

Manish Butte

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4545499/publications.pdf>

Version: 2024-02-01

123
papers

15,861
citations

57758

44
h-index

20961

115
g-index

141
all docs

141
docs citations

141
times ranked

26542
citing authors

#	ARTICLE	IF	CITATIONS
1	PD-1 and Its Ligands in Tolerance and Immunity. Annual Review of Immunology, 2008, 26, 677-704.	21.8	4,462
2	Patterned Paper as a Platform for Inexpensive, Low-Volume, Portable Bioassays. Angewandte Chemie - International Edition, 2007, 46, 1318-1320.	13.8	2,442
3	Programmed Death-1 Ligand 1 Interacts Specifically with the B7-1 Costimulatory Molecule to Inhibit T Cell Responses. Immunity, 2007, 27, 111-122.	14.3	1,464
4	Patient-Specific Induced Pluripotent Stem Cells as a Model for Familial Dilated Cardiomyopathy. Science Translational Medicine, 2012, 4, 130ra47.	12.4	590
5	TIM-1 and TIM-4 Glycoproteins Bind Phosphatidylserine and Mediate Uptake of Apoptotic Cells. Immunity, 2007, 27, 927-940.	14.3	536
6	Epicardial FSTL1 reconstitution regenerates the adult mammalian heart. Nature, 2015, 525, 479-485.	27.8	402
7	Differential fates of biomolecules delivered to target cells via extracellular vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1433-42.	7.1	378
8	Topological and phenomenological classification of bursting oscillations. Bulletin of Mathematical Biology, 1995, 57, 413-439.	1.9	235
9	Thread as a Matrix for Biomedical Assays. ACS Applied Materials & Interfaces, 2010, 2, 1722-1728.	8.0	224
10	Endothelial Programmed Death-1 Ligand 1 (PD-L1) Regulates CD8 ⁺ T-Cell-Mediated Injury in the Heart. Circulation, 2007, 116, 2062-2071.	1.6	221
11	Interaction of human PD-L1 and B7-1. Molecular Immunology, 2008, 45, 3567-3572.	2.2	219
12	Strain-enhanced stress relaxation impacts nonlinear elasticity in collagen gels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5492-5497.	7.1	217
13	Adult enteric nervous system in health is maintained by a dynamic balance between neuronal apoptosis and neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3709-E3718.	7.1	208
14	The Role of the Anti-Inflammatory Cytokine Interleukin-10 in Tissue Fibrosis. Advances in Wound Care, 2020, 9, 184-198.	5.1	203
15	A Global Effort to Define the Human Genetics of Protective Immunity to SARS-CoV-2 Infection. Cell, 2020, 181, 1194-1199.	28.9	185
16	The effect of bioengineered acellular collagen patch on cardiac remodeling and ventricular function post myocardial infarction. Biomaterials, 2013, 34, 9048-9055.	11.4	168
17	T cell activation requires force generation. Journal of Cell Biology, 2016, 213, 535-542.	5.2	164
18	Broad-spectrum antibodies against self-antigens and cytokines in RAG deficiency. Journal of Clinical Investigation, 2015, 125, 4135-4148.	8.2	159

#	ARTICLE	IF	CITATIONS
19	Newborn Screening for Severe Combined Immunodeficiency and T-cell Lymphopenia in California, 2010â€“2017. <i>Pediatrics</i> , 2019, 143, .	2.1	148
20	Diagnostic utility of transcriptome sequencing for rare Mendelian diseases. <i>Genetics in Medicine</i> , 2020, 22, 490-499.	2.4	136
21	Quantitative Deformability Cytometry: Rapid, Calibrated Measurements of Cell Mechanical Properties. <i>Biophysical Journal</i> , 2017, 113, 1574-1584.	0.5	112
22	Atomic Force Mechanobiology of Pluripotent Stem Cell-Derived Cardiomyocytes. <i>PLoS ONE</i> , 2012, 7, e37559.	2.5	106
23	Dependence of Avidity on Linker Length for a Bivalent Ligandâ€“Bivalent Receptor Model System. <i>Journal of the American Chemical Society</i> , 2012, 134, 333-345.	13.7	103
24	Characterization of T and B cell repertoire diversity in patients with RAG deficiency. <i>Science Immunology</i> , 2016, 1, .	11.9	88
25	PRKDC mutations associated with immunodeficiency, granuloma, and autoimmune regulatorâ€“dependent autoimmunity. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 1578-1588.e5.	2.9	84
26	CRISPR-based gene editing enables <i>FOXP3</i> gene repair in IPEX patient cells. <i>Science Advances</i> , 2020, 6, eaaz0571.	10.3	84
27	Cell Encapsulation in Sub-mm Sized Gel Modules Using Replica Molding. <i>PLoS ONE</i> , 2008, 3, e2258.	2.5	77
28	Polyvinylpyrrolidone microneedles enable delivery of intact proteins for diagnostic and therapeutic applications. <i>Acta Biomaterialia</i> , 2013, 9, 7767-7774.	8.3	72
29	Hyaluronan synthesis is necessary for autoreactive T-cell trafficking, activation, and Th1 polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1339-1344.	7.1	65
30	Cytoskeletal adaptivity regulates T cell receptor signaling. <i>Science Signaling</i> , 2017, 10, .	3.6	65
31	Outcomes and Treatment Strategies for Autoimmunity and Hyperinflammation in Patients with RAG Deficiency. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 1970-1985.e4.	3.8	64
32	Dominant-negative mutations in human <i>IL6ST</i> underlie hyper-IgE syndrome. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	64
33	A comprehensive iterative approach is highly effective in diagnosing individuals who are exome negative. <i>Genetics in Medicine</i> , 2019, 21, 161-172.	2.4	60
34	T-cell activation is modulated by the 3D mechanical microenvironment. <i>Biomaterials</i> , 2020, 252, 120058.	11.4	60
35	Crystal Structure of Neurotrophin-3 Homodimer Shows Distinct Regions Are Used To Bind Its Receptors. <i>Biochemistry</i> , 1998, 37, 16846-16852.	2.5	59
36	Interleukinâ€“10â€“mediated regenerative postnatal tissue repair is dependent on regulation of hyaluronan metabolism <i>via</i> fibroblastâ€“specific STAT3 signaling. <i>FASEB Journal</i> , 2017, 31, 868-881.	0.5	59

#	ARTICLE	IF	CITATIONS
37	Lysosomal Storage and Albinism Due to Effects of a De Novo CLCN7 Variant on Lysosomal Acidification. <i>American Journal of Human Genetics</i> , 2019, 104, 1127-1138.	6.2	59
38	Mechanosensing through YAP controls T cell activation and metabolism. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	57
39	YAP-dependent mechanotransduction is required for proliferation and migration on native-like substrate topography. <i>Biomaterials</i> , 2017, 115, 155-166.	11.4	55
40	Unraveling the mechanobiology of immune cells. <i>Current Opinion in Biotechnology</i> , 2020, 66, 236-245.	6.6	55
41	T Lymphocytes Attenuate Dermal Scarring by Regulating Inflammation, Neovascularization, and Extracellular Matrix Remodeling. <i>Advances in Wound Care</i> , 2019, 8, 527-537.	5.1	54
42	Spectrum of neurodevelopmental disease associated with the GNAO1 guanosine triphosphate-binding region. <i>Epilepsia</i> , 2019, 60, 406-418.	5.1	53
43	Heterozygous FOXP1 Variants Cause Low TRECs and Severe T Cell Lymphopenia, Revealing a Crucial Role of FOXP1 in Supporting Early Thymopoiesis. <i>American Journal of Human Genetics</i> , 2019, 105, 549-561.	6.2	52
44	Pediatric Myocardial Infarction After Racemic Epinephrine Administration. <i>Pediatrics</i> , 1999, 104, e9-e9.	2.1	51
45	CD28 Costimulation Regulates Genome-Wide Effects on Alternative Splicing. <i>PLoS ONE</i> , 2012, 7, e40032.	2.5	51
46	Immunomodulatory microneedle patch for periodontal tissue regeneration. <i>Matter</i> , 2022, 5, 666-682.	10.0	49
47	Massively scaled-up testing for SARS-CoV-2 RNA via next-generation sequencing of pooled and barcoded nasal and saliva samples. <i>Nature Biomedical Engineering</i> , 2021, 5, 657-665.	22.5	46
48	NKp46 Clusters at the Immune Synapse and Regulates NK Cell Polarization. <i>Frontiers in Immunology</i> , 2015, 6, 495.	4.8	43
49	De Novo Variants in WDR37 Are Associated with Epilepsy, Colobomas, Dysmorphism, Developmental Delay, Intellectual Disability, and Cerebellar Hypoplasia. <i>American Journal of Human Genetics</i> , 2019, 105, 413-424.	6.2	43
50	Human Amniotic Mesenchymal Stem Cell-Derived Induced Pluripotent Stem Cells May Generate a Universal Source of Cardiac Cells. <i>Stem Cells and Development</i> , 2012, 21, 2798-2808.	2.1	42
51	Partial Loss of USP9X Function Leads to a Male Neurodevelopmental and Behavioral Disorder Converging on Transforming Growth Factor β Signaling. <i>Biological Psychiatry</i> , 2020, 87, 100-112.	1.3	42
52	Prevalence and clinical challenges among adults with primary immunodeficiency and recombination-activating gene deficiency. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 2303-2306.	2.9	40
53	Real-time GPU-based 3D Deconvolution. <i>Optics Express</i> , 2013, 21, 4766.	3.4	39
54	Hyaluronan content governs tissue stiffness in pancreatic islet inflammation. <i>Journal of Biological Chemistry</i> , 2018, 293, 567-578.	3.4	38

#	ARTICLE	IF	CITATIONS
55	Multiplexed Functional Assessment of Genetic Variants in CARD11. <i>American Journal of Human Genetics</i> , 2020, 107, 1029-1043.	6.2	38
56	De novo EIF2AK1 and EIF2AK2 Variants Are Associated with Developmental Delay, Leukoencephalopathy, and Neurologic Decompensation. <i>American Journal of Human Genetics</i> , 2020, 106, 570-583.	6.2	37
57	Disseminated Coccidioidomycosis Treated with Interferon- β and Dupilumab. <i>New England Journal of Medicine</i> , 2020, 382, 2337-2343.	27.0	36
58	Infections in Infants with SCID: Isolation, Infection Screening, and Prophylaxis in PIDTC Centers. <i>Journal of Clinical Immunology</i> , 2021, 41, 38-50.	3.8	36
59	Apelin Enhances Directed Cardiac Differentiation of Mouse and Human Embryonic Stem Cells. <i>PLoS ONE</i> , 2012, 7, e38328.	2.5	36
60	Augmentation of T-Cell Activation by Oscillatory Forces and Engineered Antigen-Presenting Cells. <i>Nano Letters</i> , 2019, 19, 6945-6954.	9.1	32
61	Multi-cellular interactions sustain long-term contractility of human pluripotent stem cell-derived cardiomyocytes. <i>American Journal of Translational Research (discontinued)</i> , 2014, 6, 724-35.	0.0	32
62	Winner of the Young Investigator Award of the Society for Biomaterials at the 10th World Biomaterials Congress, May 17-22, 2016, Montreal QC, Canada: Microribbon-based hydrogels accelerate stem cell-based bone regeneration in a mouse critical-size cranial defect model. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1321-1331.	4.0	31
63	Modified High-Molecular-Weight Hyaluronan Promotes Allergen-Specific Immune Tolerance. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 109-120.	2.9	30
64	De Novo Pathogenic Variants in N-cadherin Cause a Syndromic Neurodevelopmental Disorder with Corpus Callosum, Axon, Cardiac, Ocular, and Genital Defects. <i>American Journal of Human Genetics</i> , 2019, 105, 854-868.	6.2	29
65	IL-7 receptor deficient SCID with a unique intronic mutation and post-transplant autoimmunity due to chronic GVHD. <i>Clinical Immunology</i> , 2007, 125, 159-164.	3.2	28
66	Bi-allelic Variants in TONSL Cause SPONASTRIME Dysplasia and a Spectrum of Skeletal Dysplasia Phenotypes. <i>American Journal of Human Genetics</i> , 2019, 104, 422-438.	6.2	27
67	Treatment of CGD-associated Colitis with the IL-23 Blocker Ustekinumab. <i>Journal of Clinical Immunology</i> , 2016, 36, 619-620.	3.8	25
68	Cytokine Secreting Microparticles Engineer the Fate and the Effector Functions of T Cells. <i>Advanced Materials</i> , 2018, 30, 1703178.	21.0	25
69	Case Study: Mechanism for Increased Follicular Helper T Cell Development in Activated PI3K Delta Syndrome. <i>Frontiers in Immunology</i> , 2019, 10, 753.	4.8	25
70	Functional studies of the BTB domain in the Drosophila GAGA and Mod(mdg4) proteins. <i>Nucleic Acids Research</i> , 2000, 28, 3864-3870.	14.5	24
71	Neurotrophic factor structures reveal clues to evolution, binding, specificity, and receptor activation. <i>Cellular and Molecular Life Sciences</i> , 2001, 58, 1003-1013.	5.4	23
72	Fast Stiffness Mapping of Cells Using High-Bandwidth Atomic Force Microscopy. <i>ACS Nano</i> , 2016, 10, 257-264.	14.6	23

#	ARTICLE	IF	CITATIONS
73	Use of bio-mimetic three-dimensional technology in therapeutics for heart disease. <i>Bioengineered</i> , 2014, 5, 193-197.	3.2	20
74	Heterozygous variants in <i>MYBPC1</i> are associated with an expanded neuromuscular phenotype beyond arthrogryposis. <i>Human Mutation</i> , 2019, 40, 1115-1126.	2.5	19
75	Clinical sites of the Undiagnosed Diseases Network: unique contributions to genomic medicine and science. <i>Genetics in Medicine</i> , 2021, 23, 259-271.	2.4	18
76	Biallelic <i>PI4KA</i> variants cause neurological, intestinal and immunological disease. <i>Brain</i> , 2021, 144, 3597-3610.	7.6	17
77	Commonalities across computational workflows for uncovering explanatory variants in undiagnosed cases. <i>Genetics in Medicine</i> , 2021, 23, 1075-1085.	2.4	16
78	Early infantile epileptic encephalopathy due to biallelic pathogenic variants in <i>PIGQ</i> : Report of seven new subjects and review of the literature. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 1321-1332.	3.6	15
79	Differential Contributions of Actin and Myosin to the Physical Phenotypes and Invasion of Pancreatic Cancer Cells. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 27-44.	2.1	13
80	When Screening for Severe Combined Immunodeficiency (SCID) with T Cell Receptor Excision Circles Is Not SCID: a Case-Based Review. <i>Journal of Clinical Immunology</i> , 2021, 41, 294-302.	3.8	13
81	Pre-existing conditions in Hispanics/Latinxs that are COVID-19 risk factors. <i>IScience</i> , 2021, 24, 102188.	4.1	13
82	Counting cells with a low-cost integrated microfluidics-waveguide sensor. <i>Biomicrofluidics</i> , 2012, 6, 14115-141154.	2.4	11
83	A toolkit for genetics providers in follow-up of patients with non-diagnostic exome sequencing. <i>Journal of Genetic Counseling</i> , 2019, 28, 213-228.	1.6	11
84	Detection of a mosaic <i>CDKL5</i> deletion and inversion by optical genome mapping ends an exhaustive diagnostic odyssey. <i>Molecular Genetics & Genomic Medicine</i> , 2021, 9, e1665.	1.2	11
85	Pentobarbital desensitization in a 3-month-old child. <i>Allergy and Asthma Proceedings</i> , 2004, 25, 225-7.	2.2	11
86	Spatiotemporally and mechanically controlled triggering of mast cells using atomic force microscopy. <i>Immunologic Research</i> , 2014, 58, 211-217.	2.9	10
87	Treatment of systemic mastocytosis in an infant with midostaurin. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 2929-2931.e1.	3.8	10
88	The New "Wholly Trinity" in the Diagnosis and Management of Inborn Errors of Immunity. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 613-625.	3.8	10
89	Variants in <i>PRKAR1B</i> cause a neurodevelopmental disorder with autism spectrum disorder, apraxia, and insensitivity to pain. <i>Genetics in Medicine</i> , 2021, 23, 1465-1473.	2.4	10
90	Customized atomic force microscopy probe by focused-ion-beam-assisted tip transfer. <i>Applied Physics Letters</i> , 2014, 105, 053101.	3.3	9

#	ARTICLE	IF	CITATIONS
91	Compound Heterozygous Mutation of Rag1 Leading to Omenn Syndrome. PLoS ONE, 2015, 10, e0121489.	2.5	9
92	Host-Pathogen Interactions in Coccidioidomycosis: Prognostic Clues and Opportunities for Novel Therapies. Clinical Therapeutics, 2019, 41, 1939-1954.e1.	2.5	9
93	Treatment with rituximab and brentuximab vedotin in a patient of common variable immune deficiency-associated classic Hodgkin lymphoma. Biomarker Research, 2016, 4, 7.	6.8	8
94	IgG4-related disease: Association with a rare gene variant expressed in cytotoxic T cells. Molecular Genetics & Genomic Medicine, 2019, 7, e686.	1.2	8
95	<i>DYRK1A</i> pathogenic variants in two patients with syndromic intellectual disability and a review of the literature. Molecular Genetics & Genomic Medicine, 2020, 8, e1544.	1.2	8
96	Taking T Cell Priming Down a Notch: Signaling through Notch Receptors Enhances T Cell Sensitivity to Antigen. Immunity, 2015, 42, 6-8.	14.3	7
97	High-Bandwidth AFM Probes for Imaging in Air and Fluid. Journal of Microelectromechanical Systems, 2013, 22, 603-612.	2.5	6
98	Measurement of elastic properties in fluid using high bandwidth atomic force microscope probes. Applied Physics Letters, 2013, 102, 103111.	3.3	6
99	Systems approach to uncover signaling networks in primary immunodeficiency diseases. Journal of Allergy and Clinical Immunology, 2017, 140, 881-884.e8.	2.9	6
100	Magnetic Resonance Imaging characteristics in case of TOR1AIP1 muscular dystrophy. Clinical Imaging, 2019, 58, 108-113.	1.5	6
101	Progressive B Cell Loss in Revertant X-SCID. Journal of Clinical Immunology, 2020, 40, 1001-1009.	3.8	5
102	MPEG1/Perforin-2 Haploinsufficiency Associated Polymicrobial Skin Infections and Considerations for Interferon- β Therapy. Frontiers in Immunology, 2020, 11, 601584.	4.8	5
103	Intact B-Cell Signaling and Function With Host B-Cells 47 Years After Transplantation for X-SCID. Frontiers in Immunology, 2020, 11, 415.	4.8	5
104	Single molecule labeling of an atomic force microscope cantilever tip. Applied Physics Letters, 2012, 101, 163705.	3.3	4
105	Optical planar waveguide for cell counting. Applied Physics Letters, 2012, 100, 43701-437015.	3.3	4
106	The Actin-Capping Protein Alpha-Adducin Is Required for T-Cell Costimulation. Frontiers in Immunology, 2019, 10, 2706.	4.8	4
107	CADINS in an Adult with Chronic Sinusitis and Atopic Disease. Journal of Clinical Immunology, 2021, 41, 256-258.	3.8	4
108	Augmenting T-cell responses to tumors by <i>in situ</i> nanomanufacturing. Materials Horizons, 2020, 7, 3028-3033.	12.2	3

#	ARTICLE	IF	CITATIONS
109	Commercial immunoglobulin products contain cross-reactive but not neutralizing antibodies against SARS-CoV-2. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 876-877.	2.9	3
110	Biochemical Stimulation of Immune Cells and Measurement of Mechanical Responses Using Atomic Force Microscopy. <i>Current Protocols in Chemical Biology</i> , 2019, 11, e63.	1.7	2
111	Miniature fiber facet atomic force microscope using photonic crystal sensors. , 2014, , .		1
112	Na ⁺ ve B cells are prone to develop into polyreactive autoantibody secreting cells from adult RAG2-deficient patient with combined immunodeficiency. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, AB22.	2.9	1
113	Expanding the potential genes of inborn errors of immunity through protein interactions. <i>BMC Genomics</i> , 2021, 22, 618.	2.8	1
114	Intravenous Immunoglobulin. , 2007, , 870-873.		0
115	Cytoskeletal Stiffness Controls the Threshold of T Cell Activation. <i>Biophysical Journal</i> , 2014, 106, 175a-176a.	0.5	0
116	Optical fiber atomic force microscope with photonic crystal force sensor. , 2015, , .		0
117	802 Identification of the True Adult Enteric Neural Precursor Provides Evidence of Robust Steady-State Neurogenesis in the Enteric Nervous System. <i>Gastroenterology</i> , 2016, 150, S169.	1.3	0
118	Dissecting the Role and Regulation of Mechanical Force at the T-APC Synapse using Atomic Force Microscopy. <i>Biophysical Journal</i> , 2016, 110, 134a.	0.5	0
119	Force Generation by T Cells Modulates the Strength of Activation. <i>Biophysical Journal</i> , 2017, 112, 172a.	0.5	0
120	Biologics and therapeutics. , 2020, , 1099-1111.		0
121	Chronic Rhinosinusitis in Pediatric Immunodeficiency. <i>Current Treatment Options in Allergy</i> , 2020, 7, 219-232.	2.2	0
122	T cell activation requires force generation. <i>Journal of Experimental Medicine</i> , 2016, 213, 2137OIA56.	8.5	0
123	An Updated Survey of SCID Outcomes Without Preconditioning Chemotherapy. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2022, 10, 1084-1085.	3.8	0