Joseph Avruch

List of Publications by Year
in descending order

116	33,546	9786	23533
papers	citations	73 h-index	111 g-index

148	148	148	28356
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mammalian Mitogen-Activated Protein Kinase Signal Transduction Pathways Activated by Stress and Inflammation. Physiological Reviews, 2001, 81, 807-869.	28.8	3,019
2	The stress-activated protein kinase subfamily of c-Jun kinases. Nature, 1994, 369, 156-160.	27.8	2,631
3	Raptor, a Binding Partner of Target of Rapamycin (TOR), Mediates TOR Action. Cell, 2002, 110, 177-189.	28.9	1,612
4	Phosphorylation of c-jun mediated by MAP kinases. Nature, 1991, 353, 670-674.	27.8	1,454
5	Raf-1 activates MAP kinase-kinase. Nature, 1992, 358, 417-421.	27.8	1,299
6	Amino Acid Sufficiency and mTOR Regulate p70 S6 Kinase and eIF-4E BP1 through a Common Effector Mechanism. Journal of Biological Chemistry, 1998, 273, 14484-14494.	3.4	1,200
7	Mammalian MAPK Signal Transduction Pathways Activated by Stress and Inflammation: A 10-Year Update. Physiological Reviews, 2012, 92, 689-737.	28.8	1,122
8	Role of SAPK/ERK kinase-1 in the stress-activated pathway regulating transcription factor c-Jun. Nature, 1994, 372, 794-798.	27.8	1,016
9	Sounding the Alarm: Protein Kinase Cascades Activated by Stress and Inflammation. Journal of Biological Chemistry, 1996, 271, 24313-24316.	3.4	1,013
10	Yap1 Acts Downstream of Î±-Catenin to Control Epidermal Proliferation. Cell, 2011, 144, 782-795.	28.9	923
11	Normal and oncogenic p21ras proteins bind to the amino-terminal regulatory domain of c-Raf-1. Nature, 1993, 364, 308-313.	27.8	879
12	Rheb Binds and Regulates the mTOR Kinase. Current Biology, 2005, 15, 702-713.	3.9	842
13	Mst1 and Mst2 Maintain Hepatocyte Quiescence andÂSuppress Hepatocellular Carcinoma Development through Inactivation of the Yap1 Oncogene. Cancer Cell, 2009, 16, 425-438.	16.8	809
14	Protein kinase cascades activated by stress and inflammatory cytokines. BioEssays, 1996, 18, 567-577.	2.5	705
15	The Mammalian Target of Rapamycin (mTOR) Partner, Raptor, Binds the mTOR Substrates p70 S6 Kinase and 4E-BP1 through Their TOR Signaling (TOS) Motif. Journal of Biological Chemistry, 2003, 278, 15461-15464.	3.4	567
16	Raf meets Ras: completing the framework of a signal transduction pathway. Trends in Biochemical Sciences, 1994, 19, 279-283.	7.5	565
17	3-Phosphoinositide-dependent protein kinase 1 (PDK1) phosphorylates and activates the p70 S6 kinase in vivo and in vitro. Current Biology, 1998, 8, 69-81.	3.9	551
18	14-3-3 Proteins: Active Cofactors in Cellular Regulation by Serine/Threonine Phosphorylation. Journal of Biological Chemistry, 2002, 277, 3061-3064.	3.4	451

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19	A dimeric 14-3-3 protein is an essential cofactor for Raf kinase activity. Nature, 1998, 394, 88-92.	27.8	442
20	Regulation of eIF-4E BP1 Phosphorylation by mTOR. Journal of Biological Chemistry, 1997, 272, 26457-26463.	3.4	435
21	Serine phosphorylation and maximal activation of STAT3 during CNTF signaling is mediated by the rapamycin target mTOR. Current Biology, 2000, 10, 47-50.	3.9	422
22	Mst1 and Mst2 protein kinases restrain intestinal stem cell proliferation and colonic tumorigenesis by inhibition of Yes-associated protein (Yap) overabundance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1312-20.	7.1	392
23	MOBKL1A/MOBKL1B Phosphorylation by MST1 and MST2 Inhibits Cell Proliferation. Current Biology, 2008, 18, 311-321.	3.9	352
24	Regulation of the p70 S6 Kinase by Phosphorylation in Vivo. Journal of Biological Chemistry, 1998, 273, 16621-16629.	3.4	349
25	Identification of a Novel Ras-Regulated Proapoptotic Pathway. Current Biology, 2002, 12, 253-265.	3.9	343
26	Identification of Regulatory Phosphorylation Sites in Mitogen-activated Protein Kinase (MAPK)-activated Protein Kinase-1a/p90 That Are Inducible by MAPK. Journal of Biological Chemistry, 1998, 273, 1496-1505.	3.4	333
27	Amino acid regulation of TOR complex 1. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E592-E602.	3.5	332
28	Insulin signal transduction through protein kinase cascades. , 1998, 182, 31-48.		317
29	Regulation of the MST1 kinase by autophosphorylation, by the growth inhibitory proteins, RASSF1 and NORE1, and by Ras. Biochemical Journal, 2004, 381, 453-462.	3.7	310
30	Rheb Binding to Mammalian Target of Rapamycin (mTOR) Is Regulated by Amino Acid Sufficiency. Journal of Biological Chemistry, 2005, 280, 23433-23436.	3.4	304
31	Immunopurified Mammalian Target of Rapamycin Phosphorylates and Activates p70 S6 Kinase Î± in Vitro. Journal of Biological Chemistry, 1999, 274, 34493-34498.	3.4	296
32	Insulin and amino-acid regulation of mTOR signaling and kinase activity through the Rheb GTPase. Oncogene, 2006, 25, 6361-6372.	5.9	280
33	The Proline-rich Akt Substrate of 40 kDa (PRAS40) Is a Physiological Substrate of Mammalian Target of Rapamycin Complex 1*. Journal of Biological Chemistry, 2007, 282, 20329-20339.	3.4	275
34	Amino Acid-Induced Translation of TOP mRNAs Is Fully Dependent on Phosphatidylinositol 3-Kinase-Mediated Signaling, Is Partially Inhibited by Rapamycin, and Is Independent of S6K1 and rpS6 Phosphorylation. Molecular and Cellular Biology, 2001, 21, 8671-8683.	2.3	274
35	Dissociation of raptor from mTOR is a mechanism of rapamycinâ€induced inhibition of mTOR function. Genes To Cells, 2004, 9, 359-366.	1.2	274
36	TOR Deficiency in C. elegans Causes Developmental Arrest and Intestinal Atrophy by Inhibition of mRNA Translation. Current Biology, 2002, 12, 1448-1461.	3.9	252

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37	Oligomerization activates c-Raf-1 through a Ras-dependent mechanism. Nature, 1996, 383, 181-185.	27.8	241
38	MAP kinase pathways: The first twenty years. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 1150-1160.	4.1	236
39	Activation of the SAPK pathway by the human STE20 homologue germinal centre kinase. Nature, 1995, 377, 750-754.	27.8	218
40	Kinases Mst1 and Mst2 positively regulate phagocytic induction of reactive oxygen species and bactericidal activity. Nature Immunology, 2015, 16, 1142-1152.	14.5	218
41	YAP Inhibition Restores Hepatocyte Differentiation in Advanced HCC, Leading to Tumor Regression. Cell Reports, 2015, 10, 1692-1707.	6.4	213
42	The Mixed Lineage Kinase SPRK Phosphorylates and Activates the Stress-activated Protein Kinase Activator, SEK-1. Journal of Biological Chemistry, 1996, 271, 19025-19028.	3.4	209
43	Protein kinases of the Hippo pathway: Regulation and substrates. Seminars in Cell and Developmental Biology, 2012, 23, 770-784.	5.0	207
44	The putative tumor suppressor RASSF1A homodimerizes and heterodimerizes with the Ras-GTP binding protein Nore1. Oncogene, 2002, 21, 1381-1390.	5.9	205
45	Intracellular signalling: PDK1 â€“ a kinase at the hub of things. Current Biology, 1999, 9, R93-R96.	3.9	203
46	Regulation of Translational Effectors by Amino Acid and Mammalian Target of Rapamycin Signaling Pathways. Journal of Biological Chemistry, 1999, 274, 1058-1065.	3.4	188
47	MST/MLK2, a Member of the Mixed Lineage Kinase Family, Directly Phosphorylates and Activates SEK1, an Activator of c-Jun N-terminal Kinase/Stress-activated Protein Kinase. Journal of Biological Chemistry, 1997, 272, 15167-15173.	3.4	169
48	Identification of Nore1 as a Potential Ras Effector. Journal of Biological Chemistry, 1998, 273, 5439-5442.	3.4	166
49	A Mitotic Cascade of NIMA Family Kinases. Journal of Biological Chemistry, 2003, 278, 34897-34909.	3.4	154
50	mTOR phosphorylates IMP2 to promote IGF2 mRNA translation by internal ribosomal entry. Genes and Development, 2011, 25, 1159-1172.	5.9	148
51	IGF2BP2/IMP2-Deficient Mice Resist Obesity through Enhanced Translation of Ucp1 mRNA and Other mRNAs Encoding Mitochondrial Proteins. Cell Metabolism, 2015, 21, 609-621.	16.2	148
52	Actin-biding Protein-280 Binds the Stress-activated Protein Kinase (SAPK) Activator SEK-1 and Is Required for Tumor Necrosis Factor-Î± Activation of SAPK in Melanoma Cells. Journal of Biological Chemistry, 1997, 272, 2620-2628.	3.4	147
53	The Mst1 and Mst2 kinases control activation of rho family GTPases and thymic egress of mature thymocytes. Journal of Experimental Medicine, 2012, 209, 741-759.	8.5	146
54	Nek9 is a Plk1-activated kinase that controls early centrosome separation through Nek6/7 and Eg5. EMBO Journal, 2011, 30, 2634-2647.	7.8	139

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55	The Nore1B/Mst1 complex restrains antigen receptor-induced proliferation of naÃ¯ve T cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20321-20326.	7.1	135
56	Calyculin A-induced Vimentin Phosphorylation Sequesters 14-3-3 and Displaces Other 14-3-3 Partners in Vivo. Journal of Biological Chemistry, 2000, 275, 29772-29778.	3.4	134
57	Nercc1, a mammalian NIMA-family kinase, binds the Ran GTPase and regulates mitotic progression. Genes and Development, 2002, 16, 1640-1658.	5.9	126
58	Glutamatergic Regulation of the p70S6 Kinase in Primary Mouse Neurons*. Journal of Biological Chemistry, 2005, 280, 38121-38124.	3.4	126
59	The NIMA-family kinase Nek6 phosphorylates the kinesin Eg5 at a novel site necessary for mitotic spindle formation. Journal of Cell Science, 2008, 121, 3912-3921.	2.0	125
60	Purification and characterisation of the insulin-stimulated protein kinase from rabbit skeletal muscle; close similarity to S6 kinase II. FEBS Journal, 1991, 199, 723-728.	0.2	120
61	The TSC-mTOR Pathway Mediates Translational Activation of TOP mRNAs by Insulin Largely in a Raptor- or Rictor-Independent Manner. Molecular and Cellular Biology, 2009, 29, 640-649.	2.3	111
62	Four gel systems for electrophoretic fractionation of membrane proteins using ionic detergents. Journal of Supramolecular Structure, 1972, 1, 66-75.	2.3	107
63	Rassf Family of Tumor Suppressor Polypeptides. Journal of Biological Chemistry, 2009, 284, 11001-11005.	3.4	106
64	Mst1/2 signalling to Yap: gatekeeper for liver size and tumour development. British Journal of Cancer, 2011, 104, 24-32.	6.4	106
65	YAP oncogene overexpression supercharges colon cancer proliferation. Cell Cycle, 2012, 11, 1090-1096.	2.6	106
66	RASSF3 and NORE1: identification and cloning of two human homologues of the putative tumor suppressor gene RASSF1. Oncogene, 2002, 21, 2713-2720.	5.9	104
67	Identification of the 14.3.3 Î¶ Domains Important for Self-association and Raf Binding. Journal of Biological Chemistry, 1995, 270, 23681-23687.	3.4	91
68	P_{2Y} purinoceptor subtypes recruit different Mek activators in astrocytes. British Journal of Pharmacology, 2000, 129, 927-936.	5.4	91
69	Nore1 inhibits tumor cell growth independent of Ras or the MST1/2 kinases. Oncogene, 2004, 23, 3426-3433.	5.9	85
70	Recent advances in the regulation of the TOR pathway by insulin and nutrients. Current Opinion in Clinical Nutrition and Metabolic Care, 2005, 8, 67-72.	2.5	84
71	The Scaffold Protein CNK1 Interacts with the Tumor Suppressor RASSF1A and Augments RASSF1A-induced Cell Death. Journal of Biological Chemistry, 2004, 279, 29247-29254.	3.4	82
72	Pancreatic islet chromatin accessibility and conformation reveals distal enhancer networks of type 2 diabetes risk. Nature Communications, 2019, 10, 2078.	12.8	82

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73	Nore1 and RASSF1 Regulation of Cell Proliferation and of the MST1/2 Kinases. Methods in Enzymology, 2006, 407, 290-310.	1.0	81
74	mTOR complex 2 phosphorylates IMP1 cotranslationally to promote IGF2 production and the proliferation of mouse embryonic fibroblasts. Genes and Development, 2013, 27, 301-312.	5.9	80
75	Death-associated Protein 4 Binds MST1 and Augments MST1-induced Apoptosis. Journal of Biological Chemistry, 2002, 277, 47991-48001.	3.4	79
76	IGF2 mRNA binding protein-2 is a tumor promoter that drives cancer proliferation through its client mRNAs IGF2 and HMGA1. ELife, 2017, 6, .	6.0	77
77	MST1/MST2 Protein Kinases: Regulation and Physiologic Roles. Biochemistry, 2016, 55, 5507-5519.	2.5	73
78	Identification of the NIMA family kinases NEK6/7 as regulators of the p70 ribosomal S6 kinase. Current Biology, 2001, 11, 1155-1167.	3.9	72
79	A Rictor-Myo1c Complex Participates in Dynamic Cortical Actin Events in 3T3-L1 Adipocytes. Molecular and Cellular Biology, 2008, 28, 4215-4226.	2.3	71
80	Tumor Suppressor Ras Association Domain Family 5 (RASSF5/NORE1) Mediates Death Receptor Ligand-induced Apoptosis. Journal of Biological Chemistry, 2010, 285, 35029-35038.	3.4	70
81	Ionizing Radiation Stimulates a Grb2-mediated Association of the Stress-activated Protein Kinase with Phosphatidylinositol 3-Kinase. Journal of Biological Chemistry, 1995, 270, 18871-18874.	3.4	65
82	An insulin-stimulated (ribosomal S6) protein kinase from soluble extracts of H4 hepatoma cells. Archives of Biochemistry and Biophysics, 1986, 245, 196-203.	3.0	63
83	The Stress-activated Protein Kinases.. Annals of the New York Academy of Sciences, 1995, 766, 303-319.	3.8	63
84	Phosphorylation and dephosphorylation of spectrin. Journal of Supramolecular Structure, 1978, 9, 97-112.	2.3	60
85	Kinetic properties of the insulin receptor tyrosine protein kinase: Activation through an insulin-stimulated tyrosine-specific, intramolecular autophosphorylation. Archives of Biochemistry and Biophysics, 1986, 244, 102-113.	3.0	60
86	Activation of mTORC1 in two steps: Rheb-GTP activation of catalytic function and increased binding of substrates to raptor1. Biochemical Society Transactions, 2009, 37, 223-226.	3.4	59
87	Amino Acids Activate Mammalian Target of Rapamycin (mTOR) Complex 1 without Changing Rag GTPase Guanyl Nucleotide Charging. Journal of Biological Chemistry, 2014, 289, 2658-2674.	3.4	53
88	Insulin regulation of glycogen synthase in the isolated rat hepatocyte. Biochemical and Biophysical Research Communications, 1976, 69, 997-1003.	2.1	49
89	A MicroRNA Linking Human Positive Selection and Metabolic Disorders. Cell, 2020, 183, 684-701.e14.	28.9	46
90	Phosphoprotein phosphatase of the human erythrocyte. Biochemical and Biophysical Research Communications, 1976, 72, 701-708.	2.1	45

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91	The Rheb Switch 2 Segment Is Critical for Signaling to Target of Rapamycin Complex 1. Journal of Biological Chemistry, 2007, 282, 18542-18551.	3.4	40
92	Regulation of plasma membrane protein phosphorylation in two mammalian cell types. Journal of Cellular Physiology, 1976, 89, 815-826.	4.1	39
93	A rapid and convenient method for preparing salt-free [Î³-32P]ATP. Analytical Biochemistry, 1981, 116, 372-373.	2.4	37
94	REGULATION OF NUCLEAR TRANSCRIPTION FACTORS BY STRESS SIGNALS. Clinical and Experimental Pharmacology and Physiology, 1995, 22, 281-283.	1.9	34
95	Liver-specific deletion of IGF2 mRNA binding protein-2/IMP2 reduces hepatic fatty acid oxidation and increases hepatic triglyceride accumulation. Journal of Biological Chemistry, 2019, 294, 11944-11951.	3.4	34
96	The Mechanism of Insulin-stimulated 4E-BP Protein Binding to Mammalian Target of Rapamycin (mTOR) Complex 1 and Its Contribution to mTOR Complex 1 Signaling. Journal of Biological Chemistry, 2011, 286, 38043-38053.	3.4	33
97	Extracellular ATP stimulates an inhibitory pathway towards growth factor-induced cRaf-1 and MEKK activation in astrocyte cultures. Journal of Neurochemistry, 2001, 77, 1001-1009.	3.9	31
98	Hippo pathway in intestinal homeostasis and tumorigenesis. Protein and Cell, 2012, 3, 305-310.	11.0	30
99	RNA m6A reader IMP2/IGF2BP2 promotes pancreatic Î²-cell proliferation and insulin secretion by enhancing PDX1 expression. Molecular Metabolism, 2021, 48, 101209.	6.5	28
100	G proteinâ€coupled receptors engage the mammalian Hippo pathway through Fâ€actin. BioEssays, 2013, 35, 430-435.	2.5	23
101	Insulin binds to and promotes the phosphorylation of a M r 210 000 component of its receptor in detergent extracts of rat liver microsomes. FEBS Letters, 1983, 158, 243-246.	2.8	19
102	Cryo-EM insight into the structure of MTOR complex 1 and its interactions with Rheb and substrates. F1000Research, 2019, 8, 14.	1.6	17
103	The Mst1 Kinase Is Required for Follicular B Cell Homing and B-1 B Cell Development. Frontiers in Immunology, 2018, 9, 2393.	4.8	13
104	IMP2 Increases Mouse Skeletal Muscle Mass and Voluntary Activity by Enhancing Autocrine Insulin-Like Growth Factor 2 Production and Optimizing Muscle Metabolism. Molecular and Cellular Biology, 2019, 39, .	2.3	12
105	Studies on the mechanism of insulin-stimulated protein phosphorylation in adipocytes. Biochemical and Biophysical Research Communications, 1980, 94, 1331-1336.	2.1	11
106	A Genome-Wide siRNA Screen in Mammalian Cells for Regulators of S6 Phosphorylation. PLoS ONE, 2015, 10, e0116096.	2.5	10
107	Growth factor-activated kinases phosphorylate IRE-ABP. Biochemical Society Transactions, 1992, 20, 691-693.	3.4	9
108	Role of mitogen-activated protein kinase cascades in P2Y receptor-mediated trophic activation of astroglial cells. Drug Development Research, 2001, 53, 158-165.	2.9	8

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109	Evolution ofÂTOR and Translation Control. , 2016, , 327-411.		8
110	[33] Ras-Raf complexes in Vitro. Methods in Enzymology, 1995, 255, 323-331.	1.0	7
111	A signal for Î²-cell failure. Nature, 1998, 391, 846-847.	27.8	7
112	Characterization of two Mst1â€deficient mouse models. Developmental Dynamics, 2008, 237, 3424-3434.	1.8	7
113	A Genome-wide RNAi Screen for Polypeptides that Alter rpS6 Phosphorylation. Methods in Molecular Biology, 2012, 821, 187-214.	0.9	4
114	The putative tumor suppressor RASSF1A homodimerizes and heterodimerizes with the Ras-GTP binding protein Nore1. , 0, .		3
115	Regulation of TOR Complex 1 by Amino Acids Through Small GTPases. The Enzymes, 2010, 27, 57-73.	1.7	0
116	MST1/2 and Other Upstream Signaling that Affect Hippo Pathway Function. , 2013, , 27-49.		0