Josef Martin Penninger

List of Publications by Year
in descending order

620	118,524	151 156	155 324
papers	citations	h-index	g-index

670	670	670	118620
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	5.0	4,036
3	Cerebral organoids model human brain development and microcephaly. Nature, 2013, 501, 373-379.	13.7	3,889
4	Molecular characterization of mitochondrial apoptosis-inducing factor. Nature, 1999, 397, 441-446.	13.7	3,697
5	OPGL is a key regulator of osteoclastogenesis, lymphocyte development and lymph-node organogenesis. Nature, 1999, 397, 315-323.	13.7	3,093
6	A crucial role of angiotensin converting enzyme 2 (ACE2) in SARS coronavirusâ€“induced lung injury. Nature Medicine, 2005, 11, 875-879.	15.2	2,986
7	Lymphoproliferative Disorders with Early Lethality in Mice Deficient in Ctla-4. Science, 1995, 270, 985-988.	6.0	2,587
8	Negative Regulation of PKB/Akt-Dependent Cell Survival by the Tumor Suppressor PTEN. Cell, 1998, 95, 29-39.	13.5	2,269
9	Angiotensin-converting enzyme 2 protects from severe acute lung failure. Nature, 2005, 436, 112-116.	13.7	2,264
10	Angiotensin-converting enzyme 2 (ACE2) as a SARS-CoV-2 receptor: molecular mechanisms and potential therapeutic target. Intensive Care Medicine, 2020, 46, 586-590.	3.9	2,071
11	Inhibition of SARS-CoV-2 Infections in Engineered Human Tissues Using Clinical-Grade Soluble Human ACE2. Cell, 2020, 181, 905-913.e7.	13.5	1,827
12	Activated T cells regulate bone loss and joint destruction in adjuvant arthritis through osteoprotegerin ligand. Nature, 1999, 402, 304-309.	13.7	1,809
13	Evidence for osteocyte regulation of bone homeostasis through RANKL expression. Nature Medicine, 2011, 17, 1231-1234.	15.2	1,593
14	Angiotensin-converting enzyme 2 is an essential regulator of heart function. Nature, 2002, 417, 822-828.	13.7	1,586
15	Mitogen-activated protein kinases in apoptosis regulation. Oncogene, 2004, 23, 2838-2849.	2.6	1,361
16	Molecular definitions of autophagy and related processes. EMBO Journal, 2017, 36, 1811-1836.	3.5	1,230
17	Differential Requirement for Caspase 9 in Apoptotic Pathways In Vivo. Cell, 1998, 94, 339-352.	13.5	1,224
18	Essential role of the mitochondrial apoptosis-inducing factor in programmed cell death. Nature, 2001, 410, 549-554.	13.7	1,212

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19	Identification of Oxidative Stress and Toll-like Receptor 4 Signaling as a Key Pathway of Acute Lung Injury. Cell, 2008, 133, 235-249.	13.5	1,164
20	TRAF6 deficiency results in osteopetrosis and defective interleukin-1, CD40, and LPS signaling. Genes and Development, 1999, 13, 1015-1024.	2.7	1,146
21	Apaf1 Is Required for Mitochondrial Pathways of Apoptosis and Brain Development. Cell, 1998, 94, 739-750.	13.5	1,072
22	ACE2 links amino acid malnutrition to microbial ecology and intestinal inflammation. Nature, 2012, 487, 477-481.	13.7	1,035
23	Autophagy in malignant transformation and cancer progression. EMBO Journal, 2015, 34, 856-880.	3.5	1,012
24	Function of PI3K in Thymocyte Development, T Cell Activation, and Neutrophil Migration. Science, 2000, 287, 1040-1046.	6.0	1,003
25	RANKLâ€“RANK signaling in osteoclastogenesis and bone disease. Trends in Molecular Medicine, 2006, 12, 17-25.	3.5	970
26	Electrical signals control wound healing through phosphatidylinositol-3-OH kinase-Î³ and PTEN. Nature, 2006, 442, 457-460.	13.7	880
27	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. Cell Death and Differentiation, 2015, 22, 58-73.	5.0	811
28	Heat-shock protein 70 antagonizes apoptosis-inducing factor. Nature Cell Biology, 2001, 3, 839-843.	4.6	790
29	Severe impairment of interleukin-1 and Toll-like receptor signalling in mice lacking IRAK-4. Nature, 2002, 416, 750-754.	13.7	766
30	RANK-LANDRANK: T Cells, Bone Loss, and Mammalian Evolution. Annual Review of Immunology, 2002, 20, 795-823.	9.5	741
31	SARSâ€coronavirus modulation of myocardial ACE2 expression and inflammation in patients with SARS. European Journal of Clinical Investigation, 2009, 39, 618-625.	1.7	732
32	Mitochondrioâ€nuclear translocation of AIF in apoptosis and necrosis. FASEB Journal, 2000, 14, 729-739.	0.2	723
33	Regulation of cancer cell migration and bone metastasis by RANKL. Nature, 2006, 440, 692-696.	13.7	709
34	The Osteoclast Differentiation Factor Osteoprotegerin-Ligand Is Essential for Mammary Gland Development. Cell, 2000, 103, 41-50.	13.5	674
35	Two Distinct Pathways Leading to Nuclear Apoptosis. Journal of Experimental Medicine, 2000, 192, 571-580.	4.2	665
36	ICOS is essential for effective T-helper-cell responses. Nature, 2001, 409, 105-109.	13.7	629

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37	Negative regulation of lymphocyte activation and autoimmunity by the molecular adaptor Cbl-b. Nature, 2000, 403, 211-216.	13.7	623
38	Autophagy in major human diseases. EMBO Journal, 2021, 40, e108863.	3.5	615
39	Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. Cell Death and Differentiation, 2009, 16, 1093-1107.	5.0	599
40	Temporally Regulated and Tissue-Specific Gene Manipulations in the Adult and Embryonic Heart Using a Tamoxifen-Inducible Cre Protein. Circulation Research, 2001, 89, 20-25.	2.0	593
41	AIF deficiency compromises oxidative phosphorylation. EMBO Journal, 2004, 23, 4679-4689.	3.5	576
42	Regulation of Myocardial Contractility and Cell Size by Distinct PI3K-PTEN Signaling Pathways. Cell, 2002, 110, 737-749.	13.5	545
43	T Cell-Specific Loss of Pten Leads to Defects in Central and Peripheral Tolerance. Immunity, 2001, 14, 523-534.	6.6	524
44	Osteoclast differentiation factor RANKL controls development of progestin-driven mammary cancer. Nature, 2010, 468, 98-102.	13.7	507
45	CD45 is a JAK phosphatase and negatively regulates cytokine receptor signalling. Nature, 2001, 409, 349-354.	13.7	501
46	Normal B lymphocyte development but impaired T cell maturation in CD45-Exon6 protein tyrosine phosphatase-deficient mice. Cell, 1993, 74, 143-156.	13.5	500
47	Human blood vessel organoids as aÂmodel ofÂdiabetic vasculopathy. Nature, 2019, 565, 505-510.	13.7	500
48	Apoptosis inducing factor (AIF): a phylogenetically old, caspase-independent effector of cell death. Cell Death and Differentiation, 1999, 6, 516-524.	5.0	452
49	RANK signals from CD4+3â˜ inducer cells regulate development of Aire-expressing epithelial cells in the thymic medulla. Journal of Experimental Medicine, 2007, 204, 1267-1272.	4.2	434
50	The Tumor Necrosis Factor Family Receptors RANK and CD40 Cooperatively Establish the Thymic Medullary Microenvironment and Self-Tolerance. Immunity, 2008, 29, 423-437.	6.6	434
51	Functional human T-cell immunity and osteoprotegerin ligand control alveolar bone destruction in periodontal infection. Journal of Clinical Investigation, 2000, 106, R59-R67.	3.9	431
52	Chlamydia Infections and Heart Disease Linked Through Antigenic Mimicry. Science, 1999, 283, 1335-1339.	6.0	430
53	Vav is a regulator of cytoskeletal reorganization mediated by the T-cell receptor. Current Biology, 1998, 8, 554-S3.	1.8	414
54	The role of phosphoinositide-3 kinase and PTEN in cardiovascular physiology and disease. Journal of Molecular and Cellular Cardiology, 2004, 37, 449-471.	0.9	413

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55	Caloric Restriction Mimetics Enhance Anticancer Immunosurveillance. Cancer Cell, 2016, 30, 147-160.	7.7	410
56	Dendritic cellâ€“induced autoimmune heart failure requires cooperation between adaptive and innate immunity. Nature Medicine, 2003, 9, 1484-1490.	15.2	404
57	New gene functions in megakaryopoiesis and platelet formation. Nature, 2011, 480, 201-208.	13.7	401
58	Trilogy of ACE2: A peptidase in the reninâ€“angiotensin system, a SARS receptor, and a partner for amino acid transporters. , 2010, 128, 119-128.		400
59	The Lipid Mediator Protectin D1 Inhibits Influenza Virus Replication and Improves Severe Influenza. Cell, 2013, 153, 112-125.	13.5	399
60	The E3 ligase Cbl-b and TAM receptors regulate cancer metastasis via natural killer cells. Nature, 2014, 507, 508-512.	13.7	394
61	Angiotensin-Converting Enzyme 2 Suppresses Pathological Hypertrophy, Myocardial Fibrosis, and Cardiac Dysfunction. Circulation, 2010, 122, 717-728.	1.6	383
62	Targeted Deletion of AIF Decreases Mitochondrial Oxidative Phosphorylation and Protects from Obesity and Diabetes. Cell, 2007, 131, 476-491.	13.5	381
63	Identification and functional analysis of endothelial tip cellâ€“enriched genes. Blood, 2010, 116, 4025-4033.	0.6	379
64	Epidermal RANKL controls regulatory T-cell numbers via activation of dendritic cells. Nature Medicine, 2006, 12, 1372-1379.	15.2	378
65	Coupling of bone resorption and formation by RANKL reverse signalling. Nature, 2018, 561, 195-200.	13.7	376
66	The Cytokine RANKL Produced by Positively Selected Thymocytes Fosters Medullary Thymic Epithelial Cells that Express Autoimmune Regulator. Immunity, 2008, 29, 438-450.	6.6	375
67	A dual role for autophagy in a murine model of lung cancer. Nature Communications, 2014, 5, 3056.	5.8	369
68	An Immunosurveillance Mechanism Controls Cancer Cell Ploidy. Science, 2012, 337, 1678-1684.	6.0	367
69	The lipid phosphatase SHIP2 controls insulin sensitivity. Nature, 2001, 409, 92-97.	13.7	355
70	RANK/RANKL: Regulators of Immune Responses and Bone Physiology. Annals of the New York Academy of Sciences, 2008, 1143, 123-150.	1.8	355
71	Angiotensin-converting enzyme 2 protects from lethal avian influenza A H5N1 infections. Nature Communications, 2014, 5, 3594.	5.8	354
72	Tissue Expression and Immunolocalization of Tumor Necrosis Factor-Î± in Postinfarction Dysfunctional Myocardium. Circulation, 1999, 99, 1492-1498.	1.6	353

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73	Antigen Receptorâ€“Induced Activation and Cytoskeletal Rearrangement Are Impaired in Wiskott-Aldrich Syndrome Proteinâ€“Deficient Lymphocytes. Journal of Experimental Medicine, 1999, 190, 1329-1342.	4.2	346
74	NADH Oxidase Activity of Mitochondrial Apoptosis-inducing Factor. Journal of Biological Chemistry, 2001, 276, 16391-16398.	1.6	344
75	Angiotensin-converting enzyme 2 in lung diseases. Current Opinion in Pharmacology, 2006, 6, 271-276.	1.7	342
76	Human recombinant soluble ACE2 in severe COVID-19. Lancet Respiratory Medicine,the, 2020, 8, 1154-1158.	5.2	340
77	Stress-signalling kinase Sek1 protects thymocytes from apoptosis mediated by CD95 and CD3. Nature, 1997, 385, 350-353.	13.7	339
78	Drosophila Genome-wide Obesity Screen Reveals Hedgehog as a Determinant of Brown versus White Adipose Cell Fate. Cell, 2010, 140, 148-160.	13.5	336
79	Pharmacokinetics and Pharmacodynamics of Recombinant Human Angiotensin-Converting Enzyme 2 in Healthy Human Subjects. Clinical Pharmacokinetics, 2013, 52, 783-792.	1.6	326
80	Seventy-five genetic loci influencing the human red blood cell. Nature, 2012, 492, 369-375.	13.7	320
81	The MAGUK Family Protein CARD11 Is Essential for Lymphocyte Activation. Immunity, 2003, 18, 763-775.	6.6	317
82	Impaired Negative Selection of T Cells in Hodgkin's Disease Antigen CD30â€“Deficient Mice. Cell, 1996, 84, 551-562.	13.5	316
83	The Transcription Factor NF-ATc1 Regulates Lymphocyte Proliferation and Th2 Cytokine Production. Immunity, 1998, 8, 115-124.	6.6	314
84	Essential Role of the E3 Ubiquitin Ligase Cbl-b in T Cell Anergy Induction. Immunity, 2004, 21, 167-177.	6.6	308
85	SHIP is a negative regulator of growth factor receptor-mediated PKB/Akt activation and myeloid cell survival. Genes and Development, 1999, 13, 786-791.	2.7	306
86	The adaptor protein CARD9 is essential for the activation of myeloid cells through ITAM-associated and Toll-like receptors. Nature Immunology, 2007, 8, 619-629.	7.0	300
87	Silencing Nociceptor Neurons Reduces Allergic Airway Inflammation. Neuron, 2015, 87, 341-354.	3.8	299
88	Involvement of the IRF-1 transcription factor in antiviral responses to interferons. Science, 1994, 264, 1921-1924.	6.0	292
89	The discovery of angiotensinâ€converting enzyme 2 and its role in acute lung injury in mice. Experimental Physiology, 2008, 93, 543-548.	0.9	284
90	Identifying the MAGUK Protein Carma-1 as a Central Regulator of Humoral Immune Responses and Atopy by Genome-Wide Mouse Mutagenesis. Immunity, 2003, 18, 751-762.	6.6	283

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91	A Genome-wide Drosophila Screen for Heat Nociception Identifies Î±2Î´3 as an Evolutionarily Conserved Pain Gene. Cell, 2010, 143, 628-638.	13.5	283
92	Positive Regulation of T Cell Activation and Integrin Adhesion by the Adapter Fyb/Slap. Science, 2001, 293, 2260-2263.	6.0	278
93	LGR4 is a receptor for RANKL and negatively regulates osteoclast differentiation and bone resorption. Nature Medicine, 2016, 22, 539-546.	15.2	278
94	Control of cell polarity and motility by the PtdIns(3,4,5)P3 phosphatase SHIP1. Nature Cell Biology, 2007, 9, 36-44.	4.6	277
95	Genome-Wide RNAi Screen Identifies Genes Involved in Intestinal Pathogenic Bacterial Infection. Science, 2009, 325, 340-343.	6.0	277
96	DREAM Is a Critical Transcriptional Repressor for Pain Modulation. Cell, 2002, 108, 31-43.	13.5	274
97	Targeting the Degradation of Angiotensin II With Recombinant Angiotensin-Converting Enzyme 2. Hypertension, 2010, 55, 90-98.	1.3	273
98	Functional Recovery of a Human Neonatal Heart After Severe Myocardial Infarction. Circulation Research, 2016, 118, 216-221.	2.0	272
99	Angiotensin converting enzyme-2 confers endothelial protection and attenuates atherosclerosis. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H1377-H1384.	1.5	267
100	Regulation of T cell activation, anxiety, and male aggression by RGS2. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 12272-12277.	3.3	264
101	CD45: new jobs for an old acquaintance. Nature Immunology, 2001, 2, 389-396.	7.0	264
102	Human Recombinant ACE2 Reduces the Progression of Diabetic Nephropathy. Diabetes, 2010, 59, 529-538.	0.3	264
103	Impaired Heart Contractility in Apelin Geneâ€“Deficient Mice Associated With Aging and Pressure Overload. Circulation Research, 2007, 101, e32-42.	2.0	260
104	AIF and cyclophilin A cooperate in apoptosis-associated chromatinolysis. Oncogene, 2004, 23, 1514-1521.	2.6	254
105	Hypertension and prolonged vasoconstrictor signaling in RGS2-deficient mice. Journal of Clinical Investigation, 2003, 111, 445-452.	3.9	254
106	Angiotensin-converting enzyme 2 (ACE2) mediates influenza H7N9 virus-induced acute lung injury. Scientific Reports, 2014, 4, 7027.	1.6	249
107	Paul Ehrlich (1854-1915) and His Contributions to the Foundation and Birth of Translational Medicine. Journal of Innate Immunity, 2016, 8, 111-120.	1.8	249
108	CXCL10-CXCR3 Enhances the Development of Neutrophil-mediated Fulminant Lung Injury of Viral and Nonviral Origin. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 65-77.	2.5	248

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109	The histone chaperone CAF-1 safeguards somatic cell identity. Nature, 2015, 528, 218-224.	13.7	244
110	T-bet negatively regulates autoimmune myocarditis by suppressing local production of interleukin 17. Journal of Experimental Medicine, 2006, 203, 2009-2019.	4.2	241
111	Angiotensin-Converting Enzyme II in the Heart and the Kidney. Circulation Research, 2006, 98, 463-471.	2.0	239
112	Tissue-Specific Amino Acid Transporter Partners ACE2 and Collectrin Differentially Interact With Hartnup Mutations. Gastroenterology, 2009, 136, 872-882.e3.	0.6	239
113	Hedgehog Partial Agonism Drives Warburg-like Metabolism in Muscle and Brown Fat. Cell, 2012, 151, 414-426.	13.5	237
114	Loss of Angiotensin-Converting Enzyme-2 (Ace2) Accelerates Diabetic Kidney Injury. American Journal of Pathology, 2007, 171, 438-451.	1.9	235
115	The Role of ACE2 in Cardiovascular Physiology. Trends in Cardiovascular Medicine, 2003, 13, 93-101.	2.3	232
116	CLP1 links tRNA metabolism to progressive motor-neuron loss. Nature, 2013, 495, 474-480.	13.7	231
117	Dominant cell death induction by extramitochondrially targeted apoptosisâ€inducing factor. FASEB Journal, 2001, 15, 758-767.	0.2	226
118	Immunity by ubiquitylation: a reversible process of modification. Nature Reviews Immunology, 2005, 5, 941-952.	10.6	224
119	Monoglyceride Lipase Deficiency in Mice Impairs Lipolysis and Attenuates Diet-induced Insulin Resistance. Journal of Biological Chemistry, 2011, 286, 17467-17477.	1.6	224
120	No death without life: vital functions of apoptotic effectors. Cell Death and Differentiation, 2008, 15, 1113-1123.	5.0	221
121	Dysregulation in Akt/mTOR/HIF-1 signaling identified by proteo-transcriptomics of SARS-CoV-2 infected cells. Emerging Microbes and Infections, 2020, 9, 1748-1760.	3.0	221
122	Cardiac regulation by phosphoinositide 3-kinases and PTEN. Cardiovascular Research, 2008, 82, 250-260.	1.8	218
123	Apoptosis Control in Syncytia Induced by the HIV Type 1â€"Envelope Glycoprotein Complex. Journal of Experimental Medicine, 2000, 192, 1081-1092.	4.2	217
124	Cutting Edge: Differential Roles for Phosphoinositide 3-Kinases, p110Î³ and p110Î´, in Lymphocyte Chemotaxis and Homing. Journal of Immunology, 2004, 173, 2236-2240.	0.4	217
125	Distribution of Angiotensin-(1-7) and ACE2 in Human Placentas of Normal and Pathological Pregnancies. Placenta, 2006, 27, 200-207.	0.7	217
126	Angiotensin II-mediated oxidative stress and inflammation mediate the age-dependent cardiomyopathy in ACE2 null mice. Cardiovascular Research, 2007, 75, 29-39.	1.8	215

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127	Loss of Angiotensin-Converting Enzyme-2 Leads to the Late Development of Angiotensin II-Dependent Glomerulosclerosis. American Journal of Pathology, 2006, 168, 1808-1820.	1.9	214
128	Complete cardiac regeneration in a mouse model of myocardial infarction. Aging, 2012, 4, 966-977.	1.4	214
129	Central control of fever and female body temperature by RANKL/RANK. Nature, 2009, 462, 505-509.	13.7	212
130	Blockade of receptor activator of nuclear factor-Î¹B (RANKL) signaling improves hepatic insulin resistance and prevents development of diabetes mellitus. Nature Medicine, 2013, 19, 358-363.	15.2	211
131	Decreased glomerular and tubular expression of ACE2 in patients with type 2 diabetes and kidney disease. Kidney International, 2008, 74, 1610-1616.	2.6	209
132	Muscle-Specific Loss of Apoptosis-Inducing Factor Leads to Mitochondrial Dysfunction, Skeletal Muscle Atrophy, and Dilated Cardiomyopathy. Molecular and Cellular Biology, 2005, 25, 10261-10272.	1.1	208
133	Essential role for collectrin in renal amino acid transport. Nature, 2006, 444, 1088-1091.	13.7	208
134	Forward and Reverse Genetics through Derivation of Haploid Mouse Embryonic Stem Cells. Cell Stem Cell, 2011, 9, 563-574.	5.2	208
135	The Actin Cytoskeleton and Lymphocyte Activation. Cell, 1999, 96, 9-12.	13.5	205
136	Cbl-b Is a Negative Regulator of Receptor Clustering and Raft Aggregation in T Cells. Immunity, 2000, 13, 463-473.	6.6	205
137	The Inositol Polyphosphate 5-Phosphatase Ship Is a Crucial Negative Regulator of B Cell Antigen Receptor Signaling. Journal of Experimental Medicine, 1998, 188, 1333-1342.	4.2	204
138	Essential Role of Fkbp6 in Male Fertility and Homologous Chromosome Pairing in Meiosis. Science, 2003, 300, 1291-1295.	6.0	200
139	Prevention of Angiotensin IIâ€“Mediated Renal Oxidative Stress, Inflammation, and Fibrosis by Angiotensin-Converting Enzyme 2. Hypertension, 2011, 57, 314-322.	1.3	200
140	A Global In Vivo Drosophila RNAi Screen Identifies NOT3 as a Conserved Regulator of Heart Function. Cell, 2010, 141, 142-153.	13.5	199
141	Loss of Angiotensin-Converting Enzyme 2 Accelerates Maladaptive Left Ventricular Remodeling in Response to Myocardial Infarction. Circulation: Heart Failure, 2009, 2, 446-455.	1.6	194
142	ACE2 â€“ From the reninâ€“angiotensin system to gut microbiota and malnutrition. Microbes and Infection, 2013, 15, 866-873.	1.0	193
143	ACE2 Deficiency Worsens Epicardial Adipose Tissue Inflammation and Cardiac Dysfunction in Response to Diet-Induced Obesity. Diabetes, 2016, 65, 85-95.	0.3	193
144	Human CLP1 Mutations Alter tRNA Biogenesis, Affecting Both Peripheral and Central Nervous System Function. Cell, 2014, 157, 636-650.	13.5	189

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145	Neuregulin stimulation of cardiomyocyte regeneration in mice and human myocardium reveals a therapeutic window. Science Translational Medicine, 2015, 7, 281ra45.	5.8	189
146	Mitochondria, AIF and caspases â€" rivaling for cell death execution. Nature Cell Biology, 2003, 5, 97-99.	4.6	186
147	Susceptibility to Myocarditis Is Dependent on the Response of Î±Î² T Lymphocytes to Coxsackieviral Infection. Circulation Research, 1999, 85, 551-558.	2.0	182
148	Involvement of Phosphoinositide 3-Kinases in Neutrophil Activation and the Development of Acute Lung Injury. Journal of Immunology, 2001, 167, 6601-6608.	0.4	181
149	Vav1 Controls Integrin Clustering and MHC/Peptide-Specific Cell Adhesion to Antigen-Presenting Cells. Immunity, 2002, 16, 331-343.	6.6	179
150	The Role of Iron Regulation in Immunometabolism and Immune-Related Disease. Frontiers in Molecular Biosciences, 2019, 6, 116.	1.6	178
151	JAK inhibition reduces SARS-CoV-2 liver infectivity and modulates inflammatory responses to reduce morbidity and mortality. Science Advances, 2021, 7, .	4.7	176
152	Dissociating the dual roles of apoptosis-inducing factor in maintaining mitochondrial structure and apoptosis. EMBO Journal, 2006, 25, 4061-4073.	3.5	175
153	Identification of cardiac myosin peptides capable of inducing autoimmune myocarditis in BALB/c mice.. Journal of Clinical Investigation, 1996, 97, 2057-2062.	3.9	175
154	The metabolite BH4 controls T cell proliferation in autoimmunity and cancer. Nature, 2018, 563, 564-568.	13.7	174
155	Apelin Treatment Increases Complete Fatty Acid Oxidation, Mitochondrial Oxidative Capacity, and Biogenesis in Muscle of Insulin-Resistant Mice. Diabetes, 2012, 61, 310-320.	0.3	173
156	Loss of Apelin Exacerbates Myocardial Infarction Adverse Remodeling and Ischemiaâ€reperfusion Injury: Therapeutic Potential of Synthetic Apelin Analogues. Journal of the American Heart Association, 2013, 2, e000249.	1.6	171
157	The role of endothelial PI3KÎ³ activity in neutrophil trafficking. Blood, 2005, 106, 150-157.	0.6	169
158	The molecular scaffold Gab2 is a crucial component of RANK signaling and osteoclastogenesis. Nature Medicine, 2005, 11, 394-399.	15.2	169
159	Angiotensin-Converting Enzyme 2 (ACE2) in Disease Pathogenesis. Circulation Journal, 2010, 74, 405-410.	0.7	167
160	The crystal structure of the mouse apoptosis-inducing factor AIF. Nature Structural Biology, 2002, 9, 442-446.	9.7	163
161	Multiple Functions of Angiotensin-Converting Enzyme 2 and Its Relevance in Cardiovascular Diseases. Circulation Journal, 2013, 77, 301-308.	0.7	162
162	Trim28 Haploinsufficiency Triggers Bi-stable Epigenetic Obesity. Cell, 2016, 164, 353-364.	13.5	161

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163	High Precision Quantitative Proteomics Using iTRAQ on an LTQ Orbitrap: A New Mass Spectrometric Method Combining the Benefits of All. Journal of Proteome Research, 2009, 8, 4743-4752.	1.8	158
164	The tyrosine kinase p56lck is essential in coxsackievirus B3-mediated heart disease. Nature Medicine, 2000, 6, 429-434.	15.2	156
165	Phosphoinositide 3-Kinase Î³â€“Deficient Mice Are Protected From Isoproterenol-Induced Heart Failure. Circulation, 2003, 108, 2147-2152.	1.6	155
166	Osteoprotegerin ligand: a regulator of immune responses and bone physiology. Trends in Immunology, 2000, 21, 495-502.	7.5	153
167	Rank Signaling Links the Development of Invariant Î³Î´ T Cell Progenitors and Aire+ Medullary Epithelium. Immunity, 2012, 36, 427-437.	6.6	152
168	AIF: Not Just an Apoptosisâ€Inducing Factor. Annals of the New York Academy of Sciences, 2009, 1171, 2-11.	1.8	151
169	X Protein of Hepatitis B Virus Inhibits Fas-mediated Apoptosis and Is Associated with Up-regulation of the SAPK/JNK Pathway. Journal of Biological Chemistry, 2001, 276, 8328-8340.	1.6	149
170	Ferritinophagy and ferroptosis in the management of metabolic diseases. Trends in Endocrinology and Metabolism, 2021, 32, 444-462.	3.1	148
171	Activation of Dendritic Cells through the Interleukin 1 Receptor 1 Is Critical for the Induction of Autoimmune Myocarditis. Journal of Experimental Medicine, 2003, 197, 323-331.	4.2	145
172	Identification of cell cycleâ€“arrested quiescent osteoclast precursors in vivo. Journal of Cell Biology, 2009, 184, 541-554.	2.3	144
173	Apelin is a positive regulator of ACE2 in failing hearts. Journal of Clinical Investigation, 2013, 123, 5203-5211.	3.9	143
174	TrpA1 Regulates Thermal Nociception in Drosophila. PLoS ONE, 2011, 6, e24343.	1.1	140
175	TCR affinity and negative regulation limit autoimmunity. Nature Medicine, 2004, 10, 1234-1239.	15.2	138
176	Spinophilin regulates Ca2+ signalling by binding the N-terminal domain of RGS2 and the third intracellular loop of G-protein-coupled receptors. Nature Cell Biology, 2005, 7, 405-411.	4.6	138
177	Preferential Signaling and Induction of Allergy-promoting Lymphokines Upon Weak Stimulation of the High Affinity IgE Receptor on Mast Cells. Journal of Experimental Medicine, 2003, 197, 1453-1465.	4.2	137
178	Angiotensin II plasma levels are linked to disease severity and predict fatal outcomes in H7N9-infected patients. Nature Communications, 2014, 5, 3595.	5.8	137
179	Evolution of the mammary gland from the innate immune system?. BioEssays, 2006, 28, 606-616.	1.2	136
180	Generation of blood vessel organoids from human pluripotent stem cells. Nature Protocols, 2019, 14, 3082-3100.	5.5	136

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181	MKK7 couples stress signalling to G2/M cell-cycle progression and cellular senescence. Nature Cell Biology, 2004, 6, 215-226.	4.6	134
182	Osteoclasts are dispensable for hematopoietic stem cell maintenance and mobilization. Journal of Experimental Medicine, 2011, 208, 2175-2181.	4.2	134
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