

# Josef Martin Penninger

## List of Publications by Citations

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599  
papers

95,753  
citations

147  
h-index

299  
g-index

667  
ext. papers

108,571  
ext. citations

14.8  
avg, IF

7.74  
L-index

#	Paper	IF	Citations
599	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
598	Molecular characterization of mitochondrial apoptosis-inducing factor. <i>Nature</i> , <b>1999</b> , 397, 441-6	50.4	3342
597	OPGL is a key regulator of osteoclastogenesis, lymphocyte development and lymph-node organogenesis. <i>Nature</i> , <b>1999</b> , 397, 315-23	50.4	2789
596	Cerebral organoids model human brain development and microcephaly. <i>Nature</i> , <b>2013</b> , 501, 373-9	50.4	2621
595	A crucial role of angiotensin converting enzyme 2 (ACE2) in SARS coronavirus-induced lung injury. <i>Nature Medicine</i> , <b>2005</b> , 11, 875-9	50.5	2294
594	Lymphoproliferative disorders with early lethality in mice deficient in Ctla-4. <i>Science</i> , <b>1995</b> , 270, 985-8	33.3	2268
593	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , <b>2018</b> , 25, 486-541	12.7	2160
592	Negative regulation of PKB/Akt-dependent cell survival by the tumor suppressor PTEN. <i>Cell</i> , <b>1998</b> , 95, 29-39	56.2	2072
591	Angiotensin-converting enzyme 2 protects from severe acute lung failure. <i>Nature</i> , <b>2005</b> , 436, 112-6	50.4	1770
590	Activated T cells regulate bone loss and joint destruction in adjuvant arthritis through osteoprotegerin ligand. <i>Nature</i> , <b>1999</b> , 402, 304-9	50.4	1642
589	Angiotensin-converting enzyme 2 (ACE2) as a SARS-CoV-2 receptor: molecular mechanisms and potential therapeutic target. <i>Intensive Care Medicine</i> , <b>2020</b> , 46, 586-590	14.5	1455
588	Angiotensin-converting enzyme 2 is an essential regulator of heart function. <i>Nature</i> , <b>2002</b> , 417, 822-8	50.4	1345
587	Evidence for osteocyte regulation of bone homeostasis through RANKL expression. <i>Nature Medicine</i> , <b>2011</b> , 17, 1231-4	50.5	1310
586	Inhibition of SARS-CoV-2 Infections in Engineered Human Tissues Using Clinical-Grade Soluble Human ACE2. <i>Cell</i> , <b>2020</b> , 181, 905-913.e7	56.2	1293
585	Mitogen-activated protein kinases in apoptosis regulation. <i>Oncogene</i> , <b>2004</b> , 23, 2838-49	9.2	1205
584	Differential requirement for caspase 9 in apoptotic pathways in vivo. <i>Cell</i> , <b>1998</b> , 94, 339-52	56.2	1136
583	Essential role of the mitochondrial apoptosis-inducing factor in programmed cell death. <i>Nature</i> , <b>2001</b> , 410, 549-54	50.4	1102

582	TRAF6 deficiency results in osteopetrosis and defective interleukin-1, CD40, and LPS signaling. <i>Genes and Development</i> , <b>1999</b> , 13, 1015-24	12.6	995
581	Apaf1 is required for mitochondrial pathways of apoptosis and brain development. <i>Cell</i> , <b>1998</b> , 94, 739-50	56.2	988
580	Identification of oxidative stress and Toll-like receptor 4 signaling as a key pathway of acute lung injury. <i>Cell</i> , <b>2008</b> , 133, 235-49	56.2	965
579	Function of PI3Kgamma in thymocyte development, T cell activation, and neutrophil migration. <i>Science</i> , <b>2000</b> , 287, 1040-6	33.3	932
578	Molecular definitions of autophagy and related processes. <i>EMBO Journal</i> , <b>2017</b> , 36, 1811-1836	13	857
577	RANKL-RANK signaling in osteoclastogenesis and bone disease. <i>Trends in Molecular Medicine</i> , <b>2006</b> , 12, 17-25	11.5	808
576	Autophagy in malignant transformation and cancer progression. <i>EMBO Journal</i> , <b>2015</b> , 34, 856-80	13	801
575	ACE2 links amino acid malnutrition to microbial ecology and intestinal inflammation. <i>Nature</i> , <b>2012</b> , 487, 477-81	50.4	756
574	Heat-shock protein 70 antagonizes apoptosis-inducing factor. <i>Nature Cell Biology</i> , <b>2001</b> , 3, 839-43	23.4	707
573	Electrical signals control wound healing through phosphatidylinositol-3-OH kinase-gamma and PTEN. <i>Nature</i> , <b>2006</b> , 442, 457-60	50.4	700
572	Severe impairment of interleukin-1 and Toll-like receptor signalling in mice lacking IRAK-4. <i>Nature</i> , <b>2002</b> , 416, 750-6	50.4	666
571	Mitochondrio-nuclear translocation of AIF in apoptosis and necrosis. <i>FASEB Journal</i> , <b>2000</b> , 14, 729-739	0.9	657
570	RANK-L and RANK: T cells, bone loss, and mammalian evolution. <i>Annual Review of Immunology</i> , <b>2002</b> , 20, 795-823	34.7	649
569	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , <b>2015</b> , 22, 58-73	12.7	643
568	Two distinct pathways leading to nuclear apoptosis. <i>Journal of Experimental Medicine</i> , <b>2000</b> , 192, 571-80	16.6	606
567	Regulation of cancer cell migration and bone metastasis by RANKL. <i>Nature</i> , <b>2006</b> , 440, 692-6	50.4	603
566	The osteoclast differentiation factor osteoprotegerin-ligand is essential for mammary gland development. <i>Cell</i> , <b>2000</b> , 103, 41-50	56.2	593
565	SARS-coronavirus modulation of myocardial ACE2 expression and inflammation in patients with SARS. <i>European Journal of Clinical Investigation</i> , <b>2009</b> , 39, 618-25	4.6	576

564	ICOS is essential for effective T-helper-cell responses. <i>Nature</i> , <b>2001</b> , 409, 105-9	50.4	572
563	Negative regulation of lymphocyte activation and autoimmunity by the molecular adaptor Cbl-b. <i>Nature</i> , <b>2000</b> , 403, 211-6	50.4	564
562	Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. <i>Cell Death and Differentiation</i> , <b>2009</b> , 16, 1093-107	12.7	533
561	AIF deficiency compromises oxidative phosphorylation. <i>EMBO Journal</i> , <b>2004</b> , 23, 4679-89	13	522
560	Regulation of myocardial contractility and cell size by distinct PI3K-PTEN signaling pathways. <i>Cell</i> , <b>2002</b> , 110, 737-49	56.2	497
559	Temporally regulated and tissue-specific gene manipulations in the adult and embryonic heart using a tamoxifen-inducible Cre protein. <i>Circulation Research</i> , <b>2001</b> , 89, 20-5	15.7	476
558	T cell-specific loss of Pten leads to defects in central and peripheral tolerance. <i>Immunity</i> , <b>2001</b> , 14, 523-34	32.3	474
557	Normal B lymphocyte development but impaired T cell maturation in CD45-exon6 protein tyrosine phosphatase-deficient mice. <i>Cell</i> , <b>1993</b> , 74, 143-56	56.2	460
556	CD45 is a JAK phosphatase and negatively regulates cytokine receptor signalling. <i>Nature</i> , <b>2001</b> , 409, 349-54	50.4	454
555	Osteoclast differentiation factor RANKL controls development of progestin-driven mammary cancer. <i>Nature</i> , <b>2010</b> , 468, 98-102	50.4	434
554	Apoptosis inducing factor (AIF): a phylogenetically old, caspase-independent effector of cell death. <i>Cell Death and Differentiation</i> , <b>1999</b> , 6, 516-24	12.7	406
553	Vav is a regulator of cytoskeletal reorganization mediated by the T-cell receptor. <i>Current Biology</i> , <b>1998</b> , 8, 554-62	6.3	393
552	The role of phosphoinositide-3 kinase and PTEN in cardiovascular physiology and disease. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2004</b> , 37, 449-71	5.8	381
551	Functional human T-cell immunity and osteoprotegerin ligand control alveolar bone destruction in periodontal infection. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 106, R59-67	15.9	380
550	RANK signals from CD4(+)3(-) inducer cells regulate development of Aire-expressing epithelial cells in the thymic medulla. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, 1267-72	16.6	378
549	Chlamydia infections and heart disease linked through antigenic mimicry. <i>Science</i> , <b>1999</b> , 283, 1335-9	33.3	374
548	The tumor necrosis factor family receptors RANK and CD40 cooperatively establish the thymic medullary microenvironment and self-tolerance. <i>Immunity</i> , <b>2008</b> , 29, 423-37	32.3	365
547	Dendritic cell-induced autoimmune heart failure requires cooperation between adaptive and innate immunity. <i>Nature Medicine</i> , <b>2003</b> , 9, 1484-90	50.5	345

546	Angiotensin-converting enzyme 2 suppresses pathological hypertrophy, myocardial fibrosis, and cardiac dysfunction. <i>Circulation</i> , <b>2010</b> , 122, 717-28, 18 p following 728	16.7	341
545	Epidermal RANKL controls regulatory T-cell numbers via activation of dendritic cells. <i>Nature Medicine</i> , <b>2006</b> , 12, 1372-9	50.5	339
544	Targeted deletion of AIF decreases mitochondrial oxidative phosphorylation and protects from obesity and diabetes. <i>Cell</i> , <b>2007</b> , 131, 476-91	56.2	332
543	The cytokine RANKL produced by positively selected thymocytes fosters medullary thymic epithelial cells that express autoimmune regulator. <i>Immunity</i> , <b>2008</b> , 29, 438-50	32.3	331
542	New gene functions in megakaryopoiesis and platelet formation. <i>Nature</i> , <b>2011</b> , 480, 201-8	50.4	330
541	The lipid phosphatase SHIP2 controls insulin sensitivity. <i>Nature</i> , <b>2001</b> , 409, 92-7	50.4	326
540	Antigen receptor-induced activation and cytoskeletal rearrangement are impaired in Wiskott-Aldrich syndrome protein-deficient lymphocytes. <i>Journal of Experimental Medicine</i> , <b>1999</b> , 190, 1329-42	16.6	325
539	Stress-signalling kinase Sek1 protects thymocytes from apoptosis mediated by CD95 and CD3. <i>Nature</i> , <b>1997</b> , 385, 350-3	50.4	319
538	Tissue expression and immunolocalization of tumor necrosis factor-alpha in postinfarction dysfunctional myocardium. <i>Circulation</i> , <b>1999</b> , 99, 1492-8	16.7	318
537	The lipid mediator protectin D1 inhibits influenza virus replication and improves severe influenza. <i>Cell</i> , <b>2013</b> , 153, 112-25	56.2	315
536	RANK/RANKL: regulators of immune responses and bone physiology. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1143, 123-50	6.5	311
535	Identification and functional analysis of endothelial tip cell-enriched genes. <i>Blood</i> , <b>2010</b> , 116, 4025-33	2.2	303
534	NADH oxidase activity of mitochondrial apoptosis-inducing factor. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 16391-8	5.4	300
533	An immunosurveillance mechanism controls cancer cell ploidy. <i>Science</i> , <b>2012</b> , 337, 1678-84	33.3	299
532	The transcription factor NF-ATc1 regulates lymphocyte proliferation and Th2 cytokine production. <i>Immunity</i> , <b>1998</b> , 8, 115-24	32.3	298
531	A dual role for autophagy in a murine model of lung cancer. <i>Nature Communications</i> , <b>2014</b> , 5, 3056	17.4	296
530	Trilogy of ACE2: a peptidase in the renin-angiotensin system, a SARS receptor, and a partner for amino acid transporters. <i>Pharmacology &amp; Therapeutics</i> , <b>2010</b> , 128, 119-28	13.9	295
529	Angiotensin-converting enzyme 2 protects from lethal avian influenza A H5N1 infections. <i>Nature Communications</i> , <b>2014</b> , 5, 3594	17.4	294

528	Caloric Restriction Mimetics Enhance Anticancer Immunosurveillance. <i>Cancer Cell</i> , <b>2016</b> , 30, 147-160	24.3	285
527	The MAGUK family protein CARD11 is essential for lymphocyte activation. <i>Immunity</i> , <b>2003</b> , 18, 763-75	32.3	284
526	Drosophila genome-wide obesity screen reveals hedgehog as a determinant of brown versus white adipose cell fate. <i>Cell</i> , <b>2010</b> , 140, 148-60	56.2	283
525	The E3 ligase Cbl-b and TAM receptors regulate cancer metastasis via natural killer cells. <i>Nature</i> , <b>2014</b> , 507, 508-12	50.4	282
524	Essential role of the E3 ubiquitin ligase Cbl-b in T cell anergy induction. <i>Immunity</i> , <b>2004</b> , 21, 167-77	32.3	282
523	Impaired negative selection of T cells in Hodgkin's disease antigen CD30-deficient mice. <i>Cell</i> , <b>1996</b> , 84, 551-62	56.2	282
522	Human blood vessel organoids as a model of diabetic vasculopathy. <i>Nature</i> , <b>2019</b> , 565, 505-510	50.4	277
521	Angiotensin-converting enzyme 2 in lung diseases. <i>Current Opinion in Pharmacology</i> , <b>2006</b> , 6, 271-6	5.1	272
520	Identifying the MAGUK protein Carma-1 as a central regulator of humoral immune responses and atopy by genome-wide mouse mutagenesis. <i>Immunity</i> , <b>2003</b> , 18, 751-62	32.3	261
519	SHIP is a negative regulator of growth factor receptor-mediated PKB/Akt activation and myeloid cell survival. <i>Genes and Development</i> , <b>1999</b> , 13, 786-91	12.6	260
518	Seventy-five genetic loci influencing the human red blood cell. <i>Nature</i> , <b>2012</b> , 492, 369-75	50.4	257
517	Involvement of the IRF-1 transcription factor in antiviral responses to interferons. <i>Science</i> , <b>1994</b> , 264, 1921-4	33.3	257
516	Positive regulation of T cell activation and integrin adhesion by the adapter Fyb/Slap. <i>Science</i> , <b>2001</b> , 293, 2260-3	33.3	252
515	Pharmacokinetics and pharmacodynamics of recombinant human angiotensin-converting enzyme 2 in healthy human subjects. <i>Clinical Pharmacokinetics</i> , <b>2013</b> , 52, 783-92	6.2	251
514	Regulation of T cell activation, anxiety, and male aggression by RGS2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 12272-7	11.5	248
513	The adaptor protein CARD9 is essential for the activation of myeloid cells through ITAM-associated and Toll-like receptors. <i>Nature Immunology</i> , <b>2007</b> , 8, 619-29	19.1	245
512	Genome-wide RNAi screen identifies genes involved in intestinal pathogenic bacterial infection. <i>Science</i> , <b>2009</b> , 325, 340-3	33.3	244
511	Control of cell polarity and motility by the PtdIns(3,4,5)P3 phosphatase SHIP1. <i>Nature Cell Biology</i> , <b>2007</b> , 9, 36-44	23.4	237

510	Human recombinant ACE2 reduces the progression of diabetic nephropathy. <i>Diabetes</i> , <b>2010</b> , 59, 529-38	0.9	234
509	DREAM is a critical transcriptional repressor for pain modulation. <i>Cell</i> , <b>2002</b> , 108, 31-43	56.2	234
508	CD45: new jobs for an old acquaintance. <i>Nature Immunology</i> , <b>2001</b> , 2, 389-96	19.1	232
507	Targeting the degradation of angiotensin II with recombinant angiotensin-converting enzyme 2: prevention of angiotensin II-dependent hypertension. <i>Hypertension</i> , <b>2010</b> , 55, 90-8	8.5	226
506	Angiotensin converting enzyme-2 confers endothelial protection and attenuates atherosclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 295, H1377-84	5.2	223
505	Coupling of bone resorption and formation by RANKL reverse signalling. <i>Nature</i> , <b>2018</b> , 561, 195-200	50.4	221
504	AIF and cyclophilin A cooperate in apoptosis-associated chromatinolysis. <i>Oncogene</i> , <b>2004</b> , 23, 1514-21	9.2	220
503	Hypertension and prolonged vasoconstrictor signaling in RGS2-deficient mice. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 445-52	15.9	220
502	The discovery of angiotensin-converting enzyme 2 and its role in acute lung injury in mice. <i>Experimental Physiology</i> , <b>2008</b> , 93, 543-8	2.4	219
501	Impaired heart contractility in Apelin gene-deficient mice associated with aging and pressure overload. <i>Circulation Research</i> , <b>2007</b> , 101, e32-42	15.7	219
500	A genome-wide Drosophila screen for heat nociception identifies <i>TRPA</i> as an evolutionarily conserved pain gene. <i>Cell</i> , <b>2010</b> , 143, 628-38	56.2	217
499	Loss of angiotensin-converting enzyme-2 ( <i>Ace2</i> ) accelerates diabetic kidney injury. <i>American Journal of Pathology</i> , <b>2007</b> , 171, 438-51	5.8	213
498	T-bet negatively regulates autoimmune myocarditis by suppressing local production of interleukin 17. <i>Journal of Experimental Medicine</i> , <b>2006</b> , 203, 2009-19	16.6	210
497	Dominant cell death induction by extramitochondrially targeted apoptosis-inducing factor. <i>FASEB Journal</i> , <b>2001</b> , 15, 758-67	0.9	210
496	Silencing Nociceptor Neurons Reduces Allergic Airway Inflammation. <i>Neuron</i> , <b>2015</b> , 87, 341-54	13.9	203
495	Apoptosis control in syncytia induced by the HIV type 1-envelope glycoprotein complex: role of mitochondria and caspases. <i>Journal of Experimental Medicine</i> , <b>2000</b> , 192, 1081-92	16.6	203
494	Loss of angiotensin-converting enzyme-2 leads to the late development of angiotensin II-dependent glomerulosclerosis. <i>American Journal of Pathology</i> , <b>2006</b> , 168, 1808-20	5.8	200
493	Cutting edge: differential roles for phosphoinositide 3-kinases, p110gamma and p110delta, in lymphocyte chemotaxis and homing. <i>Journal of Immunology</i> , <b>2004</b> , 173, 2236-40	5.3	200

492	Human recombinant soluble ACE2 in severe COVID-19. <i>Lancet Respiratory Medicine</i> , <b>2020</b> , 8, 1154-1158	11.1	199
491	No death without life: vital functions of apoptotic effectors. <i>Cell Death and Differentiation</i> , <b>2008</b> , 15, 1113-23	12.7	198
490	LGR4 is a receptor for RANKL and negatively regulates osteoclast differentiation and bone resorption. <i>Nature Medicine</i> , <b>2016</b> , 22, 539-46	50.5	198
489	Immunity by ubiquitylation: a reversible process of modification. <i>Nature Reviews Immunology</i> , <b>2005</b> , 5, 941-52	36.5	197
488	The inositol polyphosphate 5-phosphatase ship is a crucial negative regulator of B cell antigen receptor signaling. <i>Journal of Experimental Medicine</i> , <b>1998</b> , 188, 1333-42	16.6	196
487	Angiotensin-converting enzyme 2 (ACE2) mediates influenza H7N9 virus-induced acute lung injury. <i>Scientific Reports</i> , <b>2014</b> , 4, 7027	4.9	195
486	Angiotensin-converting enzyme II in the heart and the kidney. <i>Circulation Research</i> , <b>2006</b> , 98, 463-71	15.7	195
485	The actin cytoskeleton and lymphocyte activation. <i>Cell</i> , <b>1999</b> , 96, 9-12	56.2	192
484	Hedgehog partial agonism drives Warburg-like metabolism in muscle and brown fat. <i>Cell</i> , <b>2012</b> , 151, 414-26	45.6	191
483	Cbl-b is a negative regulator of receptor clustering and raft aggregation in T cells. <i>Immunity</i> , <b>2000</b> , 13, 463-73	32.3	189
482	Tissue-specific amino acid transporter partners ACE2 and collectrin differentially interact with hartnup mutations. <i>Gastroenterology</i> , <b>2009</b> , 136, 872-82	13.3	186
481	Cardiac regulation by phosphoinositide 3-kinases and PTEN. <i>Cardiovascular Research</i> , <b>2009</b> , 82, 250-60	9.9	185
480	The histone chaperone CAF-1 safeguards somatic cell identity. <i>Nature</i> , <b>2015</b> , 528, 218-24	50.4	183
479	Prevention of angiotensin II-mediated renal oxidative stress, inflammation, and fibrosis by angiotensin-converting enzyme 2. <i>Hypertension</i> , <b>2011</b> , 57, 314-22	8.5	183
478	Monoglyceride lipase deficiency in mice impairs lipolysis and attenuates diet-induced insulin resistance. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 17467-77	5.4	183
477	The role of ACE2 in cardiovascular physiology. <i>Trends in Cardiovascular Medicine</i> , <b>2003</b> , 13, 93-101	6.9	182
476	Functional Recovery of a Human Neonatal Heart After Severe Myocardial Infarction. <i>Circulation Research</i> , <b>2016</b> , 118, 216-21	15.7	181
475	Forward and reverse genetics through derivation of haploid mouse embryonic stem cells. <i>Cell Stem Cell</i> , <b>2011</b> , 9, 563-74	18	180



474	Angiotensin II-mediated oxidative stress and inflammation mediate the age-dependent cardiomyopathy in ACE2 null mice. <i>Cardiovascular Research</i> , <b>2007</b> , 75, 29-39	9.9	180
473	CXCL10-CXCR3 enhances the development of neutrophil-mediated fulminant lung injury of viral and nonviral origin. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 187, 65-77	10.2	178
472	Involvement of phosphoinositide 3-kinases in neutrophil activation and the development of acute lung injury. <i>Journal of Immunology</i> , <b>2001</b> , 167, 6601-8	5.3	175
471	Muscle-specific loss of apoptosis-inducing factor leads to mitochondrial dysfunction, skeletal muscle atrophy, and dilated cardiomyopathy. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 10261-72	4.8	174
470	Loss of angiotensin-converting enzyme 2 accelerates maladaptive left ventricular remodeling in response to myocardial infarction. <i>Circulation: Heart Failure</i> , <b>2009</b> , 2, 446-55	7.6	173
469	Central control of fever and female body temperature by RANKL/RANK. <i>Nature</i> , <b>2009</b> , 462, 505-9	50.4	173
468	Decreased glomerular and tubular expression of ACE2 in patients with type 2 diabetes and kidney disease. <i>Kidney International</i> , <b>2008</b> , 74, 1610-6	9.9	172
467	A global in vivo <i>Drosophila</i> RNAi screen identifies NOT3 as a conserved regulator of heart function. <i>Cell</i> , <b>2010</b> , 141, 142-53	56.2	171
466	Blockade of receptor activator of nuclear factor- $\kappa$ B (RANKL) signaling improves hepatic insulin resistance and prevents development of diabetes mellitus. <i>Nature Medicine</i> , <b>2013</b> , 19, 358-63	50.5	169
465	Vav1 controls integrin clustering and MHC/peptide-specific cell adhesion to antigen-presenting cells. <i>Immunity</i> , <b>2002</b> , 16, 331-43	32.3	168
464	CLP1 links tRNA metabolism to progressive motor-neuron loss. <i>Nature</i> , <b>2013</b> , 495, 474-80	50.4	166
463	Essential role for collectrin in renal amino acid transport. <i>Nature</i> , <b>2006</b> , 444, 1088-91	50.4	166
462	Essential role of Fkbp6 in male fertility and homologous chromosome pairing in meiosis. <i>Science</i> , <b>2003</b> , 300, 1291-5	33.3	165
461	Distribution of angiotensin-(1-7) and ACE2 in human placentas of normal and pathological pregnancies. <i>Placenta</i> , <b>2006</b> , 27, 200-7	3.4	162
460	The role of endothelial PI3K $\gamma$ activity in neutrophil trafficking. <i>Blood</i> , <b>2005</b> , 106, 150-7	2.2	156
459	Dissociating the dual roles of apoptosis-inducing factor in maintaining mitochondrial structure and apoptosis. <i>EMBO Journal</i> , <b>2006</b> , 25, 4061-73	13	155
458	Complete cardiac regeneration in a mouse model of myocardial infarction. <i>Aging</i> , <b>2012</b> , 4, 966-77	5.6	154
457	The molecular scaffold Gab2 is a crucial component of RANK signaling and osteoclastogenesis. <i>Nature Medicine</i> , <b>2005</b> , 11, 394-9	50.5	152

456	Susceptibility to myocarditis is dependent on the response of alphabeta T lymphocytes to coxsackieviral infection. <i>Circulation Research</i> , <b>1999</b> , 85, 551-8	15.7	151
455	Neuregulin stimulation of cardiomyocyte regeneration in mice and human myocardium reveals a therapeutic window. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 281ra45	17.5	148
454	Human CLP1 mutations alter tRNA biogenesis, affecting both peripheral and central nervous system function. <i>Cell</i> , <b>2014</b> , 157, 636-50	56.2	147
453	Identification of cardiac myosin peptides capable of inducing autoimmune myocarditis in BALB/c mice. <i>Journal of Clinical Investigation</i> , <b>1996</b> , 97, 2057-62	15.9	145
452	Apelin treatment increases complete Fatty Acid oxidation, mitochondrial oxidative capacity, and biogenesis in muscle of insulin-resistant mice. <i>Diabetes</i> , <b>2012</b> , 61, 310-20	0.9	142
451	Loss of Apelin exacerbates myocardial infarction adverse remodeling and ischemia-reperfusion injury: therapeutic potential of synthetic Apelin analogues. <i>Journal of the American Heart Association</i> , <b>2013</b> , 2, e000249	6	142
450	ACE2 Deficiency Worsens Epicardial Adipose Tissue Inflammation and Cardiac Dysfunction in Response to Diet-Induced Obesity. <i>Diabetes</i> , <b>2016</b> , 65, 85-95	0.9	138
449	Osteoprotegerin ligand: a regulator of immune responses and bone physiology. <i>Trends in Immunology</i> , <b>2000</b> , 21, 495-502		137
448	The crystal structure of the mouse apoptosis-inducing factor AIF. <i>Nature Structural Biology</i> , <b>2002</b> , 9, 442-6		136
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1 Molecular Mimicry and Heart Disease 69-82