

Melanie H Cobb

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201
papers

23,330
citations

67
h-index

152
g-index

216
ext. papers

24,817
ext. citations

9.5
avg, IF

6.67
L-index

#	Paper	IF	Citations
201	Mitogen-activated protein (MAP) kinase pathways: regulation and physiological functions. <i>Endocrine Reviews</i> , 2001 , 22, 153-83	27.2	2971
200	Mitogen-activated protein kinase pathways. <i>Current Opinion in Cell Biology</i> , 1997 , 9, 180-6	9	2221
199	ERKs: a family of protein-serine/threonine kinases that are activated and tyrosine phosphorylated in response to insulin and NGF. <i>Cell</i> , 1991 , 65, 663-75	56.2	1710
198	How MAP kinases are regulated. <i>Journal of Biological Chemistry</i> , 1995 , 270, 14843-6	5.4	1403
197	MAP kinases. <i>Chemical Reviews</i> , 2001 , 101, 2449-76	68.1	741
196	MAP kinase pathways. <i>Progress in Biophysics and Molecular Biology</i> , 1999 , 71, 479-500	4.7	654
195	Activation mechanism of the MAP kinase ERK2 by dual phosphorylation. <i>Cell</i> , 1997 , 90, 859-69	56.2	643
194	Phosphorylation of the MAP kinase ERK2 promotes its homodimerization and nuclear translocation. <i>Cell</i> , 1998 , 93, 605-15	56.2	582
193	Atomic structure of the MAP kinase ERK2 at 2.3 Å resolution. <i>Nature</i> , 1994 , 367, 704-11	50.4	569
192	Structural basis of inhibitor selectivity in MAP kinases. <i>Structure</i> , 1998 , 6, 1117-28	5.2	395
191	Pharmacological inhibitors of MAPK pathways. <i>Trends in Pharmacological Sciences</i> , 2002 , 23, 40-5	13.2	377
190	WNK1, a novel mammalian serine/threonine protein kinase lacking the catalytic lysine in subdomain II. <i>Journal of Biological Chemistry</i> , 2000 , 275, 16795-801	5.4	376
189	New insights into the control of MAP kinase pathways. <i>Experimental Cell Research</i> , 1999 , 253, 255-70	4.2	367
188	A constitutively active and nuclear form of the MAP kinase ERK2 is sufficient for neurite outgrowth and cell transformation. <i>Current Biology</i> , 1998 , 8, 1141-50	6.3	286
187	Crystal structures of MAP kinase p38 complexed to the docking sites on its nuclear substrate MEF2A and activator MKK3b. <i>Molecular Cell</i> , 2002 , 9, 1241-9	17.6	274
186	The PHD domain of MEKK1 acts as an E3 ubiquitin ligase and mediates ubiquitination and degradation of ERK1/2. <i>Molecular Cell</i> , 2002 , 9, 945-56	17.6	269
185	IL-1 receptor-associated kinase modulates host responsiveness to endotoxin. <i>Journal of Immunology</i> , 2000 , 164, 4301-6	5.3	248

184	HTLV-I Tax protein binds to MEKK1 to stimulate I kappa B kinase activity and NF-kappa B activation. <i>Cell</i> , 1998 , 93, 875-84	56.2	243
183	Chloride sensing by WNK1 involves inhibition of autophosphorylation. <i>Science Signaling</i> , 2014 , 7, ra41	8.8	222
182	ASCL1 and NEUROD1 Reveal Heterogeneity in Pulmonary Neuroendocrine Tumors and Regulate Distinct Genetic Programs. <i>Cell Reports</i> , 2016 , 16, 1259-1272	10.6	193
181	Isolation of MEK5 and differential expression of alternatively spliced forms. <i>Journal of Biological Chemistry</i> , 1995 , 270, 28897-902	5.4	182
180	The roles of MAPKs in disease. <i>Cell Research</i> , 2008 , 18, 436-42	24.7	179
179	Reconstitution of mitogen-activated protein kinase phosphorylation cascades in bacteria. Efficient synthesis of active protein kinases. <i>Journal of Biological Chemistry</i> , 1997 , 272, 11057-62	5.4	172
178	Differential effects of PAK1-activating mutations reveal activity-dependent and -independent effects on cytoskeletal regulation. <i>Journal of Biological Chemistry</i> , 1998 , 273, 28191-8	5.4	166
177	Purification and properties of extracellular signal-regulated kinase 1, an insulin-stimulated microtubule-associated protein 2 kinase. <i>Biochemistry</i> , 1991 , 30, 278-86	3.2	165
176	WNK1 activates SGK1 to regulate the epithelial sodium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10315-20	11.5	161
175	Stimulation of NFkappa B activity by multiple signaling pathways requires PAK1. <i>Journal of Biological Chemistry</i> , 2000 , 275, 19693-9	5.4	158
174	Crystal structure of the kinase domain of WNK1, a kinase that causes a hereditary form of hypertension. <i>Structure</i> , 2004 , 12, 1303-11	5.2	156
173	WNK1 and OSR1 regulate the Na ⁺ , K ⁺ , 2Cl ⁻ cotransporter in HeLa cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10883-8	11.5	152
172	ASCL1 is a lineage oncogene providing therapeutic targets for high-grade neuroendocrine lung cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14788-93	11.5	144
171	TAO kinases mediate activation of p38 in response to DNA damage. <i>EMBO Journal</i> , 2007 , 26, 2005-14	13	143
170	Identification of substrates and regulators of the mitogen-activated protein kinase ERK5 using chimeric protein kinases. <i>Journal of Biological Chemistry</i> , 1998 , 273, 3854-60	5.4	137
169	The G protein-coupled taste receptor T1R1/T1R3 regulates mTORC1 and autophagy. <i>Molecular Cell</i> , 2012 , 47, 851-62	17.6	129
168	WNK1 activates ERK5 by an MEKK2/3-dependent mechanism. <i>Journal of Biological Chemistry</i> , 2004 , 279, 7826-31	5.4	129
167	Mutation of position 52 in ERK2 creates a nonproductive binding mode for adenosine 5Triphosphate. <i>Biochemistry</i> , 1996 , 35, 5641-6	3.2	129

166	ERKs, extracellular signal-regulated MAP-2 kinases. <i>Current Opinion in Cell Biology</i> , 1991 , 3, 1025-32	9	129
165	ERK2 enters the nucleus by a carrier-independent mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 7496-501	11.5	128
164	Regulation of insulin gene transcription by ERK1 and ERK2 in pancreatic beta cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 32969-77	5.4	123
163	Overview of the Alliance for Cellular Signaling. <i>Nature</i> , 2002 , 420, 703-6	50.4	120
162	FAK phosphorylation by ERK primes ras-induced tyrosine dephosphorylation of FAK mediated by PIN1 and PTP-PEST. <i>Molecular Cell</i> , 2009 , 35, 11-25	17.6	119
161	Isolation of TAO1, a protein kinase that activates MEKs in stress-activated protein kinase cascades. <i>Journal of Biological Chemistry</i> , 1998 , 273, 28625-32	5.4	115
160	Regulation of WNK1 by an autoinhibitory domain and autophosphorylation. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48456-62	5.4	110
159	Regulation of ERK1 and ERK2 by glucose and peptide hormones in pancreatic beta cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 32517-25	5.4	109
158	ERK5 and ERK2 cooperate to regulate NF-kappaB and cell transformation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 7927-31	5.4	109
157	Small Cell Lung Cancer: Can Recent Advances in Biology and Molecular Biology Be Translated into Improved Outcomes?. <i>Journal of Thoracic Oncology</i> , 2016 , 11, 453-74	8.9	106
156	Properties of WNK1 and implications for other family members. <i>Journal of Biological Chemistry</i> , 2005 , 280, 26653-8	5.4	105
155	Contribution of the ERK5/MEK5 pathway to Ras/Raf signaling and growth control. <i>Journal of Biological Chemistry</i> , 1999 , 274, 31588-92	5.4	105
154	Activity of the MAP kinase ERK2 is controlled by a flexible surface loop. <i>Structure</i> , 1995 , 3, 299-307	5.2	105
153	NGF and other growth factors induce an association between ERK1 and the NGF receptor, gp140prototrkr. <i>Neuron</i> , 1992 , 9, 1053-65	13.9	102
152	MEKK1 binds raf-1 and the ERK2 cascade components. <i>Journal of Biological Chemistry</i> , 2000 , 275, 40120-3	7.4	98
151	MEKK1 binds directly to the c-Jun N-terminal kinases/stress-activated protein kinases. <i>Journal of Biological Chemistry</i> , 1997 , 272, 32056-60	5.4	92
150	MAP kinase modules: many roads home. <i>Current Biology</i> , 2003 , 13, R886-8	6.3	91
149	ERK1/2-dependent activation of transcription factors required for acute and chronic effects of glucose on the insulin gene promoter. <i>Journal of Biological Chemistry</i> , 2005 , 280, 26751-9	5.4	91

148	Activation of mitogen-activated protein kinase cascades by p21-activated protein kinases in cell-free extracts of <i>Xenopus</i> oocytes. <i>Journal of Biological Chemistry</i> , 1995 , 270, 26067-70	5.4	88
147	The N-terminal ERK-binding site of MEK1 is required for efficient feedback phosphorylation by ERK2 in vitro and ERK activation in vivo. <i>Journal of Biological Chemistry</i> , 1999 , 274, 34029-35	5.4	87
146	WNK1 activates SGK1 by a phosphatidylinositol 3-kinase-dependent and non-catalytic mechanism. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34218-23	5.4	86
145	Enteroid Monolayers Reveal an Autonomous WNT and BMP Circuit Controlling Intestinal Epithelial Growth and Organization. <i>Developmental Cell</i> , 2018 , 44, 624-633.e4	10.2	85
144	MEKK1 interacts with alpha-actinin and localizes to stress fibers and focal adhesions. <i>Cytoskeleton</i> , 1999 , 43, 186-98		82
143	PTMap--a sequence alignment software for unrestricted, accurate, and full-spectrum identification of post-translational modification sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 761-6	11.5	81
142	Stimulus-coupled spatial restriction of extracellular signal-regulated kinase 1/2 activity contributes to the specificity of signal-response pathways. <i>Molecular and Cellular Biology</i> , 2004 , 24, 10145-50	4.8	80
141	ERK3 is a constitutively nuclear protein kinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 8951-8	5.4	79
140	Identification of novel point mutations in ERK2 that selectively disrupt binding to MEK1. <i>Journal of Biological Chemistry</i> , 2002 , 277, 14844-52	5.4	77
139	Stress pathway activation induces phosphorylation of retinoid X receptor. <i>Journal of Biological Chemistry</i> , 2000 , 275, 32193-9	5.4	77
138	Isolation of the protein kinase TAO2 and identification of its mitogen-activated protein kinase/extracellular signal-regulated kinase kinase binding domain. <i>Journal of Biological Chemistry</i> , 1999 , 274, 28803-7	5.4	74
137	Stimulus-specific requirements for MAP3 kinases in activating the JNK pathway. <i>Journal of Biological Chemistry</i> , 2002 , 277, 49105-10	5.4	72
136	WNK1 phosphorylates synaptotagmin 2 and modulates its membrane binding. <i>Molecular Cell</i> , 2004 , 15, 741-51	17.6	70
135	Hydrophobic as well as charged residues in both MEK1 and ERK2 are important for their proper docking. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26509-15	5.4	69
134	The death effector domain protein PEA-15 prevents nuclear entry of ERK2 by inhibiting required interactions. <i>Journal of Biological Chemistry</i> , 2004 , 279, 12840-7	5.4	67
133	Characterization of OSR1, a member of the mammalian Ste20p/germinal center kinase subfamily. <i>Journal of Biological Chemistry</i> , 2004 , 279, 11129-36	5.4	66
132	RhoA binds to the amino terminus of MEKK1 and regulates its kinase activity. <i>Journal of Biological Chemistry</i> , 2004 , 279, 1872-7	5.4	66
131	Protein kinases. <i>Current Opinion in Structural Biology</i> , 1994 , 4, 833-40	8.1	65

130	Mechanisms of the amplifying pathway of insulin secretion in the β cell. <i>Pharmacology & Therapeutics</i> , 2017 , 179, 17-30	13.9	62
129	Contributions of the mitogen-activated protein (MAP) kinase backbone and phosphorylation loop to MEK specificity. <i>Journal of Biological Chemistry</i> , 1996 , 271, 29734-9	5.4	61
128	Chromatin-bound mitogen-activated protein kinases transmit dynamic signals in transcription complexes in beta-cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13315-20	11.5	60
127	Minireview: Nutrient sensing by G protein-coupled receptors. <i>Molecular Endocrinology</i> , 2013 , 27, 1188-97		58
126	Crystal structure of the TAO2 kinase domain: activation and specificity of a Ste20p MAP3K. <i>Structure</i> , 2004 , 12, 1891-900	5.2	58
125	Uncoupling Raf1 from MEK1/2 impairs only a subset of cellular responses to Raf activation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 37303-6	5.4	58
124	Regulation of stress-responsive mitogen-activated protein (MAP) kinase pathways by TAO2. <i>Journal of Biological Chemistry</i> , 2001 , 276, 16070-5	5.4	57
123	MAP kinases ERK1 and ERK2: pleiotropic enzymes in a ubiquitous signaling network. <i>Advances in Cancer Research</i> , 1994 , 63, 93-116	5.9	56
122	Extracellular signal-regulated kinases in T cells: characterization of human ERK1 and ERK2 cDNAs. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 182, 1416-22	3.4	56
121	Serum and glucocorticoid-induced kinase (SGK) 1 and the epithelial sodium channel are regulated by multiple with no lysine (WNK) family members. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25161-7	5.4	55
120	The MEK1 proline-rich insert is required for efficient activation of the mitogen-activated protein kinases ERK1 and ERK2 in mammalian cells. <i>Journal of Biological Chemistry</i> , 1998 , 273, 19909-13	5.4	55
119	NeuroD1 regulates survival and migration of neuroendocrine lung carcinomas via signaling molecules TrkB and NCAM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6524-9	11.5	54
118	Identification of an activator of the microtubule-associated protein 2 kinases ERK1 and ERK2 in PC12 cells stimulated with nerve growth factor or bradykinin. <i>Journal of Neurochemistry</i> , 1992 , 59, 147-56	6	54
117	Crystal structure of domain-swapped STE20 OSR1 kinase domain. <i>Protein Science</i> , 2009 , 18, 304-13	6.3	53
116	Catalytic reaction pathway for the mitogen-activated protein kinase ERK2. <i>Biochemistry</i> , 2000 , 39, 6258-66	6.6	52
115	Reciprocal signaling between heterotrimeric G proteins and the p21-stimulated protein kinase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 31641-7	5.4	51
114	Menin determines K-RAS proliferative outputs in endocrine cells. <i>Journal of Clinical Investigation</i> , 2014 , 124, 4093-101	15.9	51
113	Biological cross-talk between WNK1 and the transforming growth factor beta-Smad signaling pathway. <i>Journal of Biological Chemistry</i> , 2007 , 282, 17985-17996	5.4	50

112	Lipopolysaccharide-induced tumor necrosis factor-alpha promoter activity is inhibitor of nuclear factor-kappaB kinase-dependent. <i>Journal of Biological Chemistry</i> , 1999 , 274, 11667-71	5.4	50
111	Phosphorylation of MAP kinases by MAP/ERK involves multiple regions of MAP kinases. <i>Journal of Biological Chemistry</i> , 1999 , 274, 16988-94	5.4	49
110	WNK1: analysis of protein kinase structure, downstream targets, and potential roles in hypertension. <i>Cell Research</i> , 2005 , 15, 6-10	24.7	48
109	The MAP kinase ERK5 binds to and phosphorylates p90 RSK. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 449, 8-16	4.1	47
108	G protein-coupled receptors and the regulation of autophagy. <i>Trends in Endocrinology and Metabolism</i> , 2014 , 25, 274-82	8.8	46
107	Mutations in ERK2 binding sites affect nuclear entry. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28759-28767	7.6	46
106	Mxi2 promotes stimulus-independent ERK nuclear translocation. <i>EMBO Journal</i> , 2007 , 26, 635-46	13	44
105	Signal control through Raf: in sickness and in health. <i>Cell Research</i> , 2012 , 22, 14-22	24.7	43
104	The nuclear localization of ERK2 occurs by mechanisms both independent of and dependent on energy. <i>Journal of Biological Chemistry</i> , 2006 , 281, 15645-52	5.4	41
103	Binding of JNK/SAPK to MEKK1 is regulated by phosphorylation. <i>Journal of Biological Chemistry</i> , 2002 , 277, 45785-92	5.4	41
102	The mitogen-activated protein kinase p38-2 is necessary for the inhibition of N-type calcium current by bradykinin. <i>Journal of Neuroscience</i> , 1998 , 18, 112-8	6.6	41
101	WNKs: protein kinases with a unique kinase domain. <i>Experimental and Molecular Medicine</i> , 2007 , 39, 565-73	7.8	40
100	Role of with-no-lysine [K] kinases in the pathogenesis of Gordon's syndrome. <i>Pediatric Nephrology</i> , 2006 , 21, 1231-6	3.2	38
99	p115 Rho GTPase activating protein interacts with MEKK1. <i>Journal of Cellular Physiology</i> , 2002 , 192, 200-8	7.8	38
98	Amino Acids Regulate mTORC1 by an Obligate Two-step Mechanism. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22414-22426	5.4	38
97	Actions of the protein kinase WNK1 on endothelial cells are differentially mediated by its substrate kinases OSR1 and SPAK. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15999-6004	11.5	37
96	Differential regulation of mitogen-activated protein/ERK kinase (MEK)1 and MEK2 and activation by a Ras-independent mechanism. <i>Molecular Endocrinology</i> , 1997 , 11, 1618-25	11.5	37
95	Characterization of a protein kinase that phosphorylates serine 189 of the mitogen-activated protein kinase homolog ERK3. <i>Journal of Biological Chemistry</i> , 1996 , 271, 12057-62	5.4	36

94	TAO (thousand-and-one amino acid) protein kinases mediate signaling from carbachol to p38 mitogen-activated protein kinase and ternary complex factors. <i>Journal of Biological Chemistry</i> , 2003 , 278, 22278-83	5.4	36
93	Chromatin-tethered MAPKs. <i>Current Opinion in Cell Biology</i> , 2013 , 25, 272-7	9	35
92	WNK1 is required for mitosis and abscission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1385-90	11.5	35
91	Calcineurin increases glucose activation of ERK1/2 by reversing negative feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22314-9	11.5	34
90	WNK pathways in cancer signaling networks. <i>Cell Communication and Signaling</i> , 2018 , 16, 72	7.5	32
89	A small molecule differentiation inducer increases insulin production by pancreatic β cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20713-8	11.5	31
88	Inhibition of glucose-stimulated activation of extracellular signal-regulated protein kinases 1 and 2 by epinephrine in pancreatic beta-cells. <i>Diabetes</i> , 2006 , 55, 1066-73	0.9	31
87	Off-target effects of MEK inhibitors. <i>Biochemistry</i> , 2013 , 52, 5164-6	3.2	30
86	Differential regulation of CHOP-10/GADD153 gene expression by MAPK signaling in pancreatic beta-cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11518-25	11.5	29
85	Characterization of mitogen-activated protein kinase (MAPK) dimers. <i>Biochemistry</i> , 2006 , 45, 13175-82	3.2	29
84	Cyclic AMP selectively uncouples mitogen-activated protein kinase cascades from activating signals. <i>Molecular and Cellular Biology</i> , 2006 , 26, 3039-47	4.8	28
83	Crystallization and preliminary X-ray studies of extracellular signal-regulated kinase-2/MAP kinase with an incorporated His-tag. <i>Journal of Molecular Biology</i> , 1993 , 233, 550-2	6.5	28
82	Rasip1-Mediated Rho GTPase Signaling Regulates Blood Vessel Tubulogenesis via Nonmuscle Myosin II. <i>Circulation Research</i> , 2016 , 119, 810-26	15.7	28
81	Amino acid regulation of autophagy through the GPCR TAS1R1-TAS1R3. <i>Autophagy</i> , 2013 , 9, 418-9	10.2	26
80	Multiple chromatin-bound protein kinases assemble factors that regulate insulin gene transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 22181-6	11.5	26
79	Radial spoke protein 3 is a mammalian protein kinase A-anchoring protein that binds ERK1/2. <i>Journal of Biological Chemistry</i> , 2009 , 284, 29437-45	5.4	26
78	Sumoylation regulates the transcriptional activity of MafA in pancreatic beta cells. <i>Journal of Biological Chemistry</i> , 2009 , 284, 3117-3124	5.4	25
77	WNK1 is a novel regulator of Munc18c-syntaxin 4 complex formation in soluble NSF attachment protein receptor (SNARE)-mediated vesicle exocytosis. <i>Journal of Biological Chemistry</i> , 2007 , 282, 32613-22	5.4	25

76	Regulation of a third conserved phosphorylation site in SGK1. <i>Journal of Biological Chemistry</i> , 2009 , 284, 3453-60	5.4	24
75	Multistep regulation of autophagy by WNK1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14342-14347	11.5	24
74	The structure of the MAP2K MEK6 reveals an autoinhibitory dimer. <i>Structure</i> , 2009 , 17, 96-104	5.2	23
73	Differential abundance of CK1 β provides selectivity for pharmacological CK1 β activators to target WNT-dependent tumors. <i>Science Signaling</i> , 2017 , 10,	8.8	22
72	Structural analysis of the MAP kinase ERK2 and studies of MAP kinase regulatory pathways. <i>Advances in Pharmacology</i> , 1996 , 36, 49-65	5.7	22
71	Insulin promoter-driven Gaussia luciferase-based insulin secretion biosensor assay for discovery of Ecell glucose-sensing pathways. <i>ACS Sensors</i> , 2016 , 1, 1208-1212	9.2	21
70	MAP kinases and their roles in pancreatic beta-cells. <i>Cell Biochemistry and Biophysics</i> , 2004 , 40, 191-200	3.2	21
69	Bacterial expression of activated mitogen-activated protein kinases. <i>Methods in Enzymology</i> , 2001 , 332, 387-400	1.7	21
68	Regulation of OSR1 and the sodium, potassium, two chloride cotransporter by convergent signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18826-31	11.5	19
67	WNK1 is an unexpected autophagy inhibitor. <i>Autophagy</i> , 2017 , 13, 969-970	10.2	18
66	Isoxazole Alters Metabolites and Gene Expression, Decreasing Proliferation and Promoting a Neuroendocrine Phenotype in ECells. <i>ACS Chemical Biology</i> , 2016 , 11, 1128-36	4.9	18
65	TGF-beta regulation by Emilin1: new links in the etiology of hypertension. <i>Cell</i> , 2006 , 124, 893-5	56.2	18
64	Regulation of CCAAT/enhancer-binding protein homologous protein (CHOP) expression by interleukin-1 beta in pancreatic beta cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 19710-9	5.4	17
63	The transcriptional ETS2 repressor factor associates with active and inactive Erks through distinct FXF motifs. <i>Journal of Biological Chemistry</i> , 2006 , 281, 25601-11	5.4	17
62	Structure of MAPKs. <i>Methods in Molecular Biology</i> , 2004 , 250, 127-44	1.4	17
61	Cell condition-dependent regulation of ERK5 by cAMP. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48094-84	5.4	17
60	Interactions with WNK (with no lysine) family members regulate oxidative stress response 1 and ion co-transporter activity. <i>Journal of Biological Chemistry</i> , 2012 , 287, 37868-79	5.4	15
59	Chemoattractant concentration-dependent tuning of ERK signaling dynamics in migrating neutrophils. <i>Science Signaling</i> , 2016 , 9, ra122	8.8	15

58	Differential Regulation of ERK1/2 and mTORC1 Through T1R1/T1R3 in MIN6 Cells. <i>Molecular Endocrinology</i> , 2015 , 29, 1114-22		13
57	Protein kinase WNK3 regulates the neuronal splicing factor Fox-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16841-6	11.5	13
56	Domain-Swapping Switch Point in Ste20 Protein Kinase SPAK. <i>Biochemistry</i> , 2015 , 54, 5063-71	3.2	12
55	Different domains of the mitogen-activated protein kinases ERK3 and ERK2 direct subcellular localization and upstream specificity in vivo. <i>Journal of Biological Chemistry</i> , 2002 , 277, 5094-100	5.4	12
54	MAP Kinases and Their Roles in Pancreatic β Cells. <i>Cell Biochemistry and Biophysics</i> , 2004 , 40, 191-200	3.2	12
53	Functional divergence caused by mutations in an energetic hotspot in ERK2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15514-15523	11.5	11
52	NeuroD1 mediates nicotine-induced migration and invasion via regulation of the nicotinic acetylcholine receptor subunits in a subset of neural and neuroendocrine carcinomas. <i>Molecular Biology of the Cell</i> , 2014 , 25, 1782-92	3.5	11
51	WNK kinases and blood pressure control. <i>Current Hypertension Reports</i> , 2009 , 11, 421-6	4.7	11
50	A similar ribosomal protein S6 kinase activity is found in insulin-treated 3T3-L1 cells and chick embryo fibroblasts transformed by Rous sarcoma virus. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 137, 702-8	3.4	11
49	The Epithelial Sodium Channel (β NaC) Is a Downstream Therapeutic Target of ASCL1 in Pulmonary Neuroendocrine Tumors. <i>Translational Oncology</i> , 2018 , 11, 292-299	4.9	10
48	Phosphorylation or Mutation of the ERK2 Activation Loop Alters Oligonucleotide Binding. <i>Biochemistry</i> , 2016 , 55, 1909-17	3.2	10
47	Subtype-specific secretomic characterization of pulmonary neuroendocrine tumor cells. <i>Nature Communications</i> , 2019 , 10, 3201	17.4	10
46	Context-dependent regulation of NeuroD activity and protein accumulation. <i>Molecular and Cellular Neurosciences</i> , 2005 , 28, 727-36	4.8	10
45	Irreversible inhibition of sodium transport by the toad urinary bladder following photolysis of amiloride analogs. <i>Experientia</i> , 1981 , 37, 68-9		10
44	Hypertension: the missing WNKs. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, F16-27	4.3	10
43	Expression and characterization of MAP kinases in bacteria. <i>Methods</i> , 2006 , 40, 209-12	4.6	9
42	kin-18, a C. elegans protein kinase involved in feeding. <i>Gene</i> , 2001 , 279, 137-47	3.8	9
41	Ras transformation uncouples the kinesin-coordinated cellular nutrient response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10568-73	11.5	8

40	The insulin receptor and tyrosine protein kinase activity. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 1984 , 738, 1-8	11.2	8
39	Extracellular Signal-Regulated Protein Kinases (ERKS) 1, 2, and 3 1994 , 61-66		8
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