CoV-2. <i>Advanced Materials</i> , 2021, 33, e2104362.	21.0	48
24	Direct comparison of antibody responses to four SARS-CoV-2 vaccines in Mongolia. <i>Cell Host and Microbe</i> , 2021, 29, 1738-1743.e4.	11.0	61
25	Vaccine innovations for emerging infectious diseases—a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020, 1462, 14-26.	3.8	15
26	Systems Biological Approaches for Mucosal Vaccine Development. , 2020, , 753-772.		2
27	Systems Vaccinology for a Live Attenuated Tularemia Vaccine Reveals Unique Transcriptional Signatures That Predict Humoral and Cellular Immune Responses. <i>Vaccines</i> , 2020, 8, 4.	4.4	40
28	Adjuvanted H5N1 influenza vaccine enhances both cross-reactive memory B cell and strain-specific naive B cell responses in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17957-17964.	7.1	57
29	The immunology of SARS-CoV-2 infections and vaccines. <i>Seminars in Immunology</i> , 2020, 50, 101422.	5.6	85
30	The Impact of the Microbiome on Immunity to Vaccination in Humans. <i>Cell Host and Microbe</i> , 2020, 28, 169-179.	11.0	104
31	Systems biological assessment of immunity to mild versus severe COVID-19 infection in humans. <i>Science</i> , 2020, 369, 1210-1220.	12.6	947
32	The science and medicine of human immunology. <i>Science</i> , 2020, 369, .	12.6	147
33	Injectable Hydrogels for Sustained Codelivery of Subunit Vaccines Enhance Humoral Immunity. <i>ACS Central Science</i> , 2020, 6, 1800-1812.	11.3	113
34	Persistence of Varicella-Zoster Virus-Specific Plasma Cells in Adult Human Bone Marrow following Childhood Vaccination. <i>Journal of Virology</i> , 2020, 94, .	3.4	15
35	T cell-inducing vaccine durably prevents mucosal SHIV infection even with lower neutralizing antibody titers. <i>Nature Medicine</i> , 2020, 26, 932-940.	30.7	124
36	Emerging technologies for systems vaccinology — multi-omics integration and single-cell (epi)genomic profiling. <i>Current Opinion in Immunology</i> , 2020, 65, 57-64.	5.5	23

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37	3M-052, a synthetic TLR-7/8 agonist, induces durable HIV-1 envelope-specific plasma cells and humoral immunity in nonhuman primates. <i>Science Immunology</i> , 2020, 5, .	11.9	90
38	Squalene emulsion-based vaccine adjuvants stimulate CD8 T cell, but not antibody responses, through a RIPK3-dependent pathway. <i>ELife</i> , 2020, 9, .	6.0	48
39	N6-Methyladenosine Modification Controls Circular RNA Immunity. <i>Molecular Cell</i> , 2019, 76, 96-109.e9.	9.7	348
40	Antibiotics-Driven Gut Microbiome Perturbation Alters Immunity to Vaccines in Humans. <i>Cell</i> , 2019, 178, 1313-1328.e13.	28.9	402
41	West Nile Virus Infection Blocks Inflammatory Response and T Cell Costimulatory Capacity of Human Monocyte-Derived Dendritic Cells. <i>Journal of Virology</i> , 2019, 93, .	3.4	15
42	STAT5: a Target of Antagonism by Neurotropic Flaviviruses. <i>Journal of Virology</i> , 2019, 93, .	3.4	18
43	Clade C HIV-1 Envelope Vaccination Regimens Differ in Their Ability To Elicit Antibodies with Moderate Neutralization Breadth against Genetically Diverse Tier 2 HIV-1 Envelope Variants. <i>Journal of Virology</i> , 2019, 93, .	3.4	24
44	Understanding the immunology of the Zostavax shingles vaccine. <i>Current Opinion in Immunology</i> , 2019, 59, 25-30.	5.5	18
45	Immunology taught by vaccines. <i>Science</i> , 2019, 366, 1074-1075.	12.6	21
46	Vaccine induction of antibodies and tissue-resident CD8+ T cells enhances protection against mucosal SHIV-infection in young macaques. <i>JCI Insight</i> , 2019, 4, .	5.0	50
47	The potential of the microbiota to influence vaccine responses. <i>Journal of Leukocyte Biology</i> , 2018, 103, 225-231.	3.3	72
48	BALDR: a computational pipeline for paired heavy and light chain immunoglobulin reconstruction in single-cell RNA-seq data. <i>Genome Medicine</i> , 2018, 10, 20.	8.2	60
49	Will Systems Biology Deliver Its Promise and Contribute to the Development of New or Improved Vaccines?. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a028894.	5.5	35
50	B Cell Competition for Restricted T Cell Help Suppresses Rare-Epitope Responses. <i>Cell Reports</i> , 2018, 25, 321-327.e3.	6.4	42
51	Breadth and Functionality of Varicella-Zoster Virus Glycoprotein-Specific Antibodies Identified after Zostavax Vaccination in Humans. <i>Journal of Virology</i> , 2018, 92, .	3.4	23
52	Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. <i>PLoS Pathogens</i> , 2018, 14, e1006913.	4.7	111
53	Th1/Th17 polarization persists following whole-cell pertussis vaccination despite repeated acellular boosters. <i>Journal of Clinical Investigation</i> , 2018, 128, 3853-3865.	8.2	107
54	Systems analysis of protective immune responses to RTS,S malaria vaccination in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2425-2430.	7.1	249

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55	Metabolic Phenotypes of Response to Vaccination in Humans. <i>Cell</i> , 2017, 169, 862-877.e17.	28.9	234
56	Adjuvanting a Simian Immunodeficiency Virus Vaccine with Toll-Like Receptor Ligands Encapsulated in Nanoparticles Induces Persistent Antibody Responses and Enhanced Protection in TRIM5 \pm Restrictive Macaques. <i>Journal of Virology</i> , 2017, 91, .	3.4	70
57	Multicohort analysis reveals baseline transcriptional predictors of influenza vaccination responses. <i>Science Immunology</i> , 2017, 2, .	11.9	122
58	mTOR regulates metabolic adaptation of APCs in the lung and controls the outcome of allergic inflammation. <i>Science</i> , 2017, 357, 1014-1021.	12.6	98
59	Cell type discovery and representation in the era of high-content single cell phenotyping. <i>BMC Bioinformatics</i> , 2017, 18, 559.	2.6	51
60	Zika Virus Infects Human Placental Macrophages. <i>Cell Host and Microbe</i> , 2016, 20, 83-90.	11.0	410
61	Sequential Infection with Common Pathogens Promotes Human-like Immune Gene Expression and Altered Vaccine Response. <i>Cell Host and Microbe</i> , 2016, 19, 713-719.	11.0	189
62	Refined protocol for generating monoclonal antibodies from single human and murine B cells. <i>Journal of Immunological Methods</i> , 2016, 438, 67-70.	1.4	65
63	Virus-Like Particles Displaying Trimeric Simian Immunodeficiency Virus (SIV) Envelope gp160 Enhance the Breadth of DNA/Modified Vaccinia Virus Ankara SIV Vaccine-Induced Antibody Responses in Rhesus Macaques. <i>Journal of Virology</i> , 2016, 90, 8842-8854.	3.4	34
64	Direct Probing of Germinal Center Responses Reveals Immunological Features and Bottlenecks for Neutralizing Antibody Responses to HIV Env Trimer. <i>Cell Reports</i> , 2016, 17, 2195-2209.	6.4	150
65	Cytokine-Independent Detection of Antigen-Specific Germinal Center T Follicular Helper Cells in Immunized Nonhuman Primates Using a Live Cell Activation-Induced Marker Technique. <i>Journal of Immunology</i> , 2016, 197, 994-1002.	0.8	130
66	Systems biology of immunity to MF59-adjuvanted versus nonadjuvanted trivalent seasonal influenza vaccines in early childhood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1853-1858.	7.1	176
67	The amino acid sensor GCN2 controls gut inflammation by inhibiting inflammasome activation. <i>Nature</i> , 2016, 531, 523-527.	27.8	221
68	CXCL13 is a plasma biomarker of germinal center activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2702-2707.	7.1	322
69	Signatures in Simian Immunodeficiency Virus SIVsmE660 Envelope gp120 Are Associated with Mucosal Transmission but Not Vaccination Breakthrough in Rhesus Macaques. <i>Journal of Virology</i> , 2016, 90, 1880-1887.	3.4	15
70	Vaccinology in the era of high-throughput biology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140146.	4.0	55
71	Characterization and Implementation of a Diverse Simian Immunodeficiency Virus SIVsm Envelope Panel in the Assessment of Neutralizing Antibody Breadth Elicited in Rhesus Macaques by Multimodal Vaccines Expressing the SIVmac239 Envelope. <i>Journal of Virology</i> , 2015, 89, 8130-8151.	3.4	35
72	Systems Analysis of Immunity to Influenza Vaccination across Multiple Years and in Diverse Populations Reveals Shared Molecular Signatures. <i>Immunity</i> , 2015, 43, 1186-1198.	14.3	286

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73	Vaccine-induced plasmablast responses in rhesus macaques: Phenotypic characterization and a source for generating antigen-specific monoclonal antibodies. <i>Journal of Immunological Methods</i> , 2015, 416, 69-83.	1.4	43
74	The Varieties of Immunological Experience: Of Pathogens, Stress, and Dendritic Cells. <i>Annual Review of Immunology</i> , 2015, 33, 563-606.	21.8	103
75	Initial viral load determines the magnitude of the human CD8 T cell response to yellow fever vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3050-3055.	7.1	111
76	Liver fibrosis occurs through dysregulation of MyD88-dependent innate B cell activity. <i>Hepatology</i> , 2015, 61, 2067-2079.	7.3	67
77	Low Doses of Imatinib Induce Myelopoiesis and Enhance Host Anti-microbial Immunity. <i>PLoS Pathogens</i> , 2015, 11, e1004770.	4.7	60
78	Systems vaccinology: Enabling rational vaccine design with systems biological approaches. <i>Vaccine</i> , 2015, 33, 5294-5301.	3.8	108
79	Systems vaccinology: Probing humanity's diverse immune systems with vaccines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12300-12306.	7.1	162
80	Broadly Reactive Human CD8 T Cells that Recognize an Epitope Conserved between VZV, HSV and EBV. <i>PLoS Pathogens</i> , 2014, 10, e1004008.	4.7	36
81	Activation of Toll-like Receptor-2 by Endogenous Matrix Metalloproteinase-2 Modulates Dendritic-Cell-Mediated Inflammatory Responses. <i>Cell Reports</i> , 2014, 9, 1856-1870.	6.4	33
82	Molecular signatures of antibody responses derived from a systems biology study of five human vaccines. <i>Nature Immunology</i> , 2014, 15, 195-204.	14.5	672
83	Vaccine Activation of the Nutrient Sensor GCN2 in Dendritic Cells Enhances Antigen Presentation. <i>Science</i> , 2014, 343, 313-317.	12.6	181
84	TLR5-Mediated Sensing of Gut Microbiota Is Necessary for Antibody Responses to Seasonal Influenza Vaccination. <i>Immunity</i> , 2014, 41, 478-492.	14.3	444
85	Dengue Virus Infection Induces Expansion of a CD14+CD16+ Monocyte Population that Stimulates Plasmablast Differentiation. <i>Cell Host and Microbe</i> , 2014, 16, 115-127.	11.0	220
86	Emerging functions of the unfolded protein response in immunity. <i>Nature Immunology</i> , 2014, 15, 910-919.	14.5	213
87	Systems analysis of West Nile virus infection. <i>Current Opinion in Virology</i> , 2014, 6, 70-75.	5.4	12
88	Immunity to viruses: learning from successful human vaccines. <i>Immunological Reviews</i> , 2013, 255, 243-255.	6.0	76
89	Chronic but Not Acute Virus Infection Induces Sustained Expansion of Myeloid Suppressor Cell Numbers that Inhibit Viral-Specific T Cell Immunity. <i>Immunity</i> , 2013, 38, 309-321.	14.3	113
90	Predicting Network Activity from High Throughput Metabolomics. <i>PLoS Computational Biology</i> , 2013, 9, e1003123.	3.2	697

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91	Systems vaccinology. <i>Current Opinion in HIV and AIDS</i> , 2012, 7, 24-31.	3.8	48
92	New Paradigms in Type 2 Immunity. <i>Science</i> , 2012, 337, 431-435.	12.6	370
93	Identifying gnostic predictors of the vaccine response. <i>Current Opinion in Immunology</i> , 2012, 24, 332-336.	5.5	17
94	A Blueprint for HIV Vaccine Discovery. <i>Cell Host and Microbe</i> , 2012, 12, 396-407.	11.0	348
95	Systems Biology of Vaccination in the Elderly. <i>Current Topics in Microbiology and Immunology</i> , 2012, 363, 117-142.	1.1	28
96	Systems vaccinology: learning to compute the behavior of vaccine induced immunity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 193-205.	6.6	78
97	Distinct TLR adjuvants differentially stimulate systemic and local innate immune responses in nonhuman primates. <i>Blood</i> , 2012, 119, 2044-2055.	1.4	140
98	Systems biology of vaccination for seasonal influenza in humans. <i>Nature Immunology</i> , 2011, 12, 786-795.	14.5	749
99	Dendritic cell control of tolerogenic responses. <i>Immunological Reviews</i> , 2011, 241, 206-227.	6.0	319
100	Immunological mechanisms of vaccination. <i>Nature Immunology</i> , 2011, 12, 509-517.	14.5	790
101	Programming the magnitude and persistence of antibody responses with innate immunity. <i>Nature</i> , 2011, 470, 543-547.	27.8	847
102	Functional Specializations of Intestinal Dendritic Cell and Macrophage Subsets That Control Th17 and Regulatory T Cell Responses Are Dependent on the T Cell/APC Ratio, Source of Mouse Strain, and Regional Localization. <i>Journal of Immunology</i> , 2011, 187, 733-747.	0.8	290
103	Response to Comment on "Activation of β -Catenin in Dendritic Cells Regulates Immunity Versus Tolerance in the Intestine". <i>Science</i> , 2011, 333, 405-405.	12.6	0
104	Learning vaccinology from viral infections. <i>Journal of Experimental Medicine</i> , 2011, 208, 2347-2349.	8.5	12
105	Activation of β -Catenin in Dendritic Cells Regulates Immunity Versus Tolerance in the Intestine. <i>Science</i> , 2010, 329, 849-853.	12.6	480
106	Systems Vaccinology. <i>Immunity</i> , 2010, 33, 516-529.	14.3	343
107	The T helper type 2 response to cysteine proteases requires dendritic cell-basophil cooperation via ROS-mediated signaling. <i>Nature Immunology</i> , 2010, 11, 608-617.	14.5	287
108	Programming dendritic cells to induce TH2 and tolerogenic responses. <i>Nature Immunology</i> , 2010, 11, 647-655.	14.5	337

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109	A Versatile Role of Mammalian Target of Rapamycin in Human Dendritic Cell Function and Differentiation. <i>Journal of Immunology</i> , 2010, 185, 3919-3931.	0.8	205
110	Regional localization of intestinal dendritic cell subsets control Th17 responses. <i>FASEB Journal</i> , 2010, 24, 355.7.	0.5	0
111	Systems biology approach predicts immunogenicity of the yellow fever vaccine in humans. <i>Nature Immunology</i> , 2009, 10, 116-125.	14.5	1,019
112	Toll-like receptor 2-dependent induction of vitamin A metabolizing enzymes in dendritic cells promotes T regulatory responses and inhibits autoimmunity. <i>Nature Medicine</i> , 2009, 15, 401-409.	30.7	277
113	Learning immunology from the yellow fever vaccine: innate immunity to systems vaccinology. <i>Nature Reviews Immunology</i> , 2009, 9, 741-747.	22.7	251
114	Toll-like receptor-mediated induction of type I interferon in plasmacytoid dendritic cells requires the rapamycin-sensitive PI(3)K-mTOR-p70S6K pathway. <i>Nature Immunology</i> , 2008, 9, 1157-1164.	14.5	346
115	Case of Yellow Fever Vaccine-Associated Viscerotropic Disease with Prolonged Viremia, Robust Adaptive Immune Responses, and Polymorphisms in CCR5 and RANTES Genes. <i>Journal of Infectious Diseases</i> , 2008, 198, 500-507.	4.0	114
116	Adjuvanting a DNA vaccine with a TLR9 ligand plus Flt3 ligand results in enhanced cellular immunity against the simian immunodeficiency virus. <i>Journal of Experimental Medicine</i> , 2007, 204, 2733-2746.	8.5	74
117	The science of adjuvants. <i>Expert Review of Vaccines</i> , 2007, 6, 673-684.	4.4	99
118	Lamina propria macrophages and dendritic cells differentially induce regulatory and interleukin 17-producing T cell responses. <i>Nature Immunology</i> , 2007, 8, 1086-1094.	14.5	932
119	Translating Innate Immunity into Immunological Memory: Implications for Vaccine Development. <i>Cell</i> , 2006, 124, 849-863.	28.9	564
120	Yellow fever vaccine YF-17D activates multiple dendritic cell subsets via TLR2, 7, 8, and 9 to stimulate polyvalent immunity. <i>Journal of Experimental Medicine</i> , 2006, 203, 413-424.	8.5	474
121	Variegation of the Immune Response with Dendritic Cells and Pathogen Recognition Receptors. <i>Journal of Immunology</i> , 2005, 174, 2457-2465.	0.8	149
122	Modulating vaccine responses with dendritic cells and Toll-like receptors. <i>Immunological Reviews</i> , 2004, 199, 227-250.	6.0	278
123	Impairment of dendritic cells and adaptive immunity by anthrax lethal toxin. <i>Nature</i> , 2003, 424, 329-334.	27.8	282
124	Modulating the immune response with dendritic cells and their growth factors. <i>Trends in Immunology</i> , 2001, 22, 41-47.	6.8	257
125	Mice lacking flt3 ligand have deficient hematopoiesis affecting hematopoietic progenitor cells, dendritic cells, and natural killer cells. <i>Blood</i> , 2000, 95, 3489-3497.	1.4	769