

# Vuk Stambolic

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75  
papers

8,933  
citations

40  
h-index

86  
g-index

86  
ext. papers

9,705  
ext. citations

9.3  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
75	Negative regulation of PKB/Akt-dependent cell survival by the tumor suppressor PTEN. <i>Cell</i> , <b>1998</b> , 95, 29-39	56.2	2072
74	Lithium inhibits glycogen synthase kinase-3 activity and mimics wingless signalling in intact cells. <i>Current Biology</i> , <b>1996</b> , 6, 1664-8	6.3	1150
73	High cancer susceptibility and embryonic lethality associated with mutation of the PTEN tumor suppressor gene in mice. <i>Current Biology</i> , <b>1998</b> , 8, 1169-78	6.3	704
72	Deletion of Pten in mouse brain causes seizures, ataxia and defects in soma size resembling Lhermitte-Duclos disease. <i>Nature Genetics</i> , <b>2001</b> , 29, 396-403	36.3	400
71	Nuclear PTEN controls DNA repair and sensitivity to genotoxic stress. <i>Science</i> , <b>2013</b> , 341, 395-9	33.3	293
70	Understanding the benefit of metformin use in cancer treatment. <i>BMC Medicine</i> , <b>2011</b> , 9, 33	11.4	256
69	Restricted accumulation of phosphatidylinositol 3-kinase products in a plasmalemmal subdomain during Fc gamma receptor-mediated phagocytosis. <i>Journal of Cell Biology</i> , <b>2001</b> , 153, 1369-80	7.3	244
68	Metformin in cancer: translational challenges. <i>Journal of Molecular Endocrinology</i> , <b>2012</b> , 48, R31-43	4.5	243
67	Metformin in early breast cancer: a prospective window of opportunity neoadjuvant study. <i>Breast Cancer Research and Treatment</i> , <b>2012</b> , 135, 821-30	4.4	188
66	Negative regulation of myofibroblast differentiation by PTEN (Phosphatase and Tensin Homolog Deleted on chromosome 10). <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2006</b> , 173, 112-21	10.2	175
65	Metformin in breast cancer: time for action. <i>Journal of Clinical Oncology</i> , <b>2009</b> , 27, 3271-3	2.2	162
64	The conserved PI3'K/PTEN/Akt signaling pathway regulates both cell size and survival in <i>Drosophila</i> . <i>Oncogene</i> , <b>2000</b> , 19, 3971-7	9.2	159
63	Evaluation of metformin in early breast cancer: a modification of the traditional paradigm for clinical testing of anti-cancer agents. <i>Breast Cancer Research and Treatment</i> , <b>2011</b> , 126, 215-20	4.4	154
62	Localization of Rheb to the endomembrane is critical for its signaling function. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 344, 869-80	3.4	152
61	Functional distinctions of protein kinase B/Akt isoforms defined by their influence on cell migration. <i>Trends in Cell Biology</i> , <b>2006</b> , 16, 461-6	18.3	149
60	Early onset of neoplasia in the prostate and skin of mice with tissue-specific deletion of Pten. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 1725-30	11.5	139
59	The ubiquitin ligase Nedd4-1 is dispensable for the regulation of PTEN stability and localization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 8585-90	11.5	137

58	Impact of the obesity epidemic on cancer. <i>Annual Review of Medicine</i> , <b>2015</b> , 66, 281-96	17.4	128
57	Genetic analysis of protein kinase B (AKT) in <i>Drosophila</i> . <i>Current Biology</i> , <b>1998</b> , 8, 599-602	6.3	120
56	Prostaglandin E(2) inhibits fibroblast migration by E-prostanoid 2 receptor-mediated increase in PTEN activity. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2005</b> , 32, 135-41	5.7	114
55	Modulation of cellular apoptotic potential: contributions to oncogenesis. <i>Oncogene</i> , <b>1999</b> , 18, 6094-103	9.2	104
54	Effect of metformin vs placebo on and metabolic factors in NCIC CTG MA.32. <i>Journal of the National Cancer Institute</i> , <b>2015</b> , 107,	9.7	88
53	Estrogen controls the survival of BRCA1-deficient cells via a PI3K-NRF2-regulated pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 4472-7	11.5	86
52	Nek family of kinases in cell cycle, checkpoint control and cancer. <i>Cell Division</i> , <b>2011</b> , 6, 18	2.8	80
51	Chk2 regulates irradiation-induced, p53-mediated apoptosis in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 11305-10	11.5	80
50	Akt is activated in response to an apoptotic signal. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 30461-6	5.4	79
49	Metformin Pharmacokinetics in Mouse Tumors: Implications for Human Therapy. <i>Cell Metabolism</i> , <b>2016</b> , 23, 567-8	24.6	79
48	Prkar1a is an osteosarcoma tumor suppressor that defines a molecular subclass in mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 3310-25	15.9	78
47	Changes in insulin receptor signaling underlie neoadjuvant metformin administration in breast cancer: a prospective window of opportunity neoadjuvant study. <i>Breast Cancer Research</i> , <b>2015</b> , 17, 32	8.3	76
46	PTEN function in mammalian cell size regulation. <i>Current Opinion in Neurobiology</i> , <b>2002</b> , 12, 516-22	7.6	74
45	Regulation of the protein kinase activity of Shaggy(Zeste-white3) by components of the wingless pathway in <i>Drosophila</i> cells and embryos. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 21790-6	5.4	69
44	Evidence for biological effects of metformin in operable breast cancer: biomarker analysis in a pre-operative window of opportunity randomized trial. <i>Breast Cancer Research and Treatment</i> , <b>2015</b> , 150, 149-55	4.4	63
43	Membrane-dependent modulation of the mTOR activator Rheb: NMR observations of a GTPase tethered to a lipid-bilayer nanodisc. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3367-70	16.4	56
42	Association of Obesity-Related Metabolic Disruptions With Cancer Risk and Outcome. <i>Journal of Clinical Oncology</i> , <b>2016</b> , 34, 4249-4255	2.2	55
41	Obesity and insulin resistance in breast cancer--chemoprevention strategies with a focus on metformin. <i>Breast</i> , <b>2011</b> , 20 Suppl 3, S31-5	3.6	53

40	mTORC1 and CK2 coordinate ternary and eIF4F complex assembly. <i>Nature Communications</i> , <b>2016</b> , 7, 11127-4	7.4	50
39	Characterization of the intrinsic and TSC2-GAP-regulated GTPase activity of Rheb by real-time NMR. <i>Science Signaling</i> , <b>2009</b> , 2, ra3	8.8	46
38	A unified nomenclature and amino acid numbering for human PTEN. <i>Science Signaling</i> , <b>2014</b> , 7, pe15	8.8	45
37	Nek10 mediates G2/M cell cycle arrest and MEK autoactivation in response to UV irradiation. <i>Molecular and Cellular Biology</i> , <b>2011</b> , 31, 30-42	4.8	45
36	Senescence, Necrosis, and Apoptosis Govern Circulating Cell-free DNA Release Kinetics. <i>Cell Reports</i> , <b>2020</b> , 31, 107830	10.6	40
35	A phase II randomized clinical trial of the effect of metformin versus placebo on progression-free survival in women with metastatic breast cancer receiving standard chemotherapy. <i>Breast</i> , <b>2019</b> , 48, 17-23	3.6	38
34	Utility of metformin in breast cancer treatment, is neoangiogenesis a risk factor?. <i>Breast Cancer Research and Treatment</i> , <b>2009</b> , 114, 387-9	4.4	35
33	Real-time NMR study of three small GTPases reveals that fluorescent 2'(3')-O-(N-methylanthraniloyl)-tagged nucleotides alter hydrolysis and exchange kinetics. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 5132-6	5.4	34
32	βAmyloid Precursor Protein Intracellular Domain Controls Mitochondrial Function by Modulating Phosphatase and Tensin Homolog-Induced Kinase 1 Transcription in Cells and in Alzheimer Mice Models. <i>Biological Psychiatry</i> , <b>2018</b> , 83, 416-427	7.9	32
31	Real-time NMR study of guanine nucleotide exchange and activation of RhoA by PDZ-RhoGEF. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 5137-45	5.4	30
30	Probing the GTPase cycle with real-time NMR: GAP and GEF activities in cell extracts. <i>Methods</i> , <b>2012</b> , 57, 473-85	4.6	28
29	An autoinhibited noncanonical mechanism of GTP hydrolysis by Rheb maintains mTORC1 homeostasis. <i>Structure</i> , <b>2012</b> , 20, 1528-39	5.2	25
28	Regulation of adipocyte differentiation by distinct subcellular pools of protein kinase B (PKB/Akt). <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 15038-15047	5.4	21
27	Comprehensive substrate specificity profiling of the human Nek kinome reveals unexpected signaling outputs. <i>ELife</i> , <b>2019</b> , 8,	8.9	19
26	grb2 heterozygosity rescues embryonic lethality but not tumorigenesis in pten+/- mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 15358-63	11.5	15
25	The Rho-guanine nucleotide exchange factor PDZ-RhoGEF governs susceptibility to diet-induced obesity and type 2 diabetes. <i>ELife</i> , <b>2015</b> , 4,	8.9	14
24	PTEN Nuclear Functions. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2020</b> , 10,	5.4	14
23	Phosphorylated STAT5 regulates p53 expression via BRCA1/BARD1-NPM1 and MDM2. <i>Cell Death and Disease</i> , <b>2016</b> , 7, e2560	9.8	13

22	Structure-guided mutation of the conserved G3-box glycine in Rheb generates a constitutively activated regulator of mammalian target of rapamycin (mTOR). <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 12195-201	5.4	11
21	The Effect of Metformin vs Placebo on Sex Hormones in Canadian Cancer Trials Group MA.32. <i>Journal of the National Cancer Institute</i> , <b>2021</b> , 113, 192-198	9.7	10
20	Effects of metformin versus placebo on vitamin B12 metabolism in non-diabetic breast cancer patients in CCTG MA.32. <i>Breast Cancer Research and Treatment</i> , <b>2017</b> , 164, 371-378	4.4	8
19	Characterization of nuclear PTEN and its post translational modifications. <i>Methods</i> , <b>2015</b> , 77-78, 104-11	4.6	8
18	NEK10 tyrosine phosphorylates p53 and controls its transcriptional activity. <i>Oncogene</i> , <b>2020</b> , 39, 5252-5266	5.6	7
17	Effect of metformin versus placebo on metabolic factors in the MA.32 randomized breast cancer trial. <i>Npj Breast Cancer</i> , <b>2021</b> , 7, 74	7.8	7
16	Association of Metabolic, Inflammatory, and Tumor Markers With Circulating Tumor Cells in Metastatic Breast Cancer. <i>JNCI Cancer Spectrum</i> , <b>2018</b> , 2, pky028	4.6	6
15	Toronto Workshop on Late Recurrence in Estrogen Receptor-Positive Breast Cancer: Part 1: Late Recurrence: Current Understanding, Clinical Considerations. <i>JNCI Cancer Spectrum</i> , <b>2019</b> , 3, pkz050	4.6	6
14	Effect of Metformin vs Placebo on Invasive Disease-Free Survival in Patients With Breast Cancer. <i>JAMA - Journal of the American Medical Association</i> , <b>2022</b> , 327, 1963	27.4	5
13	Toronto Workshop on Late Recurrence in Estrogen Receptor-Positive Breast Cancer: Part 2: Approaches to Predict and Identify Late Recurrence, Research Directions. <i>JNCI Cancer Spectrum</i> , <b>2019</b> , 3, pkz049	4.6	4
12	Cancer: Precise control of localized signals. <i>Nature</i> , <b>2015</b> , 522, 38-40	50.4	4
11	The Rho Guanine Nucleotide Exchange Factor DRhoGEF2 Is a Genetic Modifier of the PI3K Pathway in Drosophila. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152259	3.7	3
10	Concerted roles of PTEN and ATM in controlling hematopoietic stem cell fitness and dormancy. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	2
9	Fundamental Pathways in Breast Cancer 1: Signaling from the Membrane <b>2017</b> , 3-12		1
8	Reply to A. Vazquez-Martin et al. <i>Journal of Clinical Oncology</i> , <b>2009</b> , 27, e210-e210	2.2	1
7	Metformin in early breast cancer (BC): A prospective, open-label, neoadjuvant window of opportunity study. <i>Journal of Clinical Oncology</i> , <b>2012</b> , 30, 1019-1019	2.2	1
6	Structure and Function of the mTOR Activator Rheb <b>2014</b> , 281-324		1
5	PTEN at 18: Still Growing. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1388, 13-9	1.4	1

4	Cancer Antigen 15-3/Mucin 1 Levels in CCTG MA.32: A Breast Cancer Randomized Trial of Metformin vs Placebo. <i>JNCI Cancer Spectrum</i> , <b>2021</b> , 5, pkab066	4.6	1
3	Abstract GS1-08: CCTGMA.32, a phase III randomized double-blind placebo controlled adjuvant trial of metformin (MET) vs placebo (PLAC) in early breast cancer (BC): Results of the primary efficacy analysis (clinical trials.gov NCT01101438). <i>Cancer Research</i> , <b>2022</b> , 82, GS1-08-GS1-08	10.1	1
2	The PTEN and ATM axis controls the G1/S cell cycle checkpoint and tumorigenesis in HER2-positive breast cancer. <i>Cell Death and Differentiation</i> , <b>2021</b> , 28, 3036-3051	12.7	0
1	Reply to R.M. Memmott et al. <i>Journal of Clinical Oncology</i> , <b>2009</b> , 27, e227-e227	2.2	