

# Philippe P Roux

## List of Publications by Citations

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100  
papers

12,923  
citations

45  
h-index

113  
g-index

114  
ext. papers

14,931  
ext. citations

8.8  
avg, IF

6.68  
L-index

#	Paper	IF	Citations
100	ERK and p38 MAPK-activated protein kinases: a family of protein kinases with diverse biological functions. <i>Microbiology and Molecular Biology Reviews</i> , <b>2004</b> , 68, 320-44	13.2	1737
99	Activation and function of the MAPKs and their substrates, the MAPK-activated protein kinases. <i>Microbiology and Molecular Biology Reviews</i> , <b>2011</b> , 75, 50-83	13.2	1660
98	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> , <b>2003</b> , 13, 1259-68	6.3	923
97	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> , <b>2008</b> , 105, 17414-9	11.5	625
96	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> , <b>2004</b> , 101, 13489-94	11.5	605
95	Neurotrophin signaling through the p75 neurotrophin receptor. <i>Progress in Neurobiology</i> , <b>2002</b> , 67, 203-33.9	33.9	582
94	RAS/ERK signaling promotes site-specific ribosomal protein S6 phosphorylation via RSK and stimulates cap-dependent translation. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 14056-64	5.4	537
93	The mTOR/PI3K and MAPK pathways converge on eIF4B to control its phosphorylation and activity. <i>EMBO Journal</i> , <b>2006</b> , 25, 2781-91	13	391
92	mTORC1-activated S6K1 phosphorylates Rictor on threonine 1135 and regulates mTORC2 signaling. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 908-21	4.8	321
91	Regulation and function of the RSK family of protein kinases. <i>Biochemical Journal</i> , <b>2012</b> , 441, 553-69	3.8	253
90	mTORC2 can associate with ribosomes to promote cotranslational phosphorylation and stability of nascent Akt polypeptide. <i>EMBO Journal</i> , <b>2010</b> , 29, 3939-51	13	244
89	NRAGE, a novel MAGE protein, interacts with the p75 neurotrophin receptor and facilitates nerve growth factor-dependent apoptosis. <i>Neuron</i> , <b>2000</b> , 27, 279-88	13.9	244
88	Oncogenic MAPK signaling stimulates mTORC1 activity by promoting RSK-mediated raptor phosphorylation. <i>Current Biology</i> , <b>2008</b> , 18, 1269-77	6.3	237
87	Actin cortex architecture regulates cell surface tension. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 689-697	23.4	197
86	p75 neurotrophin receptor expression is induced in apoptotic neurons after seizure. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 6887-96	6.6	194
85	Transmembrane receptor DCC associates with protein synthesis machinery and regulates translation. <i>Cell</i> , <b>2010</b> , 141, 632-44	56.2	188
84	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> , <b>2005</b> , 102, 667-72	11.5	184

83	Proteomic analysis of cap-dependent translation identifies LARP1 as a key regulator of 5' TOP mRNA translation. <i>Genes and Development</i> , <b>2014</b> , 28, 357-71	12.6	176
82	A comprehensive map of the mTOR signaling network. <i>Molecular Systems Biology</i> , <b>2010</b> , 6, 453	12.2	171
81	ERK1/2 phosphorylate Raptor to promote Ras-dependent activation of mTOR complex 1 (mTORC1). <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 567-77	5.4	167
80	Cellular control of cortical actin nucleation. <i>Current Biology</i> , <b>2014</b> , 24, 1628-1635	6.3	151
79	The RSK factors of activating the Ras/MAPK signaling cascade. <i>Frontiers in Bioscience - Landmark</i> , <b>2008</b> , 13, 4258-75	2.8	148
78	Phosphorylation of p90 ribosomal S6 kinase (RSK) regulates extracellular signal-regulated kinase docking and RSK activity. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 4796-804	4.8	146
77	Signaling Pathways Involved in the Regulation of mRNA Translation. <i>Molecular and Cellular Biology</i> , <b>2018</b> , 38,	4.8	138
76	Regulation of mTOR complex 1 (mTORC1) by raptor Ser863 and multisite phosphorylation. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 80-94	5.4	131
75	Regulation of mRNA translation by signaling pathways. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2012</b> , 4,	10.2	116
74	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> , <b>2004</b> , 24, 3040-50	6.6	109
73	The p75 neurotrophin receptor activates Akt (protein kinase B) through a phosphatidylinositol 3-kinase-dependent pathway. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 23097-104	5.4	108
72	The tumor suppressor DAP kinase is a target of RSK-mediated survival signaling. <i>Current Biology</i> , <b>2005</b> , 15, 1762-7	6.3	107
71	The expanding role of mTOR in cancer cell growth and proliferation. <i>Mutagenesis</i> , <b>2015</b> , 30, 169-76	2.8	103
70	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> , <b>2008</b> , 10, R99	8.3	103
69	Activation of transcription factors NF-kappaB and NF-IL-6 by human immunodeficiency virus type 1 protein R (Vpr) induces interleukin-8 expression. <i>Journal of Virology</i> , <b>2000</b> , 74, 4658-65	6.6	96
68	EPCR expression marks UM171-expanded CD34 cord blood stem cells. <i>Blood</i> , <b>2017</b> , 129, 3344-3351	2.2	93
67	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> , <b>2002</b> , 277, 49473-80	5.4	81
66	The MHC I immunopeptidome conveys to the cell surface an integrative view of cellular regulation. <i>Molecular Systems Biology</i> , <b>2011</b> , 7, 533	12.2	80

65	Mubritinib Targets the Electron Transport Chain Complex I and Reveals the Landscape of OXPHOS Dependency in Acute Myeloid Leukemia. <i>Cancer Cell</i> , <b>2019</b> , 36, 84-99.e8	24.3	75
64	The Receptor Tyrosine Kinase AXL Is Required at Multiple Steps of the Metastatic Cascade during HER2-Positive Breast Cancer Progression. <i>Cell Reports</i> , <b>2018</b> , 23, 1476-1490	10.6	74
63	The coming of age of phosphoproteomics--from large data sets to inference of protein functions. <i>Molecular and Cellular Proteomics</i> , <b>2013</b> , 12, 3453-64	7.6	74
62	Increased apoptosis, changes in intracellular Ca <sup>2+</sup> , 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> , <b>1998</b> , 54, 63-76	3.2	74
61	A new inhibitor of the ß-arrestin/AP2 endocytic complex reveals interplay between GPCR internalization and signalling. <i>Nature Communications</i> , <b>2017</b> , 8, 15054	17.4	73
60	Glycogen synthase kinase-3β positively regulates protein synthesis and cell proliferation through the regulation of translation initiation factor 4E-binding protein 1. <i>Oncogene</i> , <b>2014</b> , 33, 1690-9	9.2	73
59	Regulation of global and specific mRNA translation by the mTOR signaling pathway. <i>Translation</i> , <b>2015</b> , 3, e983402		68
58	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> , <b>2014</b> , 111, E2918-27	11.5	54
57	Cell cortex composition and homeostasis resolved by integrating proteomics and quantitative imaging. <i>Cytoskeleton</i> , <b>2013</b> , 70, 741-54	2.4	53
56	RSK phosphorylates SOS1 creating 14-3-3-docking sites and negatively regulating MAPK activation. <i>Biochemical Journal</i> , <b>2012</b> , 447, 159-66	3.8	46
55	RSK regulates activated BRAF signalling to mTORC1 and promotes melanoma growth. <i>Oncogene</i> , <b>2013</b> , 32, 2917-2926	9.2	43
54	Paving the way for targeting RSK in cancer. <i>Expert Opinion on Therapeutic Targets</i> , <b>2011</b> , 15, 5-9	6.4	42
53	The p75 neurotrophin receptor (p75NTR) alters tumor necrosis factor-mediated NF-kappaB activity under physiological conditions, but direct p75NTR-mediated NF-kappaB activation requires cell stress. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 21443-9	5.4	41
52	Defining the role of the RSK isoforms in cancer. <i>Seminars in Cancer Biology</i> , <b>2018</b> , 48, 53-61	12.7	36
51	Translational control by oncogenic signaling pathways. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2015</b> , 1849, 753-65	6	35
50	Casein kinase 1β promotes cell proliferation by regulating mRNA translation. <i>Cancer Research</i> , <b>2014</b> , 74, 201-11	10.1	35
49	Disruption of TBC1D7, a subunit of the TSC1-TSC2 protein complex, in intellectual disability and megalencephaly. <i>Journal of Medical Genetics</i> , <b>2013</b> , 50, 740-4	5.8	34
48	Mutations in DOCK7 in individuals with epileptic encephalopathy and cortical blindness. <i>American Journal of Human Genetics</i> , <b>2014</b> , 94, 891-7	11	33

47	Receptor sequestration in response to Errestin-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> , <b>2015</b> , 112, E5160-8	11.5	32
46	Cell cycle regulation of Greatwall kinase nuclear localization facilitates mitotic progression. <i>Journal of Cell Biology</i> , <b>2013</b> , 202, 277-93	7.3	31
45	Mind the GAP: Wnt steps onto the mTORC1 train. <i>Cell</i> , <b>2006</b> , 126, 834-6	56.2	30
44	High-throughput screening in niche-based assay identifies compounds to target preleukemic stem cells. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 4569-4584	15.9	30
43	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> , <b>2012</b> , 32, 4572-84	4.8	29
42	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> , <b>2019</b> , 116, 2967-2976	11.5	26
41	RSK promotes G2 DNA damage checkpoint silencing and participates in melanoma chemoresistance. <i>Oncogene</i> , <b>2013</b> , 32, 4480-9	9.2	26
40	F-Actin Interactome Reveals Vimentin as a Key Regulator of Actin Organization and Cell Mechanics in Mitosis. <i>Developmental Cell</i> , <b>2020</b> , 52, 210-222.e7	10.2	26
39	Focal Adhesion- and IGF1R-Dependent Survival and Migratory Pathways Mediate Tumor Resistance to mTORC1/2 Inhibition. <i>Molecular Cell</i> , <b>2017</b> , 67, 512-527.e4	17.6	25
38	Gab2 phosphorylation by RSK inhibits Shp2 recruitment and cell motility. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 1657-70	4.8	24
37	RSK Regulates PFK-2 Activity to Promote Metabolic Rewiring in Melanoma. <i>Cancer Research</i> , <b>2018</b> , 78, 2191-2204	10.1	23
36	Activation and Function of the MAPKs and Their Substrates, the MAPK-Activated Protein Kinases. <i>Microbiology and Molecular Biology Reviews</i> , <b>2012</b> , 76, 496-496	13.2	23
35	SPIN90 associates with mDia1 and the Arp2/3 complex to regulate cortical actin organization. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 803-814	23.4	22
34	Rapamycin resistance: mTORC1 substrates hold some of the answers. <i>Current Biology</i> , <b>2013</b> , 23, R880-3	6.3	21
33	Loss of DP1 Aggravates Vascular Remodeling in Pulmonary Arterial Hypertension via mTORC1 Signaling. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2020</b> , 201, 1263-1276	10.2	21
32	Copper bioavailability is a KRAS-specific vulnerability in colorectal cancer. <i>Nature Communications</i> , <b>2020</b> , 11, 3701	17.4	21
31	A biosensor to monitor dynamic regulation and function of tumour suppressor PTEN in living cells. <i>Nature Communications</i> , <b>2014</b> , 5, 4431	17.4	17
30	Controversies around the function of LARP1. <i>RNA Biology</i> , <b>2021</b> , 18, 207-217	4.8	17

29	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> , <b>2013</b> , 288, 31165-76	5.4	16
28	Effect of the transient pharmacological inhibition of Mapk3/1 pathway on ovulation in mice. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119387	3.7	15
27	Human models of NUP98-KDM5A megakaryocytic leukemia in mice contribute to uncovering new biomarkers and therapeutic vulnerabilities. <i>Blood Advances</i> , <b>2019</b> , 3, 3307-3321	7.8	15
26	Regulation of karyopherin $\beta$ and nuclear import by mammalian target of rapamycin. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 14325-35	5.4	13
25	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> , <b>2017</b> , 37,	4.8	12
24	F-box proteins elongate translation during stress recovery. <i>Science Signaling</i> , <b>2012</b> , 5, pe25	8.8	11
23	Rsk3. <i>The AFCS-nature Molecule Pages</i> ,		11
22	Rsk4. <i>The AFCS-nature Molecule Pages</i> ,		11
21	Misshapen coordinates protrusion restriction and actomyosin contractility during collective cell migration. <i>Nature Communications</i> , <b>2019</b> , 10, 3940	17.4	10
20	Predisposing germline mutations in high hyperdiploid acute lymphoblastic leukemia in children. <i>Genes Chromosomes and Cancer</i> , <b>2019</b> , 58, 723-730	5	10
19	Mechanistic target of rapamycin (MTOR) signaling during ovulation in mice. <i>Molecular Reproduction and Development</i> , <b>2014</b> , 81, 655-65	2.6	8
18	NF45 and NF90 Regulate Mitotic Gene Expression by Competing with Staufen-Mediated mRNA Decay. <i>Cell Reports</i> , <b>2020</b> , 31, 107660	10.6	6
17	Proteomics Screen Identifies Class I Rab11 Family Interacting Proteins as Key Regulators of Cytokinesis. <i>Molecular and Cellular Biology</i> , <b>2017</b> , 37,	4.8	6
16	Proteomic Analysis Reveals a Role for RSK in p120-catenin Phosphorylation and Melanoma Cell-Cell Adhesion. <i>Molecular and Cellular Proteomics</i> , <b>2020</b> , 19, 50-64	7.6	5
15	CdGAP/ARHGAP31 is regulated by RSK phosphorylation and binding to 14-3-3 adaptor protein. <i>Oncotarget</i> , <b>2018</b> , 9, 11646-11664	3.3	5
14	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> , <b>2020</b> , 117, 20139-20148	11.5	3
13	STRIPAK regulates Slik localization to control mitotic morphogenesis and epithelial integrity. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	2
12	Targeting copper metabolism to defeat KRAS-driven colorectal cancer. <i>Molecular and Cellular Oncology</i> , <b>2020</b> , 7, 1822123	1.2	2

11	MAPK Signaling in Human Diseases <b>2006</b> , 135-149		1
10	Rsk1. <i>The AFCS-nature Molecule Pages</i> ,		1
9	RIOK2 phosphorylation by RSK promotes synthesis of the human small ribosomal subunit. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009583	6	1
8	Mubritinib Targets the Electron Transport Chain Complex I and Reveals the Landscape of Mitochondrial Vulnerability in Acute Myeloid Leukemia. <i>Blood</i> , <b>2018</b> , 132, 910-910	2.2	0
7	Regulation of protein kinase C Nuclear Import and Apoptosis by Mechanistic Target of Rapamycin Complex-1. <i>Scientific Reports</i> , <b>2019</b> , 9, 17620	4.9	0
6	Sustained ERK1/2 signaling is necessary for follicular rupture during ovulation in mice. <i>Reproduction</i> , <b>2021</b> , 161, 183-193	3.8	0
5	ISDN2014_0400: Mutations in DOCK7 in individuals with epileptic encephalopathy and cortical blindness. <i>International Journal of Developmental Neuroscience</i> , <b>2015</b> , 47, 119-120	2.7	
4	Cell Growth Regulation by PI3-kinase, Ras and mTOR Signal Integration. <i>FASEB Journal</i> , <b>2006</b> , 20, A852	0.9	
3	Germline GAB2 Mutations in Childhood Acute Lymphoblastic Leukemia. <i>Blood</i> , <b>2018</b> , 132, 388-388	2.2	
2	Coordination of Pro- and Anti-Inflammatory Signals Determine Human Hematopoietic Stem and Progenitor Cell Expansion. <i>Blood</i> , <b>2018</b> , 132, 2555-2555	2.2	
1	Targeting Pre-Leukemic Stem Cells in T-Acute Lymphoblastic Leukemia. <i>Blood</i> , <b>2016</b> , 128, 527-527	2.2	