Michael A Brehm

List of Publications by Year
in descending order

121 papers	8,968 citations	31976 53 h-index	43889 91 g-index
125 all docs	125 docs citations	125 times ranked	12580 citing authors

#	Article	IF	Citations
1	Humanized mice for immune system investigation: progress, promise and challenges. Nature Reviews Immunology, 2012, 12, 786-798.	22.7	851
2	Humanized Mouse Models of Clinical Disease. Annual Review of Pathology: Mechanisms of Disease, 2017, 12, 187-215.	22.4	437
3	An epigenetic mechanism of resistance to targeted therapy in T cell acute lymphoblastic leukemia. Nature Genetics, 2014, 46, 364-370.	21.4	333
4	Heterologous immunity between viruses. Immunological Reviews, 2010, 235, 244-266.	6.0	272
5	Human 'brite/beige' adipocytes develop from capillary networks, and their implantation improves metabolic homeostasis in mice. Nature Medicine, 2016, 22, 312-318.	30.7	267
6	Humanized mice in studying efficacy and mechanisms of PDâ€1â€targeted cancer immunotherapy. FASEB Journal, 2018, 32, 1537-1549.	0.5	260
7	Memory CD8+ T cells in heterologous antiviral immunity and immunopathology in the lung. Nature Immunology, 2001, 2, 1067-1076.	14.5	236
8	T cell immunodominance and maintenance of memory regulated by unexpectedly cross-reactive pathogens. Nature Immunology, 2002, 3, 627-634.	14.5	236
9	Parameters for establishing humanized mouse models to study human immunity: Analysis of human hematopoietic stem cell engraftment in three immunodeficient strains of mice bearing the IL2rÎ³null mutation. Clinical Immunology, 2010, 135, 84-98.	3.2	225
10	Attrition of Bystander CD8 T Cells during Virus-Induced T-Cell and Interferon Responses. Journal of Virology, 2001, 75, 5965-5976.	3.4	181
11	Endoplasmic reticulum aminopeptidase 1 (ERAP1) trims MHC class I-presented peptides in vivo and plays an important role in immunodominance. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9202-9207.	7.1	171
12	Memory of mice and men: CD8 + Tâ€cell crossâ€reactivity and heterologous immunity. Immunological Reviews, 2006, 211, 164-181.	6.0	168
13	Retroviruses use CD169-mediated trans-infection of permissive lymphocytes to establish infection. Science, 2015, 350, 563-567.	12.6	155
14	Humanized mouse models to study human diseases. Current Opinion in Endocrinology, Diabetes and Obesity, 2010, 17, 120-125.	2.3	152
15	In vivo correction of anaemia in Î²-thalassemic mice by Î³PNA-mediated gene editing with nanoparticle delivery. Nature Communications, 2016, 7, 13304.	12.8	143
16	Virus-Induced Abrogation of Transplantation Tolerance Induced by Donor-Specific Transfusion and Anti-CD154 Antibody. Journal of Virology, 2000, 74, 2210-2218.	3.4	135
17	c-Myc inhibition prevents leukemia initiation in mice and impairs the growth of relapsed and induction failure pediatric T-ALL cells. Blood, 2014, 123, 1040-1050.	1.4	129
18	Overcoming Current Limitations in Humanized Mouse Research. Journal of Infectious Diseases, 2013, 208, S125-S130.	4.0	127

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19	Narrowed TCR repertoire and viral escape as a consequence of heterologous immunity. Journal of Clinical Investigation, 2006, 116, 1443-1456.	8.2	126
20	Direct Visualization of Cross-Reactive Effector and Memory Allo-Specific CD8 T Cells Generated in Response to Viral Infections. Journal of Immunology, 2003, 170, 4077-4086.	0.8	125
21	Generation of improved humanized mouse models for human infectious diseases. Journal of Immunological Methods, 2014, 410, 3-17.	1.4	124
22	TLR Agonists Abrogate Costimulation Blockade-Induced Prolongation of Skin Allografts. Journal of Immunology, 2006, 176, 1561-1570.	0.8	122
23	Humanized nonobese diabetic-scid IL2rÎ³^{null}mice are susceptible to lethalSalmonellaTyphi infection. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15589-15594.	7.1	122
24	CD8 memory T cells: cross-reactivity and heterologous immunity. Seminars in Immunology, 2004, 16, 335-347.	5.6	112
25	Immunization with a Single Major Histocompatibility Complex Class I-Restricted Cytotoxic T-Lymphocyte Recognition Epitope of Herpes Simplex Virus Type 2 Confers Protective Immunity. Journal of Virology, 1998, 72, 9567-9574.	3.4	105
26	Human immune system development and survival of non-obese diabetic (NOD)-scid IL2rÎ³null (NSG) mice engrafted with human thymus and autologous haematopoietic stem cells. Clinical and Experimental Immunology, 2013, 174, 372-388.	2.6	101
27	Graded Levels of IRF4 Regulate CD8+ T Cell Differentiation and Expansion, but Not Attrition, in Response to Acute Virus Infection. Journal of Immunology, 2014, 192, 5881-5893.	0.8	99
28	Lack of acute xenogeneic graftâ€versusâ€host disease, but retention of Tâ€cell function following engraftment of human peripheral blood mononuclear cells in NSG mice deficient in MHC class I and II expression. FASEB Journal, 2019, 33, 3137-3151.	0.5	99
29	Improved B cell development in humanized NODâ€scid IL2RÎ³^{null} mice transgenically expressing human stem cell factor, granulocyteâ€macrophage colonyâ€stimulating factor and interleukinâ€3. Immunity, Inflammation and Disease, 2016, 4, 427-440.	2.7	97
30	Dynamic glucoregulation and mammalian-like responses to metabolic and developmental disruption in zebrafish. General and Comparative Endocrinology, 2011, 170, 334-345.	1.8	96
31	Rapid Production of TNF-Î± following TCR Engagement of Naive CD8 T Cells. Journal of Immunology, 2005, 175, 5043-5049.	0.8	89
32	Human peripheral blood CD4 T cell-engrafted non-obese diabetic-scid IL2rÎ³null H2-Ab1 tm1GruTg (human leucocyte antigen D-related 4) mice: a mouse model of human allogeneic graft-versus-host disease. Clinical and Experimental Immunology, 2011, 166, 269-280.	2.6	88
33	Enhanced humoral and HLAâ€A2â€restricted dengue virusâ€specific Tâ€cell responses in humanized BLT NSG mice. Immunology, 2012, 136, 334-343.	4.4	88
34	Dynamics of Memory T Cell Proliferation Under Conditions of Heterologous Immunity and Bystander Stimulation. Journal of Immunology, 2002, 169, 90-98.	0.8	84
35	Innovations, challenges, and minimal information for standardization of humanized mice. EMBO Molecular Medicine, 2020, 12, e8662.	6.9	82
36	AK002, a Humanized Sialic Acid-Binding Immunoglobulin-Like Lectin-8 Antibody that Induces Antibody-Dependent Cell-Mediated Cytotoxicity against Human Eosinophils and Inhibits Mast Cell-Mediated Anaphylaxis in Mice. International Archives of Allergy and Immunology, 2019, 180, 91-102.	2.1	81

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37	Virus-Specific CD8 T Cells in Peripheral Tissues Are More Resistant to Apoptosis Than Those in Lymphoid Organs. Immunity, 2003, 18, 631-642.	14.3	80
38	Humanized mouse model of mast cellâ€“mediated passive cutaneous anaphylaxis and passive systemic anaphylaxis. Journal of Allergy and Clinical Immunology, 2016, 138, 769-779.	2.9	80
39	Engraftment of human HSCs in nonirradiated newborn NOD-scid IL2rÎ³null mice is enhanced by transgenic expression of membrane-bound human SCF. Blood, 2012, 119, 2778-2788.	1.4	76
40	Humanized mouse models of immunological diseases and precision medicine. Mammalian Genome, 2019, 30, 123-142.	2.2	76
41	CD8 T Cell Cross-Reactivity Networks Mediate Heterologous Immunity in Human EBV and Murine Vaccinia Virus Infections. Journal of Immunology, 2010, 184, 2825-2838.	0.8	75
42	Efficient and Targeted Transduction of Nonhuman Primate Liver With Systemically Delivered Optimized AAV3B Vectors. Molecular Therapy, 2015, 23, 1867-1876.	8.2	73
43	Durable Knockdown and Protection From HIV Transmission in Humanized Mice Treated With Gel-formulated CD4 Aptamer-siRNA Chimeras. Molecular Therapy, 2013, 21, 1378-1389.	8.2	70
44	NOD-scid IL2rÎ³null Mouse Model of Human Skin Transplantation and Allograft Rejection. Transplantation, 2010, 89, 527-536.	1.0	69
45	The Blk pathway functions as a tumor suppressor in chronic myeloid leukemia stem cells. Nature Genetics, 2012, 44, 861-871.	21.4	69
46	Tec Kinases Itk and Rlk Are Required for CD8+T Cell Responses to Virus Infection Independent of Their Role in CD4+T Cell Help. Journal of Immunology, 2006, 176, 1571-1581.	0.8	68
47	Human Immune System Development and Rejection of Human Islet Allografts in Spontaneously Diabetic NOD-Rag1null IL2rÎ³nullâ€ˆIns2Akita Mice. Diabetes, 2010, 59, 2265-2270.	0.6	68
48	Type 1 IFN Mediates Cross-Talk between Innate and Adaptive Immunity That Abrogates Transplantation Tolerance. Journal of Immunology, 2007, 179, 6620-6629.	0.8	65
49	Inflammation Mediated by JNK in Myeloid Cells Promotes the Development of Hepatitis and Hepatocellular Carcinoma. Cell Reports, 2016, 15, 19-26.	6.4	62
50	Survival Advantage of Both Human Hepatocyte Xenografts and Genome-Edited Hepatocytes for Treatment of Î±-1 Antitrypsin Deficiency. Molecular Therapy, 2017, 25, 2477-2489.	8.2	62
51	Humanized mice as a preclinical tool for infectious disease and biomedical research. Annals of the New York Academy of Sciences, 2011, 1245, 50-54.	3.8	59
52	Humanized mice for the study of infectious diseases. Current Opinion in Immunology, 2013, 25, 428-435.	5.5	59
53	Modeling Type 1 Diabetes InÂVitro Using Human Pluripotent Stem Cells. Cell Reports, 2020, 32, 107894.	6.4	55
54	CHOP Mediates Endoplasmic Reticulum Stress-Induced Apoptosis in Gimap5-Deficient T Cells. PLoS ONE, 2009, 4, e5468.	2.5	46

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55	Creation of PDX-Bearing Humanized Mice to Study Immuno-oncology. Methods in Molecular Biology, 2019, 1953, 241-252.	0.9	46
56	Generation of islet-like cells from mouse gall bladder by direct ex vivo reprogramming. Stem Cell Research, 2013, 11, 503-515.	0.7	44
57	Genome-wide Analysis of Salmonella enterica serovar Typhi in Humanized Mice Reveals Key Virulence Features. Cell Host and Microbe, 2019, 26, 426-434.e6.	11.0	42
58	Engrafted human cells generate adaptive immune responses to Mycobacterium bovis BCG infection in humanized mice. BMC Immunology, 2013, 14, 53.	2.2	41
59	Viral Infection of Engrafted Human Islets Leads to Diabetes. Diabetes, 2015, 64, 1358-1369.	0.6	41
60	Development of Novel Major Histocompatibility Complex Class I and Class II-Deficient NOD-SCID IL2R Gamma Chain Knockout Mice for Modeling Human Xenogeneic Graft-Versus-Host Disease. Methods in Molecular Biology, 2010, 602, 105-117.	0.9	39
61	Dengue virus infection induces broadly cross-reactive human IgM antibodies that recognize intact virions in humanized BLT-NSG mice. Experimental Biology and Medicine, 2015, 240, 67-78.	2.4	38
62	Site-specific Genome Editing in PBMCs With PLGA Nanoparticle-delivered PNAs Confers HIV-1 Resistance in Humanized Mice. Molecular Therapy - Nucleic Acids, 2013, 2, e135.	5.1	37
63	Frontiers in Nephrology: Heterologous Immunity, T Cell Cross-Reactivity, and Alloreactivity. Journal of the American Society of Nephrology: JASN, 2007, 18, 2268-2277.	6.1	35
64	Maturation-Dependent Licensing of Naive T Cells for Rapid TNF Production. PLoS ONE, 2010, 5, e15038.	2.5	35
65	Protection against Vaccinia Virus Challenge by CD8 Memory T Cells Resolved by Molecular Mimicry. Journal of Virology, 2007, 81, 934-944.	3.4	34
66	Generation of organized anterior foregut epithelia from pluripotent stem cells using small molecules. Stem Cell Research, 2013, 11, 1003-1012.	0.7	34
67	Consequences of Cross-Reactive and Bystander CTL Responses during Viral Infections. Virology, 2000, 270, 4-8.	2.4	33
68	CD8 T cell responses to viral infections in sequence. Cellular Microbiology, 2004, 6, 411-421.	2.1	33
69	Allografts Stimulate Cross-Reactive Virus-Specific Memory CD8 T Cells with Private Specificity. American Journal of Transplantation, 2010, 10, 1738-1748.	4.7	33
70	Human allograft rejection in humanized mice: a historical perspective. Cellular and Molecular Immunology, 2012, 9, 225-231.	10.5	33
71	Immunodeficient Mouse Model for Human Hematopoietic Stem Cell Engraftment and Immune System Development. Methods in Molecular Biology, 2014, 1185, 267-278.	0.9	32
72	Alloimmune Responses of Humanized Mice to Human Pluripotent Stem Cell Therapeutics. Cell Reports, 2017, 20, 1978-1990.	6.4	31

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73	Immunogenicity of Herpes Simplex Virus Type 1 Mutants Containing Deletions in One or More Î±-Genes: ICP4, ICP27, ICP22, and ICP0. Virology, 1999, 256, 258-269.	2.4	30
74	Advancing Animal Models of Human Type 1 Diabetes by Engraftment of Functional Human Tissues in Immunodeficient Mice. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a007757-a007757.	6.2	30
75	Cutting Edge:Dab2Is a FOXP3 Target Gene Required for Regulatory T Cell Function. Journal of Immunology, 2009, 183, 4192-4196.	0.8	29
76	Generation of Immunodeficient Mice Bearing Human Immune Systems by the Engraftment of Hematopoietic Stem Cells. Methods in Molecular Biology, 2016, 1438, 67-78.	0.9	29
77	A rapid, sensitive, and reproducible in vivo PBMC humanized murine model for determining therapeuticâ€related cytokine release syndrome. FASEB Journal, 2020, 34, 12963-12975.	0.5	28
78	Rapid Conversion of Effector Mechanisms from NK to T Cells during Virus-Induced Lysis of Allogeneic Implants In Vivo. Journal of Immunology, 2005, 174, 6663-6671.	0.8	27
79	Partial versus Full Allogeneic Hemopoietic Chimerization Is a Preferential Means to Inhibit Type 1 Diabetes as the Latter Induces Generalized Immunosuppression. Journal of Immunology, 2006, 177, 6675-6684.	0.8	26
80	The impact of psychological stress on the efficacy of anti-viral adoptive immunotherapy in an immunocompromised host. Journal of Neuroimmunology, 1997, 78, 19-33.	2.3	25
81	Rapid quantification of naive alloreactive T cells by TNF-Î± production and correlation with allograft rejection in mice. Blood, 2007, 109, 819-826.	1.4	25
82	Humanized mice for the study of type 1 and type 2 diabetes. Annals of the New York Academy of Sciences, 2011, 1245, 55-58.	3.8	25
83	T-cell activation and transplantation tolerance. Transplantation Reviews, 2012, 26, 212-222.	2.9	25
84	mRNA-mediated glycoengineering ameliorates deficient homing of human stem cellâ€“derived hematopoietic progenitors. Journal of Clinical Investigation, 2017, 127, 2433-2437.	8.2	23
85	Hyperglycemia-Induced Proliferation of Adult Human Beta Cells Engrafted Into Spontaneously Diabetic Immunodeficient NOD-Rag1null IL2rÎ³null Ins2Akita Mice. Pancreas, 2011, 40, 1147-1149.	1.1	20
86	Preapoptotic Phenotype of Viral Epitope-Specific CD8 T Cells Precludes Memory Development and Is an Intrinsic Property of the Epitope. Journal of Immunology, 2004, 173, 5138-5147.	0.8	18
87	A novel hemolytic complement-sufficient NSG mouse model supports studies of complement-mediated antitumor activity in vivo. Journal of Immunological Methods, 2017, 446, 47-53.	1.4	18
88	An RNAi therapeutic targeting hepatic DGAT2 in a genetically obese mouse model of nonalcoholic steatohepatitis. Molecular Therapy, 2022, 30, 1329-1342.	8.2	18
89	IRF4 Regulates the Ratio of T-Bet to Eomesodermin in CD8+ T Cells Responding to Persistent LCMV Infection. PLoS ONE, 2015, 10, e0144826.	2.5	16
90	TLR Agonists Prevent the Establishment of Allogeneic Hematopoietic Chimerism in Mice Treated with Costimulation Blockade. Journal of Immunology, 2009, 182, 5547-5559.	0.8	15

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91	Animal Models for Alopecia Areata: What and Where?. Journal of Investigative Dermatology Symposium Proceedings, 2015, 17, 23-26.	0.8	15
92	Gene Therapy with an Adeno-Associated Viral Vector Expressing Human Interleukin-2 Alters Immune System Homeostasis in Humanized Mice. Human Gene Therapy, 2018, 29, 352-365.	2.7	15
93	Idd Loci Synergize to Prolong Islet Allograft Survival Induced by Costimulation Blockade in NOD Mice. Diabetes, 2009, 58, 165-173.	0.6	14
94	The Presence and Preferential Activation of Regulatory T Cells Diminish Adoptive Transfer of Autoimmune Diabetes by Polyclonal Nonobese Diabetic (NOD) T Cell Effectors into NSG versus NOD-scid Mice. Journal of Immunology, 2015, 195, 3011-3019.	0.8	14
95	Transgenic Expression of the Viral FLIP MC159 Causeslpr/gld-Like Lymphoproliferation and Autoimmunity. Journal of Immunology, 2006, 177, 3814-3820.	0.8	13
96	Kaposi Sarcoma-Associated Herpesvirus Glycoprotein H Is Indispensable for Infection of Epithelial, Endothelial, and Fibroblast Cell Types. Journal of Virology, 2019, 93, .	3.4	13
97	Modeling human T1D-associated autoimmune processes. Molecular Metabolism, 2022, 56, 101417.	6.5	13
98	Prosurvival kinase PIM2 is a therapeutic target for eradication of chronic myeloid leukemia stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10482-10487.	7.1	10
99	Bi-specific MHC Heterodimers for Characterization of Cross-reactive T Cells*. Journal of Biological Chemistry, 2010, 285, 33144-33153.	3.4	9
100	Genetically modified human <scp>CD</scp>4⁺ T cells can be evaluated inÂvivo without lethal graftâ€versusâ€host disease. Immunology, 2016, 148, 339-351.	4.4	9
101	Role of Interferonâ€Î³â€“Producing Th1 Cells in a Murine Model of Type I Interferonâ€“Independent Autoinflammation Resulting From DN ase II Deficiency. Arthritis and Rheumatology, 2020, 72, 359-370.	5.6	9
102	Prostaglandin E2 stimulates cAMP signaling and resensitizes human leukemia cells to glucocorticoid-induced cell death. Blood, 2021, 137, 500-512.	1.4	9
103	Salicylate Prevents Virus-Induced Type 1 Diabetes in the BBDR Rat. PLoS ONE, 2013, 8, e78050.	2.5	8
104	TLR Agonists Abrogate Co-stimulation Blockade-Induced Mixed Chimerism and Transplantation Tolerance. Annals of the New York Academy of Sciences, 2008, 1150, 149-151.	3.8	6
105	Proteomic and Transcriptional Profiles of Human Stem Cell-Derived Î² Cells Following Enteroviral Challenge. Microorganisms, 2020, 8, 295.	3.6	6
106	Alloreactive <scp>CD</scp>8 <scp>T</scp> cells rescued from apoptosis during coâ€stimulation blockade by <scp>T</scp>ollâ€like receptor stimulation remain susceptible to <scp>F</scp>asâ€induced cell death. Immunology, 2013, 138, 322-332.	4.4	5
107	MHC basis of T cell-dependent heterologous immunity to arenaviruses. Virology, 2014, 464-465, 213-217.	2.4	5
108	Human Antiâ€“HIV-1 gp120 Monoclonal Antibodies with Neutralizing Activity Cloned from Humanized Mice Infected with HIV-1. Journal of Immunology, 2019, 202, 799-804.	0.8	5

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109	Heterologous immunity and the CD8 T cell network. Seminars in Immunopathology, 2002, 24, 149-168.	4.0	4
110	Cutting Edge: Early Attrition of Memory T Cells during Inflammation and Costimulation Blockade Is Regulated Concurrently by Proapoptotic Proteins Fas and Bim. Journal of Immunology, 2019, 202, 647-651.	0.8	4
111	Patient-Derived Xenografts (PDX) of B Cell Lymphoma in NSG Mice: A Mouse Avatar for Developing Personalized Medicine. Blood, 2015, 126, 5408-5408.	1.4	4
112	862â€…Targeting PSGL-1, a novel macrophage checkpoint, repolarizes suppressive macrophages, induces an inflammatory tumor microenvironment, and suppresses tumor growth. , 2020, , .		3
113	TMOD-05. EXTRACRANIAL TUMORS INFLUENCE INTRACRANIAL RESPONSE TO IMMUNE CHECKPOINT INHIBITORS IN PRE-CLINICAL MODELS OF MELANOMA BRAIN METASTASIS. Neuro-Oncology, 2020, 22, ii228-ii228.	1.2	2
114	The HIV-Tat protein interacts with Sp3 transcription factor and inhibits its binding to a distal site of the sod2 promoter in human pulmonary artery endothelial cells. Free Radical Biology and Medicine, 2020, 147, 102-113.	2.9	1
115	62. PRESENCE OF EXTRACRANIAL TUMORS INFLUENCES RESPONSE TO IMMUNE CHECKPOINT INHIBITORS IN A PRE-CLINICAL MODEL OF MELANOMA BRAIN METASTASIS. Neuro-Oncology Advances, 2020, 2, ii13-ii13.	0.7	1
116	Acquired Immunity against Virus Infections. , 0, , 237-254.		1
117	Biâ€specific MHC Heterodimers for Characterization of Crossâ€reactive T Cells. FASEB Journal, 2011, 25, .	0.5	0
118	Enhanced Enrichment and Purification of Blood-Derived T-Cells Using a Novel Hydrogel Technology. Blood, 2015, 126, 5437-5437.	1.4	0
119	A donor-dependent in vivo model for single agent and drug combination cytokine release syndrome safety evaluation.. Journal of Clinical Oncology, 2019, 37, 2612-2612.	1.6	0
120	877â€…PSGL-1 blocking antibodies repolarize tumor associated macrophages, reduce suppressive myeloid populations and induce inflammation in the tumor microenvironment, leading to suppression of tumor growth. , 2021, 9, A919-A919.		0
121	402.4: Genetic Approaches to Attain Hypo-immunogenic Human Stem Cell Derived Islets for Transplantation. Transplantation, 2021, 105, S28-S28.	1.0	0