Philippe P Roux

List of Publications by Year
in descending order

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109 papers	16,434 citations	44444 50 h-index	43601 95 g-index
114 all docs	114 docs citations	114 times ranked	28305 citing authors

#	Article	IF	Citations
1	CEACAM1 is a novel culture-compatible surface marker of expanded long-term reconstituting hematopoietic stem cells. Blood Advances, 2022, 6, 3626-3631.	2.5	3
2	Triglyceride-derived fatty acids reduce autophagy in a model of retinal angiomatous proliferation. JCI Insight, 2022, 7, .	2.3	9
3	Controversies around the function of LARP1. RNA Biology, 2021, 18, 207-217.	1.5	49
4	Sustained ERK1/2 signaling is necessary for follicular rupture during ovulation in mice. Reproduction, 2021, 161, 183-193.	1.1	6
5	RIOK2 phosphorylation by RSK promotes synthesis of the human small ribosomal subunit. PLoS Genetics, 2021, 17, e1009583.	1.5	7
6	Loss of DP1 Aggravates Vascular Remodeling in Pulmonary Arterial Hypertension via mTORC1 Signaling. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1263-1276.	2.5	47
7	F-Actin Interactome Reveals Vimentin as a Key Regulator of Actin Organization and Cell Mechanics in Mitosis. Developmental Cell, 2020, 52, 210-222.e7.	3.1	70
8	Copper bioavailability is a KRAS-specific vulnerability in colorectal cancer. Nature Communications, 2020, 11, 3701.	5.8	128
9	An ErbB2 splice variant lacking exon 16 drives lung carcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20139-20148.	3.3	11
10	Targeting copper metabolism to defeat KRAS-driven colorectal cancer. Molecular and Cellular Oncology, 2020, 7, 1822123.	0.3	5
11	Proteomic Analysis Reveals a Role for RSK in p120-catenin Phosphorylation and Melanoma Cell-Cell Adhesion. Molecular and Cellular Proteomics, 2020, 19, 50-64.	2.5	16
12	NF45 and NF90 Regulate Mitotic Gene Expression by Competing with Staufen-Mediated mRNA Decay. Cell Reports, 2020, 31, 107660.	2.9	19
13	SPIN90 associates with mDia1 and the Arp2/3 complex to regulate cortical actin organization. Nature Cell Biology, 2020, 22, 803-814.	4.6	48
14	STRIPAK regulates Slik localization to control mitotic morphogenesis and epithelial integrity. Journal of Cell Biology, 2020, 219, .	2.3	10
15	Mubritinib Targets the Electron Transport Chain Complex I and Reveals the Landscape of OXPHOS Dependency in Acute Myeloid Leukemia. Cancer Cell, 2019, 36, 84-99.e8.	7.7	163
16	Misshapen coordinates protrusion restriction and actomyosin contractility during collective cell migration. Nature Communications, 2019, 10, 3940.	5.8	29
17	Predisposing germline mutations in high hyperdiploid acute lymphoblastic leukemia in children. Genes Chromosomes and Cancer, 2019, 58, 723-730.	1.5	17
18	Nckipsd Coordinates Arp2/3 and Formin Nucleation of Actin Filaments in the Cell Cortex. Biophysical Journal, 2019, 116, 253a.	0.2	0

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19	ERK2 regulates epithelial-to-mesenchymal plasticity through DOCK10-dependent Rac1/FoxO1 activation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2967-2976.	3.3	61
20	Regulation of protein kinase CÎ´ Nuclear Import and Apoptosis by Mechanistic Target of Rapamycin Complex-1. Scientific Reports, 2019, 9, 17620.	1.6	2
21	Human models of NUP98-KDM5A megakaryocytic leukemia in mice contribute to uncovering new biomarkers and therapeutic vulnerabilities. Blood Advances, 2019, 3, 3307-3321.	2.5	23
22	RSK Regulates PFK-2 Activity to Promote Metabolic Rewiring in Melanoma. Cancer Research, 2018, 78, 2191-2204.	0.4	47
23	The Receptor Tyrosine Kinase AXL Is Required at Multiple Steps of the Metastatic Cascade during HER2-Positive Breast Cancer Progression. Cell Reports, 2018, 23, 1476-1490.	2.9	127
24	Signaling Pathways Involved in the Regulation of mRNA Translation. Molecular and Cellular Biology, 2018, 38, .	1.1	236
25	Defining the role of the RSK isoforms in cancer. Seminars in Cancer Biology, 2018, 48, 53-61.	4.3	71
26	P90 Ribosomal S6 Kinase is a Potential Diabetes Therapeutic Target. Canadian Journal of Diabetes, 2018, 42, S57.	0.4	0
27	CdGAP/ARHGAP31 is regulated by RSK phosphorylation and binding to 14-3-3Î² adaptor protein. Oncotarget, 2018, 9, 11646-11664.	0.8	10
28	RSK (p90 Ribosomal S6 Kinase). , 2018, , 4762-4767.		0
29	Abstract 3502: Chemoproteomics provide insights into cell surface reprogramming during KRAS-mediated transformation. , 2018, , .		0
30	Mubritinib Targets the Electron Transport Chain Complex I and Reveals the Landscape of Mitochondrial Vulnerability in Acute Myeloid Leukemia. Blood, 2018, 132, 910-910.	0.6	1
31	Germline GAB2 Mutations in Childhood Acute Lymphoblastic Leukemia. Blood, 2018, 132, 388-388.	0.6	0
32	Coordination of Pro- and Anti-Inflammatory Signals Determine Human Hematopoietic Stem and Progenitor Cell Expansion. Blood, 2018, 132, 2555-2555.	0.6	5
33	Extracellular Signal-Regulated Kinases 1 and 2 Phosphorylate Gab2 To Promote a Negative-Feedback Loop That Attenuates Phosphoinositide 3-Kinase/Akt Signaling. Molecular and Cellular Biology, 2017, 37, .	1.1	17
34	EPCR expression marks UM171-expanded CD34+ cord blood stem cells. Blood, 2017, 129, 3344-3351.	0.6	158
35	A new inhibitor of the Î²-arrestin/AP2 endocytic complex reveals interplay between GPCR internalization and signalling. Nature Communications, 2017, 8, 15054.	5.8	111
36	Actin cortex architecture regulates cell surface tension. Nature Cell Biology, 2017, 19, 689-697.	4.6	325

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37	Focal Adhesion- and IGF1R-Dependent Survival and Migratory Pathways Mediate Tumor Resistance to mTORC1/2 Inhibition. Molecular Cell, 2017, 67, 512-527.e4.	4.5	40
38	Proteomics Screen Identifies Class I Rab11 Family Interacting Proteins as Key Regulators of Cytokinesis. Molecular and Cellular Biology, 2017, 37, .	1.1	6
39	High-throughput screening in niche-based assay identifies compounds to target preleukemic stem cells. Journal of Clinical Investigation, 2016, 126, 4569-4584.	3.9	49
40	RSK (p90 Ribosomal S6 Kinase). , 2016, , 1-6.		0
41	Targeting Pre-Leukemic Stem Cells in T-Acute Lymphoblastic Leukemia. Blood, 2016, 128, 527-527.	0.6	0
42	Targeting pre-leukemic stem cells in T-acute lymphoblastic leukemia. Experimental Hematology, 2015, 43, S49.	0.2	0
43	ISDN2014_0400: Mutations in DOCK7 in individuals with epileptic encephalopathy and cortical blindness. International Journal of Developmental Neuroscience, 2015, 47, 119-120.	0.7	0
44	Effect of the Transient Pharmacological Inhibition of Mapk3/1 Pathway on Ovulation in Mice. PLoS ONE, 2015, 10, e0119387.	1.1	28
45	Regulation of global and specific mRNA translation by the mTOR signaling pathway. Translation, 2015, 3, e983402.	2.9	117
46	The expanding role of mTOR in cancer cell growth and proliferation. Mutagenesis, 2015, 30, 169-176.	1.0	154
47	Receptor sequestration in response to Î²-arrestin-2 phosphorylation by ERK1/2 governs steady-state levels of GPCR cell-surface expression. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5160-8.	3.3	39
48	Translational control by oncogenic signaling pathways. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 753-765.	0.9	40
49	Mechanistic target of rapamycin (MTOR) signaling during ovulation in mice. Molecular Reproduction and Development, 2014, 81, 655-665.	1.0	11
50	Glycogen synthase kinase-3Î² positively regulates protein synthesis and cell proliferation through the regulation of translation initiation factor 4E-binding protein 1. Oncogene, 2014, 33, 1690-1699.	2.6	86
51	Proteomic analysis of cap-dependent translation identifies LARP1 as a key regulator of 5â€²TOP mRNA translation. Genes and Development, 2014, 28, 357-371.	2.7	229
52	Casein Kinase 1Ïµ Promotes Cell Proliferation by Regulating mRNA Translation. Cancer Research, 2014, 74, 201-211.	0.4	43
53	Phosphoproteomic analysis identifies the tumor suppressor PDCD4 as a RSK substrate negatively regulated by 14-3-3. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2918-27.	3.3	70
54	Cellular Control of Cortical Actin Nucleation. Current Biology, 2014, 24, 1628-1635.	1.8	219

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55	A biosensor to monitor dynamic regulation and function of tumour suppressor PTEN in living cells. Nature Communications, 2014, 5, 4431.	5.8	21
56	Mutations in DOCK7 in Individuals with Epileptic Encephalopathy and Cortical Blindness. American Journal of Human Genetics, 2014, 94, 891-897.	2.6	44
57	RSK regulates activated BRAF signalling to mTORC1 and promotes melanoma growth. Oncogene, 2013, 32, 2917-2926.	2.6	56
58	The Coming of Age of Phosphoproteomicsâ€"from Large Data Sets to Inference of Protein Functions. Molecular and Cellular Proteomics, 2013, 12, 3453-3464.	2.5	90
59	RSK promotes G2 DNA damage checkpoint silencing and participates in melanoma chemoresistance. Oncogene, 2013, 32, 4480-4489.	2.6	32
60	Rapamycin Resistance: mTORC1 Substrates Hold Some of the Answers. Current Biology, 2013, 23, R880-R883.	1.8	28
61	Cell cycle regulation of Greatwall kinase nuclear localization facilitates mitotic progression. Journal of Cell Biology, 2013, 202, 277-293.	2.3	39
62	Disruption of TBC1D7, a subunit of the TSC1-TSC2 protein complex, in intellectual disability and megalencephaly. Journal of Medical Genetics, 2013, 50, 740-744.	1.5	41
63	Insulin Activates RSK (p90 Ribosomal S6 Kinase) to Trigger a New Negative Feedback Loop That Regulates Insulin Signaling for Glucose Metabolism. Journal of Biological Chemistry, 2013, 288, 31165-31176.	1.6	22
64	Cell cortex composition and homeostasis resolved by integrating proteomics and quantitative imaging. Cytoskeleton, 2013, 70, 741-754.	1.0	76
65	Gab2 Phosphorylation by RSK Inhibits Shp2 Recruitment and Cell Motility. Molecular and Cellular Biology, 2013, 33, 1657-1670.	1.1	30
66	Abstract 5191: Gab2 phosphorylation by RSK inhibits Shp2 recruitment and cell motility.. , 2013, , .		0
67	RSK phosphorylates SOS1 creating 14-3-3-docking sites and negatively regulating MAPK activation. Biochemical Journal, 2012, 447, 159-166.	1.7	69
68	Activation and Function of the MAPKs and Their Substrates, the MAPK-Activated Protein Kinases. Microbiology and Molecular Biology Reviews, 2012, 76, 496-496.	2.9	35
69	F-Box Proteins Elongate Translation During Stress Recovery. Science Signaling, 2012, 5, pe25.	1.6	11
70	Regulation of mRNA Translation by Signaling Pathways. Cold Spring Harbor Perspectives in Biology, 2012, 4, a012252-a012252.	2.3	146
71	Regulation of Karyopherin Î±1 and Nuclear Import by Mammalian Target of Rapamycin. Journal of Biological Chemistry, 2012, 287, 14325-14335.	1.6	15
72	Phosphorylation of the Eukaryotic Translation Initiation Factor 4E-Transporter (4E-T) by c-Jun N-Terminal Kinase Promotes Stress-Dependent P-Body Assembly. Molecular and Cellular Biology, 2012, 32, 4572-4584.	1.1	33

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73	Regulation and function of the RSK family of protein kinases. Biochemical Journal, 2012, 441, 553-569.	1.7	326
74	Paving the way for targeting RSK in cancer. Expert Opinion on Therapeutic Targets, 2011, 15, 5-9.	1.5	53
75	Activation and Function of the MAPKs and Their Substrates, the MAPK-Activated Protein Kinases. Microbiology and Molecular Biology Reviews, 2011, 75, 50-83.	2.9	2,328
76	ERK1/2 Phosphorylate Raptor to Promote Ras-dependent Activation of mTOR Complex 1 (mTORC1). Journal of Biological Chemistry, 2011, 286, 567-577.	1.6	209
77	The MHC I immunopeptidome conveys to the cell surface an integrative view of cellular regulation. Molecular Systems Biology, 2011, 7, 533.	3.2	113
78	mTORC2 can associate with ribosomes to promote cotranslational phosphorylation and stability of nascent Akt polypeptide. EMBO Journal, 2010, 29, 3939-3951.	3.5	290
79	mTORC1-Activated S6K1 Phosphorylates Rictor on Threonine 1135 and Regulates mTORC2 Signaling. Molecular and Cellular Biology, 2010, 30, 908-921.	1.1	365
80	Regulation of mTOR Complex 1 (mTORC1) by Raptor Ser863 and Multisite Phosphorylation. Journal of Biological Chemistry, 2010, 285, 80-94.	1.6	158
81	Transmembrane Receptor DCC Associates with Protein Synthesis Machinery and Regulates Translation. Cell, 2010, 141, 632-644.	13.5	211
82	A comprehensive map of the mTOR signaling network. Molecular Systems Biology, 2010, 6, 453.	3.2	201
83	Oncogenic MAPK Signaling Stimulates mTORC1 Activity by Promoting RSK-Mediated Raptor Phosphorylation. Current Biology, 2008, 18, 1269-1277.	1.8	291
84	Y-box binding protein-1 serine 102 is a downstream target of p90 ribosomal S6 kinase in basal-like breast cancer cells. Breast Cancer Research, 2008, 10, R99.	2.2	123
85	Rapamycin differentially inhibits S6Ks and 4E-BP1 to mediate cell-type-specific repression of mRNA translation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17414-17419.	3.3	716
86	The RSK factors of activating the Ras/MAPK signaling cascade. Frontiers in Bioscience - Landmark, 2008, Volume, 4258.	3.0	183
87	RAS/ERK Signaling Promotes Site-specific Ribosomal Protein S6 Phosphorylation via RSK and Stimulates Cap-dependent Translation. Journal of Biological Chemistry, 2007, 282, 14056-14064.	1.6	627
88	Mind the GAP: Wnt Steps onto the mTORC1 Train. Cell, 2006, 126, 834-836.	13.5	34
89	The mTOR/PI3K and MAPK pathways converge on eIF4B to control its phosphorylation and activity. EMBO Journal, 2006, 25, 2781-2791.	3.5	459
90	MAPK Signaling in Human Diseases. , 2006, , 135-149.		1

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91	Cell Growth Regulation by PI3â€kinase, Ras and mTOR Signal Integration. FASEB Journal, 2006, 20, A852.	0.2	0
92	The Tumor Suppressor DAP Kinase Is a Target of RSK-Mediated Survival Signaling. Current Biology, 2005, 15, 1762-1767.	1.8	130
93	Quantitative phosphorylation profiling of the ERK/p90 ribosomal S6 kinase-signaling cassette and its targets, the tuberous sclerosis tumor suppressors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 667-672.	3.3	201
94	ERK and p38 MAPK-Activated Protein Kinases: a Family of Protein Kinases with Diverse Biological Functions. Microbiology and Molecular Biology Reviews, 2004, 68, 320-344.	2.9	2,059
95	Tumor-promoting phorbol esters and activated Ras inactivate the tuberous sclerosis tumor suppressor complex via p90 ribosomal S6 kinase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13489-13494.	3.3	661
96	Protein Kinase A Activation Promotes Plasma Membrane Insertion of DCC from an Intracellular Pool: A Novel Mechanism Regulating Commissural Axon Extension. Journal of Neuroscience, 2004, 24, 3040-3050.	1.7	121
97	Tuberous Sclerosis Complex Gene Products, Tuberin and Hamartin, Control mTOR Signaling by Acting as a GTPase-Activating Protein Complex toward Rheb. Current Biology, 2003, 13, 1259-1268.	1.8	1,047
98	Phosphorylation of p90 Ribosomal S6 Kinase (RSK) Regulates Extracellular Signal-Regulated Kinase Docking and RSK Activity. Molecular and Cellular Biology, 2003, 23, 4796-4804.	1.1	173
99	K252a and CEP1347 Are Neuroprotective Compounds That Inhibit Mixed-lineage Kinase-3 and Induce Activation of Akt and ERK. Journal of Biological Chemistry, 2002, 277, 49473-49480.	1.6	91
100	Neurotrophin signaling through the p75 neurotrophin receptor. Progress in Neurobiology, 2002, 67, 203-233.	2.8	639
101	The p75 Neurotrophin Receptor Activates Akt (Protein Kinase B) through a Phosphatidylinositol 3-Kinase-dependent Pathway. Journal of Biological Chemistry, 2001, 276, 23097-23104.	1.6	130
102	Activation of Transcription Factors NF-ÎºB and NF-IL-6 by Human Immunodeficiency Virus Type 1 Protein R (Vpr) Induces Interleukin-8 Expression. Journal of Virology, 2000, 74, 4658-4665.	1.5	103
103	NRAGE, A Novel MAGE Protein, Interacts with the p75 Neurotrophin Receptor and Facilitates Nerve Growth Factorâ€“Dependent Apoptosis. Neuron, 2000, 27, 279-288.	3.8	263
104	p75 Neurotrophin Receptor Expression Is Induced in Apoptotic Neurons After Seizure. Journal of Neuroscience, 1999, 19, 6887-6896.	1.7	203
105	The p75 Neurotrophin Receptor (p75NTR) Alters Tumor Necrosis Factor-mediated NF-ÎºB Activity under Physiological Conditions, but Direct p75NTR-mediated NF-ÎºB Activation Requires Cell Stress. Journal of Biological Chemistry, 1999, 274, 21443-21449.	1.6	46
106	INCREASED APOPTOSIS, CHANGES IN INTRACELLULAR Ca2+, AND FUNCTIONAL ALTERATIONS IN LYMPHOCYTES AND MACROPHAGES AFTER IN VITRO EXPOSURE TO STATIC MAGNETIC FIELD. Journal of Toxicology and Environmental Health - Part A: Current Issues, 1998, 54, 63-76.	1.1	88
107	Rsk1. The AFCS-nature Molecule Pages, 0, , .	0.2	1
108	Rsk3. The AFCS-nature Molecule Pages, 0, , .	0.2	12

#	Article	IF	Citations
109	Rsk4. The AFCS-nature Molecule Pages, 0, , .	0.2	12