

Philippe P Roux

List of Publications by Year in descending order

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109
papers

16,434
citations

44444

50
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95
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all docs

114
docs citations

114
times ranked

28305
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation and Function of the MAPKs and Their Substrates, the MAPK-Activated Protein Kinases. <i>Microbiology and Molecular Biology Reviews</i> , 2011, 75, 50-83.	2.9	2,328
2	ERK and p38 MAPK-Activated Protein Kinases: a Family of Protein Kinases with Diverse Biological Functions. <i>Microbiology and Molecular Biology Reviews</i> , 2004, 68, 320-344.	2.9	2,059
3	Tuberous Sclerosis Complex Gene Products, Tuberin and Hamartin, Control mTOR Signaling by Acting as a GTPase-Activating Protein Complex toward Rheb. <i>Current Biology</i> , 2003, 13, 1259-1268.	1.8	1,047
4	Rapamycin differentially inhibits S6Ks and 4E-BP1 to mediate cell-type-specific repression of mRNA translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17414-17419.	3.3	716
5	Tumor-promoting phorbol esters and activated Ras inactivate the tuberous sclerosis tumor suppressor complex via p90 ribosomal S6 kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13489-13494.	3.3	661
6	Neurotrophin signaling through the p75 neurotrophin receptor. <i>Progress in Neurobiology</i> , 2002, 67, 203-233.	2.8	639
7	RAS/ERK Signaling Promotes Site-specific Ribosomal Protein S6 Phosphorylation via RSK and Stimulates Cap-dependent Translation. <i>Journal of Biological Chemistry</i> , 2007, 282, 14056-14064.	1.6	627
8	The mTOR/PI3K and MAPK pathways converge on eIF4B to control its phosphorylation and activity. <i>EMBO Journal</i> , 2006, 25, 2781-2791.	3.5	459
9	mTORC1-Activated S6K1 Phosphorylates Rictor on Threonine 1135 and Regulates mTORC2 Signaling. <i>Molecular and Cellular Biology</i> , 2010, 30, 908-921.	1.1	365
10	Regulation and function of the RSK family of protein kinases. <i>Biochemical Journal</i> , 2012, 441, 553-569.	1.7	326
11	Actin cortex architecture regulates cell surface tension. <i>Nature Cell Biology</i> , 2017, 19, 689-697.	4.6	325
12	Oncogenic MAPK Signaling Stimulates mTORC1 Activity by Promoting RSK-Mediated Raptor Phosphorylation. <i>Current Biology</i> , 2008, 18, 1269-1277.	1.8	291
13	mTORC2 can associate with ribosomes to promote cotranslational phosphorylation and stability of nascent Akt polypeptide. <i>EMBO Journal</i> , 2010, 29, 3939-3951.	3.5	290
14	NRAGE, A Novel MAGE Protein, Interacts with the p75 Neurotrophin Receptor and Facilitates Nerve Growth Factor-Dependent Apoptosis. <i>Neuron</i> , 2000, 27, 279-288.	3.8	263
15	Signaling Pathways Involved in the Regulation of mRNA Translation. <i>Molecular and Cellular Biology</i> , 2018, 38, .	1.1	236
16	Proteomic analysis of cap-dependent translation identifies LARP1 as a key regulator of 5' cap-dependent mRNA translation. <i>Genes and Development</i> , 2014, 28, 357-371.	2.7	229
17	Cellular Control of Cortical Actin Nucleation. <i>Current Biology</i> , 2014, 24, 1628-1635.	1.8	219
18	Transmembrane Receptor DCC Associates with Protein Synthesis Machinery and Regulates Translation. <i>Cell</i> , 2010, 141, 632-644.	13.5	211

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19	ERK1/2 Phosphorylate Raptor to Promote Ras-dependent Activation of mTOR Complex 1 (mTORC1). <i>Journal of Biological Chemistry</i> , 2011, 286, 567-577.	1.6	209
20	p75 Neurotrophin Receptor Expression Is Induced in Apoptotic Neurons After Seizure. <i>Journal of Neuroscience</i> , 1999, 19, 6887-6896.	1.7	203
21	Quantitative phosphorylation profiling of the ERK/p90 ribosomal S6 kinase-signaling cassette and its targets, the tuberous sclerosis tumor suppressors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 667-672.	3.3	201
22	A comprehensive map of the mTOR signaling network. <i>Molecular Systems Biology</i> , 2010, 6, 453.	3.2	201
23	The RSK factors of activating the Ras/MAPK signaling cascade. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 4258.	3.0	183
24	Phosphorylation of p90 Ribosomal S6 Kinase (RSK) Regulates Extracellular Signal-Regulated Kinase Docking and RSK Activity. <i>Molecular and Cellular Biology</i> , 2003, 23, 4796-4804.	1.1	173
25	Mubritinib Targets the Electron Transport Chain Complex I and Reveals the Landscape of OXPHOS Dependency in Acute Myeloid Leukemia. <i>Cancer Cell</i> , 2019, 36, 84-99.e8.	7.7	163
26	Regulation of mTOR Complex 1 (mTORC1) by Raptor Ser863 and Multisite Phosphorylation. <i>Journal of Biological Chemistry</i> , 2010, 285, 80-94.	1.6	158
27	EPCR expression marks UM171-expanded CD34+ cord blood stem cells. <i>Blood</i> , 2017, 129, 3344-3351.	0.6	158
28	The expanding role of mTOR in cancer cell growth and proliferation. <i>Mutagenesis</i> , 2015, 30, 169-176.	1.0	154
29	Regulation of mRNA Translation by Signaling Pathways. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a012252-a012252.	2.3	146
30	The p75 Neurotrophin Receptor Activates Akt (Protein Kinase B) through a Phosphatidylinositol 3-Kinase-dependent Pathway. <i>Journal of Biological Chemistry</i> , 2001, 276, 23097-23104.	1.6	130
31	The Tumor Suppressor DAP Kinase Is a Target of RSK-Mediated Survival Signaling. <i>Current Biology</i> , 2005, 15, 1762-1767.	1.8	130
32	Copper bioavailability is a KRAS-specific vulnerability in colorectal cancer. <i>Nature Communications</i> , 2020, 11, 3701.	5.8	128
33	The Receptor Tyrosine Kinase AXL Is Required at Multiple Steps of the Metastatic Cascade during HER2-Positive Breast Cancer Progression. <i>Cell Reports</i> , 2018, 23, 1476-1490.	2.9	127
34	Y-box binding protein-1 serine 102 is a downstream target of p90 ribosomal S6 kinase in basal-like breast cancer cells. <i>Breast Cancer Research</i> , 2008, 10, R99.	2.2	123
35	Protein Kinase A Activation Promotes Plasma Membrane Insertion of DCC from an Intracellular Pool: A Novel Mechanism Regulating Commissural Axon Extension. <i>Journal of Neuroscience</i> , 2004, 24, 3040-3050.	1.7	121
36	Regulation of global and specific mRNA translation by the mTOR signaling pathway. <i>Translation</i> , 2015, 3, e983402.	2.9	117

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37	The MHC I immunopeptidome conveys to the cell surface an integrative view of cellular regulation. <i>Molecular Systems Biology</i> , 2011, 7, 533.	3.2	113
38	A new inhibitor of the β 2-arrestin/AP2 endocytic complex reveals interplay between GPCR internalization and signalling. <i>Nature Communications</i> , 2017, 8, 15054.	5.8	111
39	Activation of Transcription Factors NF- κ B and NF-IL-6 by Human Immunodeficiency Virus Type 1 Protein R (Vpr) Induces Interleukin-8 Expression. <i>Journal of Virology</i> , 2000, 74, 4658-4665.	1.5	103
40	K252a and CEP1347 Are Neuroprotective Compounds That Inhibit Mixed-lineage Kinase-3 and Induce Activation of Akt and ERK. <i>Journal of Biological Chemistry</i> , 2002, 277, 49473-49480.	1.6	91
41	The Coming of Age of Phosphoproteomics—from Large Data Sets to Inference of Protein Functions. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3453-3464.	2.5	90
42	INCREASED APOPTOSIS, CHANGES IN INTRACELLULAR Ca ²⁺ , AND FUNCTIONAL ALTERATIONS IN LYMPHOCYTES AND MACROPHAGES AFTER IN VITRO EXPOSURE TO STATIC MAGNETIC FIELD. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 1998, 54, 63-76.	1.1	88
43	Glycogen synthase kinase-3 β positively regulates protein synthesis and cell proliferation through the regulation of translation initiation factor 4E-binding protein 1. <i>Oncogene</i> , 2014, 33, 1690-1699.	2.6	86
44	Cell cortex composition and homeostasis resolved by integrating proteomics and quantitative imaging. <i>Cytoskeleton</i> , 2013, 70, 741-754.	1.0	76
45	Defining the role of the RSK isoforms in cancer. <i>Seminars in Cancer Biology</i> , 2018, 48, 53-61.	4.3	71
46	Phosphoproteomic analysis identifies the tumor suppressor PDCD4 as a RSK substrate negatively regulated by 14-3-3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2918-27.	3.3	70
47	F-Actin Interactome Reveals Vimentin as a Key Regulator of Actin Organization and Cell Mechanics in Mitosis. <i>Developmental Cell</i> , 2020, 52, 210-222.e7.	3.1	70
48	RSK phosphorylates SOS1 creating 14-3-3-docking sites and negatively regulating MAPK activation. <i>Biochemical Journal</i> , 2012, 447, 159-166.	1.7	69
49	ERK2 regulates epithelial-to-mesenchymal plasticity through DOCK10-dependent Rac1/FoxO1 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2967-2976.	3.3	61
50	RSK regulates activated BRAF signalling to mTORC1 and promotes melanoma growth. <i>Oncogene</i> , 2013, 32, 2917-2926.	2.6	56
51	Paving the way for targeting RSK in cancer. <i>Expert Opinion on Therapeutic Targets</i> , 2011, 15, 5-9.	1.5	53
52	Controversies around the function of LARP1. <i>RNA Biology</i> , 2021, 18, 207-217.	1.5	49
53	High-throughput screening in niche-based assay identifies compounds to target preleukemic stem cells. <i>Journal of Clinical Investigation</i> , 2016, 126, 4569-4584.	3.9	49
54	SPIN90 associates with mDia1 and the Arp2/3 complex to regulate cortical actin organization. <i>Nature Cell Biology</i> , 2020, 22, 803-814.	4.6	48

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55	RSK Regulates PFK-2 Activity to Promote Metabolic Rewiring in Melanoma. <i>Cancer Research</i> , 2018, 78, 2191-2204.	0.4	47
56	Loss of DP1 Aggravates Vascular Remodeling in Pulmonary Arterial Hypertension via mTORC1 Signaling. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 1263-1276.	2.5	47
57	The p75 Neurotrophin Receptor (p75NTR) Alters Tumor Necrosis Factor-mediated NF- κ B Activity under Physiological Conditions, but Direct p75NTR-mediated NF- κ B Activation Requires Cell Stress. <i>Journal of Biological Chemistry</i> , 1999, 274, 21443-21449.	1.6	46
58	Mutations in DOCK7 in Individuals with Epileptic Encephalopathy and Cortical Blindness. <i>American Journal of Human Genetics</i> , 2014, 94, 891-897.	2.6	44
59	Casein Kinase 1 μ Promotes Cell Proliferation by Regulating mRNA Translation. <i>Cancer Research</i> , 2014, 74, 201-211.	0.4	43
60	Disruption of TBC1D7, a subunit of the TSC1-TSC2 protein complex, in intellectual disability and megalencephaly. <i>Journal of Medical Genetics</i> , 2013, 50, 740-744.	1.5	41
61	Translational control by oncogenic signaling pathways. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 753-765.	0.9	40
62	Focal Adhesion- and IGF1R-Dependent Survival and Migratory Pathways Mediate Tumor Resistance to mTORC1/2 Inhibition. <i>Molecular Cell</i> , 2017, 67, 512-527.e4.	4.5	40
63	Cell cycle regulation of Greatwall kinase nuclear localization facilitates mitotic progression. <i>Journal of Cell Biology</i> , 2013, 202, 277-293.	2.3	39
64	Receptor sequestration in response to β -arrestin-2 phosphorylation by ERK1/2 governs steady-state levels of GPCR cell-surface expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5160-8.	3.3	39
65	Activation and Function of the MAPKs and Their Substrates, the MAPK-Activated Protein Kinases. <i>Microbiology and Molecular Biology Reviews</i> , 2012, 76, 496-496.	2.9	35
66	Mind the GAP: Wnt Steps onto the mTORC1 Train. <i>Cell</i> , 2006, 126, 834-836.	13.5	34
67	Phosphorylation of the Eukaryotic Translation Initiation Factor 4E-Transporter (4E-T) by c-Jun N-Terminal Kinase Promotes Stress-Dependent P-Body Assembly. <i>Molecular and Cellular Biology</i> , 2012, 32, 4572-4584.	1.1	33
68	RSK promotes G2 DNA damage checkpoint silencing and participates in melanoma chemoresistance. <i>Oncogene</i> , 2013, 32, 4480-4489.	2.6	32
69	Gab2 Phosphorylation by RSK Inhibits Shp2 Recruitment and Cell Motility. <i>Molecular and Cellular Biology</i> , 2013, 33, 1657-1670.	1.1	30
70	Misshapen coordinates protrusion restriction and actomyosin contractility during collective cell migration. <i>Nature Communications</i> , 2019, 10, 3940.	5.8	29
71	Rapamycin Resistance: mTORC1 Substrates Hold Some of the Answers. <i>Current Biology</i> , 2013, 23, R880-R883.	1.8	28
72	Effect of the Transient Pharmacological Inhibition of Mapk3/1 Pathway on Ovulation in Mice. <i>PLoS ONE</i> , 2015, 10, e0119387.	1.1	28

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73	Human models of NUP98-KDM5A megakaryocytic leukemia in mice contribute to uncovering new biomarkers and therapeutic vulnerabilities. <i>Blood Advances</i> , 2019, 3, 3307-3321.	2.5	23
74	Insulin Activates RSK (p90 Ribosomal S6 Kinase) to Trigger a New Negative Feedback Loop That Regulates Insulin Signaling for Glucose Metabolism. <i>Journal of Biological Chemistry</i> , 2013, 288, 31165-31176.	1.6	22
75	A biosensor to monitor dynamic regulation and function of tumour suppressor PTEN in living cells. <i>Nature Communications</i> , 2014, 5, 4431.	5.8	21
76	NF45 and NF90 Regulate Mitotic Gene Expression by Competing with Staufen-Mediated mRNA Decay. <i>Cell Reports</i> , 2020, 31, 107660.	2.9	19
77	Extracellular Signal-Regulated Kinases 1 and 2 Phosphorylate Gab2 To Promote a Negative-Feedback Loop That Attenuates Phosphoinositide 3-Kinase/Akt Signaling. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	17
78	Predisposing germline mutations in high hyperdiploid acute lymphoblastic leukemia in children. <i>Genes Chromosomes and Cancer</i> , 2019, 58, 723-730.	1.5	17
79	Proteomic Analysis Reveals a Role for RSK in p120-catenin Phosphorylation and Melanoma Cell-Cell Adhesion. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 50-64.	2.5	16
80	Regulation of Karyopherin β 1 and Nuclear Import by Mammalian Target of Rapamycin. <i>Journal of Biological Chemistry</i> , 2012, 287, 14325-14335.	1.6	15
81	Rsk3. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	12
82	Rsk4. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	12
83	F-Box Proteins Elongate Translation During Stress Recovery. <i>Science Signaling</i> , 2012, 5, pe25.	1.6	11
84	Mechanistic target of rapamycin (MTOR) signaling during ovulation in mice. <i>Molecular Reproduction and Development</i> , 2014, 81, 655-665.	1.0	11
85	An ErbB2 splice variant lacking exon 16 drives lung carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20139-20148.	3.3	11
86	STRIPAK regulates Slik localization to control mitotic morphogenesis and epithelial integrity. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	10
87	CdGAP/ARHGAP31 is regulated by RSK phosphorylation and binding to 14-3-3 β adaptor protein. <i>Oncotarget</i> , 2018, 9, 11646-11664.	0.8	10
88	Triglyceride-derived fatty acids reduce autophagy in a model of retinal angiomatous proliferation. <i>JCI Insight</i> , 2022, 7, .	2.3	9
89	RIOK2 phosphorylation by RSK promotes synthesis of the human small ribosomal subunit. <i>PLoS Genetics</i> , 2021, 17, e1009583.	1.5	7
90	Proteomics Screen Identifies Class I Rab11 Family Interacting Proteins as Key Regulators of Cytokinesis. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	6

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91	Sustained ERK1/2 signaling is necessary for follicular rupture during ovulation in mice. <i>Reproduction</i> , 2021, 161, 183-193.	1.1	6
92	Targeting copper metabolism to defeat KRAS-driven colorectal cancer. <i>Molecular and Cellular Oncology</i> , 2020, 7, 1822123.	0.3	5
93	Coordination of Pro- and Anti-Inflammatory Signals Determine Human Hematopoietic Stem and Progenitor Cell Expansion. <i>Blood</i> , 2018, 132, 2555-2555.	0.6	5
94	CEACAM1 is a novel culture-compatible surface marker of expanded long-term reconstituting hematopoietic stem cells. <i>Blood Advances</i> , 2022, 6, 3626-3631.	2.5	3
95	Regulation of protein kinase C γ Nuclear Import and Apoptosis by Mechanistic Target of Rapamycin Complex-1. <i>Scientific Reports</i> , 2019, 9, 17620.	1.6	2
96	MAPK Signaling in Human Diseases. , 2006, , 135-149.		1
97	Rsk1. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	1
98	Mubritinib Targets the Electron Transport Chain Complex I and Reveals the Landscape of Mitochondrial Vulnerability in Acute Myeloid Leukemia. <i>Blood</i> , 2018, 132, 910-910.	0.6	1
99	Targeting pre-leukemic stem cells in T-acute lymphoblastic leukemia. <i>Experimental Hematology</i> , 2015, 43, S49.	0.2	0
100	ISDN2014_0400: Mutations in <i>DOCK7</i> in individuals with epileptic encephalopathy and cortical blindness. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 119-120.	0.7	0
101	P90 Ribosomal S6 Kinase is a Potential Diabetes Therapeutic Target. <i>Canadian Journal of Diabetes</i> , 2018, 42, S57.	0.4	0
102	Nckipso Coordinates Arp2/3 and Formin Nucleation of Actin Filaments in the Cell Cortex. <i>Biophysical Journal</i> , 2019, 116, 253a.	0.2	0
103	Cell Growth Regulation by PI3 β kinase, Ras and mTOR Signal Integration. <i>FASEB Journal</i> , 2006, 20, A852.	0.2	0
104	Abstract 5191: Gab2 phosphorylation by RSK inhibits Shp2 recruitment and cell motility.. , 2013, , .		0
105	RSK (p90 Ribosomal S6 Kinase). , 2016, , 1-6.		0
106	Targeting Pre-Leukemic Stem Cells in T-Acute Lymphoblastic Leukemia. <i>Blood</i> , 2016, 128, 527-527.	0.6	0
107	RSK (p90 Ribosomal S6 Kinase). , 2018, , 4762-4767.		0
108	Abstract 3502: Chemoproteomics provide insights into cell surface reprogramming during KRAS-mediated transformation. , 2018, , .		0

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109	Germline GAB2 Mutations in Childhood Acute Lymphoblastic Leukemia. Blood, 2018, 132, 388-388.	0.6	0