

Thomas M Roberts

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

14,146
citations

70961

41
h-index

71532

76
g-index

83
all docs

83
docs citations

83
times ranked

18947
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting the phosphoinositide 3-kinase pathway in cancer. <i>Nature Reviews Drug Discovery</i> , 2009, 8, 627-644.	21.5	2,218
2	COT drives resistance to RAF inhibition through MAP kinase pathway reactivation. <i>Nature</i> , 2010, 468, 968-972.	13.7	1,325
3	CDK4/6 inhibition triggers anti-tumour immunity. <i>Nature</i> , 2017, 548, 471-475.	13.7	998
4	Association of phosphatidylinositol kinase activity with polyoma middle-T competent for transformation. <i>Nature</i> , 1985, 315, 239-242.	13.7	845
5	Common elements in growth factor stimulation and oncogenic transformation: 85 kd phosphoprotein and phosphatidylinositol kinase activity. <i>Cell</i> , 1987, 50, 1021-1029.	13.5	708
6	Essential roles of PI(3)K-p110 β in cell growth, metabolism and tumorigenesis. <i>Nature</i> , 2008, 454, 776-779.	13.7	654
7	Polyoma small and middle T antigens and SV40 small t antigen form stable complexes with protein phosphatase 2A. <i>Cell</i> , 1990, 60, 167-176.	13.5	628
8	KRAS and YAP1 Converge to Regulate EMT and Tumor Survival. <i>Cell</i> , 2014, 158, 171-184.	13.5	608
9	Tyrosine phosphorylation regulates the biochemical and biological properties of pp60c-src. <i>Cell</i> , 1987, 49, 75-82.	13.5	582
10	Integrative Genomic Approaches Identify IKBKE as a Breast Cancer Oncogene. <i>Cell</i> , 2007, 129, 1065-1079.	13.5	538
11	Transformation of Chicken Cells by the Gene Encoding the Catalytic Subunit of PI 3-Kinase. <i>Science</i> , 1997, 276, 1848-1850.	6.0	398
12	PARP Inhibition Elicits STING-Dependent Antitumor Immunity in Brca1-Deficient Ovarian Cancer. <i>Cell Reports</i> , 2018, 25, 2972-2980.e5.	2.9	381
13	The colony stimulating factor-1 receptor associates with and activates phosphatidylinositol-3 kinase. <i>Nature</i> , 1989, 342, 699-702.	13.7	354
14	The oncogenic properties of mutant p110 β and p110 δ phosphatidylinositol 3-kinases in human mammary epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18443-18448.	3.3	313
15	Human cdc2 protein kinase is a major cell-cycle regulated tyrosine kinase substrate. <i>Nature</i> , 1988, 336, 738-744.	13.7	294
16	The metabolic function of cyclin D3-CDK6 kinase in cancer cell survival. <i>Nature</i> , 2017, 546, 426-430.	13.7	276
17	A signal chain of events. <i>Nature</i> , 1992, 360, 534-535.	13.7	208
18	The p110 β isoform of PI3K is essential for proper growth factor signaling and oncogenic transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16296-16300.	3.3	201

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19	TMTpro-18plex: The Expanded and Complete Set of TMTpro Reagents for Sample Multiplexing. <i>Journal of Proteome Research</i> , 2021, 20, 2964-2972.	1.8	158
20	Functional Characterization of an Isoform-Selective Inhibitor of PI3K-p110 β as a Potential Anticancer Agent. <i>Cancer Discovery</i> , 2012, 2, 425-433.	7.7	152
21	The Identification of Zebrafish Mutants Showing Alterations in Senescence-Associated Biomarkers. <i>PLoS Genetics</i> , 2008, 4, e1000152.	1.5	132
22	The emerging role of PI3K/AKT-mediated epigenetic regulation in cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2017, 1868, 123-131.	3.3	117
23	The p110 α and p110 β isoforms of PI3K play divergent roles in mammary gland development and tumorigenesis. <i>Genes and Development</i> , 2012, 26, 1573-1586.	2.7	116
24	Should individual PI3 kinase isoforms be targeted in cancer?. <i>Current Opinion in Cell Biology</i> , 2009, 21, 199-208.	2.6	106
25	Combination inhibition of PI3K and mTORC1 yields durable remissions in mice bearing orthotopic patient-derived xenografts of HER2-positive breast cancer brain metastases. <i>Nature Medicine</i> , 2016, 22, 723-726.	15.2	105
26	Buparlisib in Patients With Recurrent Glioblastoma Harboring Phosphatidylinositol 3-Kinase Pathway Activation: An Open-Label, Multicenter, Multi-Arm, Phase II Trial. <i>Journal of Clinical Oncology</i> , 2019, 37, 741-750.	0.8	103
27	Delivery strategies and potential targets for siRNA in major cancer types. <i>Advanced Drug Delivery Reviews</i> , 2016, 104, 2-15.	6.6	100
28	Protein phosphatase 2A regulates life and death decisions via Akt in a context-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19011-19016.	3.3	94
29	PI3K/AKT Signaling Regulates H3K4 Methylation in Breast Cancer. <i>Cell Reports</i> , 2016, 15, 2692-2704.	2.9	92
30	Association of Polyomavirus Middle Tumor Antigen with Phospholipase C- β 1. <i>Journal of Biological Chemistry</i> , 1995, 270, 12331-12334.	1.6	87
31	Combined inhibition of PI3K and PARP is effective in the treatment of ovarian cancer cells with wild-type PIK3CA genes. <i>Gynecologic Oncology</i> , 2016, 142, 548-556.	0.6	80
32	PI3K-p110 α mediates the oncogenic activity induced by loss of the novel tumor suppressor PI3K-p85 β . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7095-7100.	3.3	75
33	STING agonism reprograms tumor-associated macrophages and overcomes resistance to PARP inhibition in BRCA1-deficient models of breast cancer. <i>Nature Communications</i> , 2022, 13, .	5.8	68
34	PI3K isoform dependence of PTEN-deficient tumors can be altered by the genetic context. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6395-6400.	3.3	66
35	Effective use of PI3K inhibitor BKM120 and PARP inhibitor Olaparib to treat PIK3CA mutant ovarian cancer. <i>Oncotarget</i> , 2016, 7, 13153-13166.	0.8	66
36	A constitutively activated form of the p110 β isoform of PI3-kinase induces prostatic intraepithelial neoplasia in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11002-11007.	3.3	57

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37	Hematopoiesis and RAS-driven myeloid leukemia differentially require PI3K isoform p110 β . <i>Journal of Clinical Investigation</i> , 2014, 124, 1794-1809.	3.9	48
38	A Non-Canonical Function of Zebrafish Telomerase Reverse Transcriptase Is Required for Developmental Hematopoiesis. <i>PLoS ONE</i> , 2008, 3, e3364.	1.1	47
39	Opposing Effects of Androgen Deprivation and Targeted Therapy on Prostate Cancer Prevention. <i>Cancer Discovery</i> , 2013, 3, 44-51.	7.7	47
40	Lessons from polyoma middle T antigen on signaling and transformation: A DNA tumor virus contribution to the war on cancer. <i>Virology</i> , 2009, 384, 304-316.	1.1	45
41	A PI3K p110 β -Rac signalling loop mediates Pten-loss-induced perturbation of haematopoiesis and leukaemogenesis. <i>Nature Communications</i> , 2015, 6, 8501.	5.8	44
42	Inhibition of the transcriptional kinase CDK7 overcomes therapeutic resistance in HER2-positive breast cancers. <i>Oncogene</i> , 2020, 39, 50-63.	2.6	43
43	Serine 257 Phosphorylation Regulates Association of Polyomavirus Middle T Antigen with 14-3-3 Proteins. <i>Journal of Virology</i> , 1998, 72, 558-563.	1.5	38
44	Statin-mediated inhibition of RAS prenylation activates ER stress to enhance the immunogenicity of KRAS mutant cancer. , 2021, 9, e002474.		34
45	CRKL Mediates p110 β -Dependent PI3K Signaling in PTEN-Deficient Cancer Cells. <i>Cell Reports</i> , 2017, 20, 549-557.	2.9	33
46	Tyrosine receptor kinase B is a drug target in astrocytomas. <i>Neuro-Oncology</i> , 2017, 19, 22-30.	0.6	32
47	PI3K alpha and delta promote hematopoietic stem cell activation. <i>JCI Insight</i> , 2019, 4, .	2.3	31
48	The p110 β Isoform of Phosphatidylinositol 3-Kinase Is Essential for Polyomavirus Middle T Antigen-Mediated Transformation. <i>Journal of Virology</i> , 2007, 81, 7069-7076.	1.5	28
49	Targeted profiling of RNA translation reveals mTOR-4EBP1/2-independent translation regulation of mRNAs encoding ribosomal proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9325-E9332.	3.3	28
50	Combination of KRAS gene silencing and PI3K inhibition for ovarian cancer treatment. <i>Journal of Controlled Release</i> , 2020, 318, 98-108.	4.8	27
51	Rac1-mediated membrane raft localization of PI3K/p110 β is required for its activation by GPCRs or PTEN loss. <i>ELife</i> , 2016, 5, .	2.8	25
52	Polyomavirus Small t Antigen Interacts with Yes-Associated Protein To Regulate Cell Survival and Differentiation. <i>Journal of Virology</i> , 2014, 88, 12055-12064.	1.5	24
53	Comparisons between Murine Polyomavirus and Simian Virus 40 Show Significant Differences in Small T Antigen Function. <i>Journal of Virology</i> , 2011, 85, 10649-10658.	1.5	22
54	Epigenetic regulation of RTK signaling. <i>Journal of Molecular Medicine</i> , 2017, 95, 791-798.	1.7	19

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55	Papillomavirus E7 Oncoproteins Share Functions with Polyomavirus Small T Antigens. <i>Journal of Virology</i> , 2015, 89, 2857-2865.	1.5	17
56	NTRK2 activation cooperates with PTEN deficiency in T-ALL through activation of both the PI3K/AKT and JAK/STAT3 pathways. <i>Cell Discovery</i> , 2016, 2, 16030.	3.1	17
57	The Mechanisms Underlying PTEN Loss in Human Tumors Suggest Potential Therapeutic Opportunities. <i>Biomolecules</i> , 2019, 9, 713.	1.8	17
58	The activation loop in Lck regulates oncogenic potential by inhibiting basal kinase activity and restricting substrate specificity. <i>Oncogene</i> , 2000, 19, 3961-3970.	2.6	16
59	Transformation by Polyomavirus Middle T Antigen Involves a Unique Bimodal Interaction with the Hippo Effector YAP. <i>Journal of Virology</i> , 2016, 90, 7032-7045.	1.5	13
60	Divergent Roles of PI3K Isoforms in PTEN-Deficient Glioblastomas. <i>Cell Reports</i> , 2020, 32, 108196.	2.9	13
61	Genetic ablation of <i>FASN</i> attenuates the invasive potential of prostate cancer driven by <i>Pten</i> loss. <i>Journal of Pathology</i> , 2021, 253, 292-303.	2.1	13
62	A Conditional Dependency on MELK for the Proliferation of Triple-Negative Breast Cancer Cells. <i>IScience</i> , 2018, 9, 149-160.	1.9	12
63	PIK3CA C-terminal frameshift mutations are novel oncogenic events that sensitize tumors to PI3K inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24427-24433.	3.3	12
64	Isoform-Selective Phosphatidylinositol 3-Kinase Inhibition in Cancer. <i>Journal of Clinical Oncology</i> , 2018, 36, 1339-1342.	0.8	11
65	Oridonin inhibits aberrant AKT activation in breast cancer. <i>Oncotarget</i> , 2018, 9, 23878-23889.	0.8	11
66	The Phosphatidylinositol 3-Kinase (PI3K) Isoform Dependence of Tumor Formation Is Determined by the Genetic Mode of PI3K Pathway Activation Rather than by Tissue Type. <i>Journal of Virology</i> , 2014, 88, 10673-10679.	1.5	10
67	RNAi-Based Approaches for Pancreatic Cancer Therapy. <i>Pharmaceutics</i> , 2021, 13, 1638.	2.0	10
68	A new class of mutations reveals a novel function for the original phosphatidylinositol 3-kinase binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9434-9439.	3.3	8
69	Multiplex Immunofluorescence in Formalin-Fixed Paraffin-Embedded Tumor Tissue to Identify Single-Cell Level PI3K Pathway Activation. <i>Clinical Cancer Research</i> , 2020, 26, 5903-5913.	3.2	8
70	Polyomavirus Small T Antigen Induces Apoptosis in Mammalian Cells through the UNC5B Pathway in a PP2A-Dependent Manner. <i>Journal of Virology</i> , 2020, 94, .	1.5	8
71	Mapping of polyomavirus middle T domain that is responsible for AP-1 activation. <i>Oncogene</i> , 1998, 16, 2975-2982.	2.6	7
72	Blocking PI3K p110 ^β Attenuates Development of PTEN-Deficient Castration-Resistant Prostate Cancer. <i>Molecular Cancer Research</i> , 2022, 20, 673-685.	1.5	6

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73	Transgenic Expression of Polyomavirus Middle T Antigen in the Mouse Prostate Gives Rise to Carcinoma. <i>Journal of Virology</i> , 2011, 85, 5581-5592.	1.5	5
74	Multi-targeting siRNA nanoparticles for simultaneous inhibition of PI3K and Rac1 in PTEN-deficient prostate cancer. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 99, 196-203.	2.9	5
75	The role of the PIK3CA gene in the development and aging of the brain. <i>Scientific Reports</i> , 2021, 11, 291.	1.6	3
76	A strategy for screening anti-tumor drugs utilizing oncogenes encoded in retroviral vectors. , 1996, 66, 753-759.		2
77	The Mediator captures CDK7, an attractive transcriptional target in cancer. <i>Cancer Cell</i> , 2021, 39, 1184-1186.	7.7	2
78	PCTAIRE1 promotes mitotic progression and resistance against antimitotic and apoptotic signals. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	2
79	The p110 α Catalytic Isoform of PI3 Kinase Is Important for Erythropoiesis, but Has a Minimal Role in Hematopoietic Stem Cell Self-Renewal.. <i>Blood</i> , 2009, 114, 3620-3620.	0.6	0
80	PI3Kinase Alpha and Delta Promote Hematopoietic Stem Activation Under Stress. <i>Blood</i> , 2018, 132, 329-329.	0.6	0