

Bali Pulendran

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130 papers	16,427 citations	61 h-index	128 g-index
144 ext. papers	20,971 ext. citations	19.2 avg, IF	6.92 L-index

#	Paper	IF	Citations
130	Durability of immune responses to the BNT162b2 mRNA vaccine.. <i>Med</i> , 2022 , 3, 25-27	31.7	8
129	Immune imprinting, breadth of variant recognition, and germinal center response in human SARS-CoV-2 infection and vaccination.. <i>Cell</i> , 2022 ,	56.2	32
128	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.. <i>Science Translational Medicine</i> , 2022 , 14, eabm7853	17.5	10
127	A molecular atlas of innate immunity to adjuvanted and live attenuated vaccines, in mice.. <i>Nature Communications</i> , 2022 , 13, 549	17.4	2
126	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 ,	15.4	5
125	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	17.5	26
124	Mechanisms of innate and adaptive immunity to the Pfizer-BioNTech BNT162b2 vaccine.. <i>Nature Immunology</i> , 2022 ,	19.1	11
123	Epigenetic adjuvants: durable reprogramming of the innate immune systemsy with adjuvants.. <i>Current Opinion in Immunology</i> , 2022 , 77, 102189	7.8	1
122	Natural resistance against infections: focus on COVID-19.. <i>Trends in Immunology</i> , 2021 ,	14.4	5
121	Direct comparison of antibody responses to four SARS-CoV-2 vaccines in Mongolia. <i>Cell Host and Microbe</i> , 2021 , 29, 1738-1743.e4	23.4	13
120	Hydrogel-Based Slow Release of a Receptor-Binding Domain Subunit Vaccine Elicits Neutralizing Antibody Responses Against SARS-CoV-2. <i>Advanced Materials</i> , 2021 , e2104362	24	6
119	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines 2021 ,		12
118	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , 2021 , 594, 253-258	50.4	92
117	Emerging concepts in the science of vaccine adjuvants. <i>Nature Reviews Drug Discovery</i> , 2021 , 20, 454-475	54.1	115
116	A system-view of Bordetella pertussis booster vaccine responses in adults primed with whole-cell versus acellular vaccine in infancy. <i>JCI Insight</i> , 2021 , 6,	9.9	2
115	Divergent early antibody responses define COVID-19 disease trajectories 2021 ,		3
114	Modulation of immune responses to vaccination by the microbiota: implications and potential mechanisms. <i>Nature Reviews Immunology</i> , 2021 ,	36.5	26

113	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. <i>Cell</i> , 2021 , 184, 3915-3935.e21	56.2	23
112	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. <i>Nature</i> , 2021 , 596, 410-416	50.4	67
111	Systems Biological Analysis of Immune Response to Influenza Vaccination. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2021 , 11,	5.4	5
110	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	7.6	9
109	Auto-antibodies to type I IFNs can underlie adverse reactions to yellow fever live attenuated vaccine. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	49
108	Adjuvanting a subunit SARS-CoV-2 nanoparticle vaccine to induce protective immunity in non-human primates 2021 ,		7
107	Immunophenotyping assessment in a COVID-19 cohort (IMPACC): A prospective longitudinal study. <i>Science Immunology</i> , 2021 , 6,	28	2
106	Designing spatial and temporal control of vaccine responses. <i>Nature Reviews Materials</i> , 2021 , 1-22	73.3	16
105	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021 , 184, 5432-5447.e16	56.2	34
104	Persistence of Varicella-Zoster Virus-Specific Plasma Cells in Adult Human Bone Marrow following Childhood Vaccination. <i>Journal of Virology</i> , 2020 , 94,	6.6	9
103	T cell-inducing vaccine durably prevents mucosal SHIV infection even with lower neutralizing antibody titers. <i>Nature Medicine</i> , 2020 , 26, 932-940	50.5	60
102	Emerging technologies for systems vaccinology - multi-omics integration and single-cell (epi)genomic profiling. <i>Current Opinion in Immunology</i> , 2020 , 65, 57-64	7.8	11
101	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,	28	38
100	Squalene emulsion-based vaccine adjuvants stimulate CD8 T cell, but not antibody responses, through a RIPK3-dependent pathway. <i>ELife</i> , 2020 , 9,	8.9	15
99	Vaccine innovations for emerging infectious diseases-a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020 , 1462, 14-26	6.5	10
98	Systems Biological Approaches for Mucosal Vaccine Development 2020 , 753-772		2
97	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	11.5	25
96	The immunology of SARS-CoV-2 infections and vaccines. <i>Seminars in Immunology</i> , 2020 , 50, 101422	10.7	41

95	The Impact of the Microbiome on Immunity to Vaccination in Humans. <i>Cell Host and Microbe</i> , 2020 , 28, 169-179	23.4	50
94	Systems biological assessment of immunity to mild versus severe COVID-19 infection in humans. <i>Science</i> , 2020 , 369, 1210-1220	33.3	485
93	The science and medicine of human immunology. <i>Science</i> , 2020 , 369,	33.3	54
92	Injectable Hydrogels for Sustained Codelivery of Subunit Vaccines Enhance Humoral Immunity. <i>ACS Central Science</i> , 2020 , 6, 1800-1812	16.8	38
91	N6-Methyladenosine Modification Controls Circular RNA Immunity. <i>Molecular Cell</i> , 2019 , 76, 96-109.e9	17.6	207
90	Antibiotics-Driven Gut Microbiome Perturbation Alters Immunity to Vaccines in Humans. <i>Cell</i> , 2019 , 178, 1313-1328.e13	56.2	205
89	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,	6.6	10
88	STAT5: a Target of Antagonism by Neurotropic Flaviviruses. <i>Journal of Virology</i> , 2019 , 93,	6.6	10
87	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,	6.6	9
86	Understanding the immunology of the Zostavax shingles vaccine. <i>Current Opinion in Immunology</i> , 2019 , 59, 25-30	7.8	15
85	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,	9.9	31
84	Systems Vaccinology for a Live Attenuated Tularemia Vaccine Reveals Unique Transcriptional Signatures That Predict Humoral and Cellular Immune Responses. <i>Vaccines</i> , 2019 , 8,	5.3	12
83	Immunology taught by vaccines. <i>Science</i> , 2019 , 366, 1074-1075	33.3	10
82	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	14.4	37
81	Will Systems Biology Deliver Its Promise and Contribute to the Development of New or Improved Vaccines? From Data to Understanding through Systems Biology. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018 , 10,	10.2	23
80	Breadth and Functionality of Varicella-Zoster Virus Glycoprotein-Specific Antibodies Identified after Zostavax Vaccination in Humans. <i>Journal of Virology</i> , 2018 , 92,	6.6	15
79	Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. <i>PLoS Pathogens</i> , 2018 , 14, e1006913	7.6	78
78	The potential of the microbiota to influence vaccine responses. <i>Journal of Leukocyte Biology</i> , 2018 , 103, 225-231	6.5	39

77	Th1/Th17 polarization persists following whole-cell pertussis vaccination despite repeated acellular boosters. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3853-3865	15.9	61
76	B Cell Competition for Restricted T Cell Help Suppresses Rare-Epitope Responses. <i>Cell Reports</i> , 2018 , 25, 321-327.e3	10.6	24
75	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	11.5	167
74	Metabolic Phenotypes of Response to Vaccination in Humans. <i>Cell</i> , 2017 , 169, 862-877.e17	56.2	157
73	Adjuvanting a Simian Immunodeficiency Virus Vaccine with Toll-Like Receptor Ligands Encapsulated in Nanoparticles Induces Persistent Antibody Responses and Enhanced Protection in TRIM5 α Restrictive Macaques. <i>Journal of Virology</i> , 2017 , 91,	6.6	58
72	Cell type discovery and representation in the era of high-content single cell phenotyping. <i>BMC Bioinformatics</i> , 2017 , 18, 559	3.6	36
71	Multicohort analysis reveals baseline transcriptional predictors of influenza vaccination responses. <i>Science Immunology</i> , 2017 , 2,	28	66
70	mTOR regulates metabolic adaptation of APCs in the lung and controls the outcome of allergic inflammation. <i>Science</i> , 2017 , 357, 1014-1021	33.3	68
69	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, 8842-54	6.6	25
68	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	10.6	110
67	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	5.3	89
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, 1853-8	11.5	111
65	The amino acid sensor GCN2 controls gut inflammation by inhibiting inflammasome activation. <i>Nature</i> , 2016 , 531, 523-527	50.4	152
64	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, 2702-7	11.5	204
63	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, 1880-7	6.6	14
62	Zika Virus Infects Human Placental Macrophages. <i>Cell Host and Microbe</i> , 2016 , 20, 83-90	23.4	315
61	Sequential Infection with Common Pathogens Promotes Human-like Immune Gene Expression and Altered Vaccine Response. <i>Cell Host and Microbe</i> , 2016 , 19, 713-9	23.4	144
60	Refined protocol for generating monoclonal antibodies from single human and murine B cells. <i>Journal of Immunological Methods</i> , 2016 , 438, 67-70	2.5	44

59	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, 3050-5	11.5	84
58	Liver fibrosis occurs through dysregulation of MyD88-dependent innate B-cell activity. <i>Hepatology</i> , 2015 , 61, 2067-79	11.2	46
57	Low doses of imatinib induce myelopoiesis and enhance host anti-microbial immunity. <i>PLoS Pathogens</i> , 2015 , 11, e1004770	7.6	49
56	Systems vaccinology: Enabling rational vaccine design with systems biological approaches. <i>Vaccine</i> , 2015 , 33, 5294-301	4.1	75
55	Vaccinology in the era of high-throughput biology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	46
54	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, 8130-51	6.6	20
53	Systems Analysis of Immunity to Influenza Vaccination across Multiple Years and in Diverse Populations Reveals Shared Molecular Signatures. <i>Immunity</i> , 2015 , 43, 1186-98	32.3	176
52	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	2.5	32
51	The varieties of immunological experience: of pathogens, stress, and dendritic cells. <i>Annual Review of Immunology</i> , 2015 , 33, 563-606	34.7	84
50	Molecular signatures of antibody responses derived from a systems biology study of five human vaccines. <i>Nature Immunology</i> , 2014 , 15, 195-204	19.1	429
49	Vaccine activation of the nutrient sensor GCN2 in dendritic cells enhances antigen presentation. <i>Science</i> , 2014 , 343, 313-317	33.3	154
48	TLR5-mediated sensing of gut microbiota is necessary for antibody responses to seasonal influenza vaccination. <i>Immunity</i> , 2014 , 41, 478-492	32.3	326
47	Dengue virus infection induces expansion of a CD14(+)CD16(+) monocyte population that stimulates plasmablast differentiation. <i>Cell Host and Microbe</i> , 2014 , 16, 115-27	23.4	157
46	Emerging functions of the unfolded protein response in immunity. <i>Nature Immunology</i> , 2014 , 15, 910-9	19.1	156
45	Systems analysis of West Nile virus infection. <i>Current Opinion in Virology</i> , 2014 , 6, 70-5	7.5	9
44	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, 12300-6	11.5	114
43	Broadly reactive human CD8 T cells that recognize an epitope conserved between VZV, HSV and EBV. <i>PLoS Pathogens</i> , 2014 , 10, e1004008	7.6	30
42	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	10.6	28

41	Immunity to viruses: learning from successful human vaccines. <i>Immunological Reviews</i> , 2013 , 255, 243-55	11.3	63
40	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, 309-21	32.3	88
39	Systems biology of vaccination in the elderly. <i>Current Topics in Microbiology and Immunology</i> , 2013 , 363, 117-42	3.3	24
38	Predicting network activity from high throughput metabolomics. <i>PLoS Computational Biology</i> , 2013 , 9, e1003123	5	431
37	New paradigms in type 2 immunity. <i>Science</i> , 2012 , 337, 431-5	33.3	319
36	Identifying gnostic predictors of the vaccine response. <i>Current Opinion in Immunology</i> , 2012 , 24, 332-6	7.8	15
35	A Blueprint for HIV Vaccine Discovery. <i>Cell Host and Microbe</i> , 2012 , 12, 396-407	23.4	302
34	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	65
33	Distinct TLR adjuvants differentially stimulate systemic and local innate immune responses in nonhuman primates. <i>Blood</i> , 2012 , 119, 2044-55	2.2	101
32	Systems vaccinology: its promise and challenge for HIV vaccine development. <i>Current Opinion in HIV and AIDS</i> , 2012 , 7, 24-31	4.2	43
31	Systems biology of vaccination for seasonal influenza in humans. <i>Nature Immunology</i> , 2011 , 12, 786-95	19.1	589
30	Dendritic cell control of tolerogenic responses. <i>Immunological Reviews</i> , 2011 , 241, 206-27	11.3	252
29	Immunological mechanisms of vaccination. <i>Nature Immunology</i> , 2011 , 12, 509-17	19.1	621
28	Programming the magnitude and persistence of antibody responses with innate immunity. <i>Nature</i> , 2011 , 470, 543-7	50.4	703
27	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, 733-47	5.3	257
26	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	33.3	
25	Learning vaccinology from viral infections. <i>Journal of Experimental Medicine</i> , 2011 , 208, 2347-9	16.6	10
24	The T helper type 2 response to cysteine proteases requires dendritic cell-basophil cooperation via ROS-mediated signaling. <i>Nature Immunology</i> , 2010 , 11, 608-17	19.1	260

23	Programming dendritic cells to induce T(H)2 and tolerogenic responses. <i>Nature Immunology</i> , 2010 , 11, 647-55	19.1	276
22	A versatile role of mammalian target of rapamycin in human dendritic cell function and differentiation. <i>Journal of Immunology</i> , 2010 , 185, 3919-31	5.3	171
21	Activation of beta-catenin in dendritic cells regulates immunity versus tolerance in the intestine. <i>Science</i> , 2010 , 329, 849-53	33.3	413
20	Systems vaccinology. <i>Immunity</i> , 2010 , 33, 516-29	32.3	283
19	Regional localization of intestinal dendritic cell subsets control Th-17 responses. <i>FASEB Journal</i> , 2010 , 24, 355.7	0.9	
18	Systems biology approach predicts immunogenicity of the yellow fever vaccine in humans. <i>Nature Immunology</i> , 2009 , 10, 116-125	19.1	817
17	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, 401-9	50.5	250
16	Learning immunology from the yellow fever vaccine: innate immunity to systems vaccinology. <i>Nature Reviews Immunology</i> , 2009 , 9, 741-7	36.5	206
15	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, 1157-64	19.1	305
14	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, 500-7	7	97
13	Lamina propria macrophages and dendritic cells differentially induce regulatory and interleukin 17-producing T cell responses. <i>Nature Immunology</i> , 2007 , 8, 1086-94	19.1	813
12	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, 2733-46	16.6	67
11	The science of adjuvants. <i>Expert Review of Vaccines</i> , 2007 , 6, 673-84	5.2	87
10	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, 413-24	16.6	426
9	Translating innate immunity into immunological memory: implications for vaccine development. <i>Cell</i> , 2006 , 124, 849-63	56.2	489
8	Variegation of the immune response with dendritic cells and pathogen recognition receptors. <i>Journal of Immunology</i> , 2005 , 174, 2457-65	5.3	140
7	Modulating vaccine responses with dendritic cells and Toll-like receptors. <i>Immunological Reviews</i> , 2004 , 199, 227-50	11.3	259
6	Impairment of dendritic cells and adaptive immunity by anthrax lethal toxin. <i>Nature</i> , 2003 , 424, 329-34	50.4	256

5	Modulating the immune response with dendritic cells and their growth factors. <i>Trends in Immunology</i> , 2001 , 22, 41-7	14.4	239
4	Mice lacking flt3 ligand have deficient hematopoiesis affecting hematopoietic progenitor cells, dendritic cells, and natural killer cells. <i>Blood</i> , 2000 , 95, 3489-3497	2.2	691
3	Injectable hydrogels for sustained co-delivery of subunit vaccines enhance humoral immunity		1
2	Safety, immunogenicity and protection provided by unadjuvanted and adjuvanted formulations of recombinant plant-derived virus-like particle vaccine candidate for COVID-19 in non-human primates		2
1	Durability of immune responses to the BNT162b2 mRNA vaccine		4