James M Murphy

List of Publications by Year in Descending Order

153 papers	7,452 citations	48 h-index	82 g-index
167 ext. papers	9,566 ext. citations	10 avg, IF	6.24 L-index

#	Paper	IF	Citations
153	Co-expression of recombinant RIPK3:MLKL complexes using the baculovirus-insect cell system.. *Methods in Enzymology*, **2022**, 667, 183-227	1.7	0
152	Membrane permeabilization is mediated by distinct epitopes in mouse and human orthologs of the necroptosis effector, MLKL.. *Cell Death and Differentiation*, **2022**,	12.7	4
151	The Lck inhibitor, AMG-47a, blocks necroptosis and implicates RIPK1 in signalling downstream of MLKL.. *Cell Death and Disease*, **2022**, 13, 291	9.8	1
150	CRISPR deletions in cell lines for reconstitution studies of pseudokinase function.. *Methods in Enzymology*, **2022**, 667, 229-273	1.7	
149	Development of NanoLuc-targeting protein degraders and a universal reporter system to benchmark tag-targeted degradation platforms.. *Nature Communications*, **2022**, 13, 2073	17.4	0
148	Human RIPK3 maintains MLKL in an inactive conformation prior to cell death by necroptosis. *Nature Communications*, **2021**, 12, 6783	17.4	10
147	Structural and functional analysis of target recognition by the lymphocyte adaptor protein LNK. *Nature Communications*, **2021**, 12, 6110	17.4	0
146	Oligomerization-driven MLKL ubiquitylation antagonizes necroptosis. *EMBO Journal*, **2021**, 40, e103718	13	11
145	For Whom the Bell Tolls: The Structure of the Dead Kinase, IRAK3. *Structure*, **2021**, 29, 197-199	5.2	1
144	Mechanism of NanR gene repression and allosteric induction of bacterial sialic acid metabolism. *Nature Communications*, **2021**, 12, 1988	17.4	6
143	A family harboring an MLKL loss of function variant implicates impaired necroptosis in diabetes. *Cell Death and Disease*, **2021**, 12, 345	9.8	8
142	Conformational interconversion of MLKL and disengagement from RIPK3 precede cell death by necroptosis. *Nature Communications*, **2021**, 12, 2211	17.4	19
141	The ubiquitylation of IL-1βlimits its cleavage by caspase-1 and targets it for proteasomal degradation. *Nature Communications*, **2021**, 12, 2713	17.4	12
140	Ubiquitylation of MLKL at lysine 219 positively regulates necroptosis-induced tissue injury and pathogen clearance. *Nature Communications*, **2021**, 12, 3364	17.4	9
139	Add necroptosis to your asthma action plan. *Immunology and Cell Biology*, **2021**, 99, 800-802	5	
138	SMCHD1's ubiquitin-like domain is required for N-terminal dimerization and chromatin localization. *Biochemical Journal*, **2021**, 478, 2555-2569	3.8	
137	Necroptosis is dispensable for the development of inflammation-associated or sporadic colon cancer in mice. *Cell Death and Differentiation*, **2021**, 28, 1466-1476	12.7	10

136	Phosphorylation by Aurora B kinase regulates caspase-2 activity and function. *Cell Death and Differentiation*, **2021**, 28, 349-366	12.7	9
135	The regulation of necroptosis by post-translational modifications. *Cell Death and Differentiation*, **2021**, 28, 861-883	12.7	27
134	The necroptotic cell death pathway operates in megakaryocytes, but not in platelet synthesis. *Cell Death and Disease*, **2021**, 12, 133	9.8	3
133	There's more to death than life: Noncatalytic functions in kinase and pseudokinase signaling. *Journal of Biological Chemistry*, **2021**, 296, 100705	5.4	16
132	Location, location, location: A compartmentalized view of TNF-induced necroptotic signaling. *Science Signaling*, **2021**, 14,	8.8	20
131	Granulovirus PK-1 kinase activity relies on a side-to-side dimerization mode centered on the regulatory □C helix. *Nature Communications*, **2021**, 12, 1002	17.4	4
130	A toolbox for imaging RIPK1, RIPK3, and MLKL in mouse and human cells. *Cell Death and Differentiation*, **2021**, 28, 2126-2144	12.7	12
129	Necroptosis Signaling Promotes Inflammation, Airway Remodeling, and Emphysema in Chronic Obstructive Pulmonary Disease. *American Journal of Respiratory and Critical Care Medicine*, **2021**, 204, 667-681	10.2	15
128	The intracellular domains of the EphB6 and EphA10 receptor tyrosine pseudokinases function as dynamic signalling hubs. *Biochemical Journal*, **2021**, 478, 3351-3371	3.8	2
127	Crystal structure of the hinge domain of Smchd1 reveals its dimerization mode and nucleic acid-binding residues. *Science Signaling*, **2020**, 13,	8.8	8
126	Distinct pseudokinase domain conformations underlie divergent activation mechanisms among vertebrate MLKL orthologues. *Nature Communications*, **2020**, 11, 3060	17.4	30
125	MLKL trafficking and accumulation at the plasma membrane control the kinetics and threshold for necroptosis. *Nature Communications*, **2020**, 11, 3151	17.4	75
124	A missense mutation in the MLKL brace region promotes lethal neonatal inflammation and hematopoietic dysfunction. *Nature Communications*, **2020**, 11, 3150	17.4	41
123	Identification of MLKL membrane translocation as a checkpoint in necroptotic cell death using Monobodies. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 8468-8475	11.5	34
122	Relating SMCHD1 structure to its function in epigenetic silencing. *Biochemical Society Transactions*, **2020**, 48, 1751-1763	5.1	4
121	The Killer Pseudokinase Mixed Lineage Kinase Domain-Like Protein (MLKL). *Cold Spring Harbor Perspectives in Biology*, **2020**, 12,	10.2	34
120	The PEAK family of pseudokinases, their role in cell signalling and cancer. *FEBS Journal*, **2020**, 287, 4183-4197	5.7	8
119	Necroptosis is dispensable for motor neuron degeneration in a mouse model of ALS. *Cell Death and Differentiation*, **2020**, 27, 1728-1739	12.7	30

118	Discovery of a Family of Mixed Lineage Kinase Domain-like Proteins in Plants and Their Role in Innate Immune Signaling. *Cell Host and Microbe*, **2020**, 28, 813-824.e6	23.4	21
117	BAK core dimers bind lipids and can be bridged by them. *Nature Structural and Molecular Biology*, **2020**, 27, 1024-1031	17.6	23
116	Potent Inhibition of Necroptosis by Simultaneously Targeting Multiple Effectors of the Pathway. *ACS Chemical Biology*, **2020**, 15, 2702-2713	4.9	11
115	Structure-based mechanism of preferential complex formation by apoptosis signal-regulating kinases. *Science Signaling*, **2020**, 13,	8.8	10
114	The long-awaited structure of HIPK2. *Journal of Biological Chemistry*, **2019**, 294, 13560-13561	5.4	3
113	Viral MLKL Homologs Subvert Necroptotic Cell Death by Sequestering Cellular RIPK3. *Cell Reports*, **2019**, 28, 3309-3319.e5	10.6	48
112	SMCHD1 is involved in de novo methylation of the DUX4-encoding D4Z4 macrosatellite. *Nucleic Acids Research*, **2019**, 47, 2822-2839	20.1	23
111	Activated MLKL attenuates autophagy following its translocation to intracellular membranes. *Journal of Cell Science*, **2019**, 132,	5.3	27
110	The Pyroptotic Cell Death Effector Gasdermin D Is Activated by Gout-Associated Uric Acid Crystals but Is Dispensable for Cell Death and IL-1βRelease. *Journal of Immunology*, **2019**, 203, 736-748	5.3	45
109	Regulated necrosis in kidney ischemia-reperfusion injury. *Kidney International*, **2019**, 96, 291-301	9.9	82
108	Eph receptor signalling: from catalytic to non-catalytic functions. *Oncogene*, **2019**, 38, 6567-6584	9.2	48
107	Emerging concepts in pseudoenzyme classification, evolution, and signaling. *Science Signaling*, **2019** , 12,	8.8	51
106	The anticonvulsive Phenhydan suppresses extrinsic cell death. *Cell Death and Differentiation*, **2019**, 26, 1631-1645	12.7	14
105	The Structural Basis of Necroptotic Cell Death Signaling. *Trends in Biochemical Sciences*, **2019**, 44, 53-63	10.3	87
104	The molecular basis of JAK/STAT inhibition by SOCS1. *Nature Communications*, **2018**, 9, 1558	17.4	141
103	An optimized SEC-SAXS system enabling high X-ray dose for rapid SAXS assessment with correlated UV measurements for biomolecular structure analysis. *Journal of Applied Crystallography*, **2018**, 51, 97-111	3.8	41
102	The brace helices of MLKL mediate interdomain communication and oligomerisation to regulate cell death by necroptosis. *Cell Death and Differentiation*, **2018**, 25, 1567-1580	12.7	46
101	Monosodium Urate Crystals Generate Nuclease-Resistant Neutrophil Extracellular Traps via a Distinct Molecular Pathway. *Journal of Immunology*, **2018**, 200, 1802-1816	5.3	54

100	Identification of a second binding site on the TRIM25 B30.2 domain. *Biochemical Journal*, **2018**, 475, 429-440	3.8	10
99	Transferrin receptor 1 is a reticulocyte-specific receptor for. *Science*, **2018**, 359, 48-55	33.3	96
98	FSHD2- and BAMS-associated mutations confer opposing effects on SMCHD1 function. *Journal of Biological Chemistry*, **2018**, 293, 9841-9853	5.4	19
97	Smchd1 regulates long-range chromatin interactions on the inactive X chromosome and at Hox clusters. *Nature Structural and Molecular Biology*, **2018**, 25, 766-777	17.6	47
96	Conformational switching of the pseudokinase domain promotes human MLKL tetramerization and cell death by necroptosis. *Nature Communications*, **2018**, 9, 2422	17.4	85
95	CHAPTER 13:A Structural Perspective of the Pseudokinome: Defining the Targetable Space. *RSC Drug Discovery Series*, **2018**, 359-380	0.6	3
94	Smchd1 Targeting to the Inactive X Is Dependent on the Xist-HnrnpK-PRC1 Pathway. *Cell Reports*, **2018**, 25, 1912-1923.e9	10.6	29
93	A bidentate Polycomb Repressive-Deubiquitinase complex is required for efficient activity on nucleosomes. *Nature Communications*, **2018**, 9, 3932	17.4	14
92	Cryo-EM structure of an essential Plasmodium vivax invasion complex. *Nature*, **2018**, 559, 135-139	50.4	26
91	Active MLKL triggers the NLRP3 inflammasome in a cell-intrinsic manner. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E961-E969	11.5	210
90	De novo mutations in SMCHD1 cause Bosma arhinia microphthalmia syndrome and abrogate nasal development. *Nature Genetics*, **2017**, 49, 249-255	36.3	60
89	EspL is a bacterial cysteine protease effector that cleaves RHIM proteins to block necroptosis and inflammation. *Nature Microbiology*, **2017**, 2, 16258	26.6	100
88	The Epigenetic Regulator SMCHD1 in Development and Disease. *Trends in Genetics*, **2017**, 33, 233-243	8.5	36
87	Regression of devil facial tumour disease following immunotherapy in immunised Tasmanian devils. *Scientific Reports*, **2017**, 7, 43827	4.9	42
86	Structural basis of autoregulatory scaffolding by apoptosis signal-regulating kinase 1. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2096-E2105	11.5	24
85	Bio-Zombie: the rise of pseudoenzymes in biology. *Biochemical Society Transactions*, **2017**, 45, 537-544	5.1	56
84	MK2 Phosphorylates RIPK1 to Prevent TNF-Induced Cell Death. *Molecular Cell*, **2017**, 66, 698-710.e5	17.6	154
83	Down the rabbit hole: Is necroptosis truly an innate response to infection?. *Cellular Microbiology*, **2017**, 19, e12750	3.9	25

82	The secret life of kinases: insights into non-catalytic signalling functions from pseudokinases. *Biochemical Society Transactions*, **2017**, 45, 665-681	5.1	49
81	Necroptosis and ferroptosis are alternative cell death pathways that operate in acute kidney failure. *Cellular and Molecular Life Sciences*, **2017**, 74, 3631-3645	10.3	167
80	Laser-mediated rupture of chlamydial inclusions triggers pathogen egress and host cell necrosis. *Nature Communications*, **2017**, 8, 14729	17.4	12
79	Insane in the membrane: a structural perspective of MLKL function in necroptosis. *Immunology and Cell Biology*, **2017**, 95, 152-159	5	50
78	Structure of SgK223 pseudokinase reveals novel mechanisms of homotypic and heterotypic association. *Nature Communications*, **2017**, 8, 1157	17.4	25
77	Live and let die: insights into pseudoenzyme mechanisms from structure. *Current Opinion in Structural Biology*, **2017**, 47, 95-104	8.1	71
76	Characterization of Ligand Binding to Pseudokinases Using a Thermal Shift Assay. *Methods in Molecular Biology*, **2017**, 1636, 91-104	1.4	12
75	The Highway to Hell: A RIP Kinase-Directed Shortcut to Inflammatory Cytokine Production. *Immunity*, **2016**, 45, 1-3	32.3	18
74	The evolving world of pseudoenzymes: proteins, prejudice and zombies. *BMC Biology*, **2016**, 14, 98	7.3	59
73	The epigenetic regulator Smchd1 contains a functional GHKL-type ATPase domain. *Biochemical Journal*, **2016**, 473, 1733-44	3.8	19
72	Evolution of Protein Quaternary Structure in Response to Selective Pressure for Increased Thermostability. *Journal of Molecular Biology*, **2016**, 428, 2359-2371	6.5	26
71	Evolutionary divergence of the necroptosis effector MLKL. *Cell Death and Differentiation*, **2016**, 23, 1185-97	12.7	70
70	The hinge domain of the epigenetic repressor Smchd1 adopts an unconventional homodimeric configuration. *Biochemical Journal*, **2016**, 473, 733-42	3.8	14
69	Structurally conserved erythrocyte-binding domain in Plasmodium provides a versatile scaffold for alternate receptor engagement. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E191-200	11.5	34
68	HSP90 activity is required for MLKL oligomerisation and membrane translocation and the induction of necroptotic cell death. *Cell Death and Disease*, **2016**, 7, e2051	9.8	83
67	The pseudokinase MLKL mediates programmed hepatocellular necrosis independently of RIPK3 during hepatitis. *Journal of Clinical Investigation*, **2016**, 126, 4346-4360	15.9	98
66	PD-L1 Is Not Constitutively Expressed on Tasmanian Devil Facial Tumor Cells but Is Strongly Upregulated in Response to IFN-and Can Be Expressed in the Tumor Microenvironment. *Frontiers in Immunology*, **2016**, 7, 581	8.4	29
65	Mitogen-activated Tasmanian devil blood mononuclear cells kill devil facial tumour disease cells. *Immunology and Cell Biology*, **2016**, 94, 673-9	5	18

64	Structure and Functional Characterization of the Conserved JAK Interaction Region in the Intrinsically Disordered N-Terminus of SOCS5. *Biochemistry*, **2015**, 54, 4672-82	3.2	11
63	A RIPK2 inhibitor delays NOD signalling events yet prevents inflammatory cytokine production. *Nature Communications*, **2015**, 6, 6442	17.4	74
62	Molecular Mechanism of CCAAT-Enhancer Binding Protein Recruitment by the TRIB1 Pseudokinase. *Structure*, **2015**, 23, 2111-21	5.2	62
61	Genome-wide binding and mechanistic analyses of Smchd1-mediated epigenetic regulation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E3535-44	11.5	63
60	A tale of two domains - a structural perspective of the pseudokinase, MLKL. *FEBS Journal*, **2015**, 282, 4268-78	5.7	17
59	Necroptosis signalling is tuned by phosphorylation of MLKL residues outside the pseudokinase domain activation loop. *Biochemical Journal*, **2015**, 471, 255-65	3.8	76
58	Flicking the molecular switch underlying MLKL-mediated necroptosis. *Molecular and Cellular Oncology*, **2015**, 2, e985550	1.2	2
57	Post-translational control of RIPK3 and MLKL mediated necroptotic cell death. *F1000Research*, **2015**, 4,	3.6	32
56	Analysis of the N-terminal region of human MLKL, as well as two distinct MLKL isoforms, reveals new insights into necroptotic cell death. *Bioscience Reports*, **2015**, 36, e00291	4.1	14
55	More to life than death: molecular determinants of necroptotic and non-necroptotic RIP3 kinase signaling. *Current Opinion in Immunology*, **2014**, 26, 76-89	7.8	60
54	RIPK1 regulates RIPK3-MLKL-driven systemic inflammation and emergency hematopoiesis. *Cell*, **2014**, 157, 1175-88	56.2	400
53	Ars Moriendi; the art of dying well - new insights into the molecular pathways of necroptotic cell death. *EMBO Reports*, **2014**, 15, 155-64	6.5	54
52	Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15072-7	11.5	357
51	The molecular regulation of Janus kinase (JAK) activation. *Biochemical Journal*, **2014**, 462, 1-13	3.8	178
50	RIPK1- and RIPK3-induced cell death mode is determined by target availability. *Cell Death and Differentiation*, **2014**, 21, 1600-12	12.7	112
49	TNFR1-dependent cell death drives inflammation in Sharpin-deficient mice. *ELife*, **2014**, 3,	8.9	187
48	cIAPs and XIAP regulate myelopoiesis through cytokine production in an RIPK1- and RIPK3-dependent manner. *Blood*, **2014**, 123, 2562-72	2.2	121
47	Necroptosis induced by RIPK3 requires MLKL but not Drp1. *Cell Death and Disease*, **2014**, 5, e1086	9.8	75

46	Insights into the evolution of divergent nucleotide-binding mechanisms among pseudokinases revealed by crystal structures of human and mouse MLKL. *Biochemical Journal*, **2014**, 457, 369-77	3.8	79
45	Mechanistic insights into activation and SOCS3-mediated inhibition of myeloproliferative neoplasm-associated JAK2 mutants from biochemical and structural analyses. *Biochemical Journal*, **2014**, 458, 395-405	3.8	27
44	Crystal structure of the mouse interleukin-3 [illegible]receptor: insights into interleukin-3 binding and receptor activation. *Biochemical Journal*, **2014**, 463, 393-403	3.8	5
43	Functional characterization of c-Mpl ectodomain mutations that underlie congenital amegakaryocytic thrombocytopenia. *Growth Factors*, **2014**, 32, 18-26	1.6	12
42	A robust methodology to subclassify pseudokinases based on their nucleotide-binding properties. *Biochemical Journal*, **2014**, 457, 323-34	3.8	192
41	Lymphotoxin [illegible]induces apoptosis, necroptosis and inflammatory signals with the same potency as tumour necrosis factor. *FEBS Journal*, **2013**, 280, 5283-97	5.7	41
40	The pseudokinase MLKL mediates necroptosis via a molecular switch mechanism. *Immunity*, **2013**, 39, 443-53	32.3	717
39	TNF can activate RIPK3 and cause programmed necrosis in the absence of RIPK1. *Cell Death and Disease*, **2013**, 4, e465	9.8	110
38	SOCS3 binds specific receptor-JAK complexes to control cytokine signaling by direct kinase inhibition. *Nature Structural and Molecular Biology*, **2013**, 20, 469-76	17.6	176
37	In vitro JAK kinase activity and inhibition assays. *Methods in Molecular Biology*, **2013**, 967, 39-55	1.4	15
36	Dawn of the dead: protein pseudokinases signal new adventures in cell biology. *Biochemical Society Transactions*, **2013**, 41, 969-74	5.1	72
35	Regulation of Janus kinases by SOCS proteins. *Biochemical Society Transactions*, **2013**, 41, 1042-7	5.1	53
34	Epigenetic regulator Smchd1 functions as a tumor suppressor. *Cancer Research*, **2013**, 73, 1591-9	10.1	32
33	Techniques to examine nucleotide binding by pseudokinases. *Biochemical Society Transactions*, **2013**, 41, 975-80	5.1	14
32	High yield production of a soluble human interleukin-3 variant from E. coli with wild-type bioactivity and improved radiolabeling properties. *PLoS ONE*, **2013**, 8, e74376	3.7	11
31	Suppressor of Cytokine Signaling (SOCS) 5 utilises distinct domains for regulation of JAK1 and interaction with the adaptor protein Shc-1. *PLoS ONE*, **2013**, 8, e70536	3.7	33
30	Suppression of cytokine signaling by SOCS3: characterization of the mode of inhibition and the basis of its specificity. *Immunity*, **2012**, 36, 239-50	32.3	185
29	Exchange enhanced sensitivity gain for solvent-exchangeable protons in 2D 1H-15N heteronuclear correlation spectra acquired with band-selective pulses. *Journal of Magnetic Resonance*, **2011**, 211, 243-7	3	11

28	Murine interleukin-3: structure, dynamics, and conformational heterogeneity in solution. *Biochemistry*, **2011**, 50, 2464-77	3.2	16
27	An efficient high-throughput screening method for MYST family acetyltransferases, a new class of epigenetic drug targets. *Journal of Biomolecular Screening*, **2011**, 16, 1196-205		37
26	The role of interchain heterodisulfide formation in activation of the human common beta and mouse betaIL-3 receptors. *Journal of Biological Chemistry*, **2010**, 285, 24759-68	5.4	2
25	Two modes of beta-receptor recognition are mediated by distinct epitopes on mouse and human interleukin-3. *Journal of Biological Chemistry*, **2010**, 285, 22370-81	5.4	8
24	A convenient method for preparation of an engineered mouse interleukin-3 analog with high solubility and wild-type bioactivity. *Growth Factors*, **2010**, 28, 104-10	1.6	12
23	Critical roles for c-Myb in lymphoid priming and early B-cell development. *Blood*, **2010**, 115, 2796-805	2.2	52
22	The Ig-like domain of human GM-CSF receptor alpha plays a critical role in cytokine binding and receptor activation. *Biochemical Journal*, **2010**, 426, 307-17	3.8	18
21	1H, 13C and 15N resonance assignments of a highly-soluble murine interleukin-3 analogue with wild-type bioactivity. *Biomolecular NMR Assignments*, **2010**, 4, 73-7	0.7	6
20	A new isoform of interleukin-3 receptor {alpha} with novel differentiation activity and high affinity binding mode. *Journal of Biological Chemistry*, **2009**, 284, 5763-73	5.4	32
19	Structural studies of FF domains of the transcription factor CA150 provide insights into the organization of FF domain tandem arrays. *Journal of Molecular Biology*, **2009**, 393, 409-24	6.5	9
18	Characterization of kinase target phosphorylation consensus motifs using peptide SPOT arrays. *Methods in Molecular Biology*, **2009**, 570, 187-95	1.4	12
17	Rapid identification of linear protein domain binding motifs using peptide SPOT arrays. *Methods in Molecular Biology*, **2009**, 570, 175-85	1.4	9
16	Clarification of the role of N-glycans on the common beta-subunit of the human IL-3, IL-5 and GM-CSF receptors and the murine IL-3 beta-receptor in ligand-binding and receptor activation. *Cytokine*, **2008**, 42, 234-242	4	11
15	Point mutation in the gene encoding p300 suppresses thrombocytopenia in Mpl-/- mice. *Blood*, **2008**, 112, 3148-53	2.2	31
14	Conformational instability of the MARK3 UBA domain compromises ubiquitin recognition and promotes interaction with the adjacent kinase domain. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 14336-41	11.5	39
13	Determination of the Plk4/Sak consensus phosphorylation motif using peptide spots arrays. *FEBS Letters*, **2007**, 581, 77-83	3.8	22
12	Screening for PTB domain binding partners and ligand specificity using proteome-derived NPXY peptide arrays. *Molecular and Cellular Biology*, **2006**, 26, 8461-74	4.8	84
11	IL-3, IL-5, and GM-CSF signaling: crystal structure of the human beta-common receptor. *Vitamins and Hormones*, **2006**, 74, 1-30	2.5	66

10	Interleukin-3 binding to the murine betaIL-3 and human betac receptors involves functional epitopes formed by domains 1 and 4 of different protein chains. *Journal of Biological Chemistry*, **2004**, 279, 26500-8	5.4	18
9	Synthesis of functionalized piperidinones. *Journal of Organic Chemistry*, **2003**, 68, 2432-6	4.2	19
8	A novel functional epitope formed by domains 1 and 4 of the human common beta-subunit is involved in receptor activation by granulocyte macrophage colony-stimulating factor and interleukin 5. *Journal of Biological Chemistry*, **2003**, 278, 10572-7	5.4	28
7	Structure of the complete extracellular domain of the common beta subunit of the human GM-CSF, IL-3, and IL-5 receptors reveals a novel dimer configuration. *Cell*, **2001**, 104, 291-300	56.2	91
6	Mechanism of NanR gene repression and allosteric induction of bacterial sialic acid metabolism		1
5	A toolbox for imaging RIPK1, RIPK3 and MLKL in mouse and human cells		2
4	Long-range chromatin interactions on the inactive X and at Hox clusters are regulated by the non-canonical SMC protein Smchd1		3
3	Missense mutations in the MLKL brace region lead to lethal neonatal inflammation in mice and are present in high frequency in humans		4
2	Plant mixed lineage kinase domain-like proteins limit biotrophic pathogen growth		6
1	Membrane permeabilization is mediated by distinct epitopes in mouse and human orthologs of the necroptosis effector, MLKL		1