

Dariusz Rakus

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.

65
papers

1,997
citations

24
h-index

43
g-index

70
ext. papers

2,453
ext. citations

5.1
avg, IF

4.81
L-index

#	Paper	IF	Citations
65	GSK-3 as potential target for therapeutic intervention in cancer. <i>Oncotarget</i> , 2014 , 5, 2881-911	3.3	332
64	Deregulation of the EGFR/PI3K/PTEN/Akt/mTORC1 pathway in breast cancer: possibilities for therapeutic intervention. <i>Oncotarget</i> , 2014 , 5, 4603-50	3.3	179
63	Multi-enzyme digestion FASP and the STotal Protein ApproachSbased absolute quantification of the Escherichia coli proteome. <i>Journal of Proteomics</i> , 2014 , 109, 322-31	3.9	121
62	Effects of resveratrol, curcumin, berberine and other nutraceuticals on aging, cancer development, cancer stem cells and microRNAs. <i>Aging</i> , 2017 , 9, 1477-1536	5.6	112
61	Effects of mutations in Wnt/ β -catenin, hedgehog, Notch and PI3K pathways on GSK-3 activity-Diverse effects on cell growth, metabolism and cancer. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016 , 1863, 2942-2976	4.9	101
60	Roles of GSK-3 and microRNAs on epithelial mesenchymal transition and cancer stem cells. <i>Oncotarget</i> , 2017 , 8, 14221-14250	3.3	68
59	Targeting GSK3 and Associated Signaling Pathways Involved in Cancer. <i>Cells</i> , 2020 , 9,	7.9	67
58	Absolute Proteome Analysis of Colorectal Mucosa, Adenoma, and Cancer Reveals Drastic Changes in Fatty Acid Metabolism and Plasma Membrane Transporters. <i>Journal of Proteome Research</i> , 2015 , 14, 4005-18	5.6	61
57	Targeting GSK3 signaling as a potential therapy of neurodegenerative diseases and aging. <i>Expert Opinion on Therapeutic Targets</i> , 2018 , 22, 833-848	6.4	52
56	Astrocyte-neuron crosstalk regulates the expression and subcellular localization of carbohydrate metabolism enzymes. <i>Glia</i> , 2015 , 63, 328-40	9	45
55	Nuclear localization of aldolase A correlates with cell proliferation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 2812-2822	4.9	38
54	Kinetic properties of pig (<i>Sus scrofa domestica</i>) and bovine (<i>Bos taurus</i>) D-fructose-1,6-bisphosphate 1-phosphohydrolase (F1,6BPase): liver-like isozymes in mammalian lung tissue. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000 , 127, 123-34	2.3	38
53	Metformin influences drug sensitivity in pancreatic cancer cells. <i>Advances in Biological Regulation</i> , 2018 , 68, 13-30	6.2	34
52	Regulation of GSK-3 activity by curcumin, berberine and resveratrol: Potential effects on multiple diseases. <i>Advances in Biological Regulation</i> , 2017 , 65, 77-88	6.2	31
51	Aging-associated changes in hippocampal glycogen metabolism in mice. Evidence for and against astrocyte-to-neuron lactate shuttle. <i>Glia</i> , 2018 , 66, 1481-1495	9	30
50	Critical Roles of EGFR Family Members in Breast Cancer and Breast Cancer Stem Cells: Targets for Therapy. <i>Current Pharmaceutical Design</i> , 2016 , 22, 2358-88	3.3	30
49	Integrating Proteomics and Enzyme Kinetics Reveals Tissue-Specific Types of the Glycolytic and Gluconeogenic Pathways. <i>Journal of Proteome Research</i> , 2015 , 14, 3263-73	5.6	29

48	Absolute quantitative profiling of the key metabolic pathways in slow and fast skeletal muscle. <i>Journal of Proteome Research</i> , 2015 , 14, 1400-11	5.6	29
47	Roles of TP53 in determining therapeutic sensitivity, growth, cellular senescence, invasion and metastasis. <i>Advances in Biological Regulation</i> , 2017 , 63, 32-48	6.2	28
46	Muscle aldolase decreases muscle FBPase sensitivity toward AMP inhibition. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 275, 611-6	3.4	28
45	Neuron-astrocyte interaction enhance GABAergic synaptic transmission in a manner dependent on key metabolic enzymes. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 120	6.1	27
44	Novel roles of androgen receptor, epidermal growth factor receptor, TP53, regulatory RNAs, NF-kappa-B, chromosomal translocations, neutrophil associated gelatinase, and matrix metalloproteinase-9 in prostate cancer and prostate cancer stem cells. <i>Advances in Biological Regulation</i> , 2016 , 60, 64-87	6.2	26
43	The effect of calcium ions on subcellular localization of aldolase-FBPase complex in skeletal muscle. <i>FEBS Letters</i> , 2005 , 579, 1607-12	3.8	26
42	Abilities of berberine and chemically modified berberines to inhibit proliferation of pancreatic cancer cells. <i>Advances in Biological Regulation</i> , 2019 , 71, 172-182	6.2	25
41	Muscle FBPase binds to cardiomyocyte mitochondria under glycogen synthase kinase-3 inhibition or elevation of cellular Ca ²⁺ level. <i>FEBS Letters</i> , 2012 , 586, 13-9	3.8	24
40	cDNA sequence and kinetic properties of human lung fructose(1, 6)bisphosphatase. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 365, 1-9	4.1	22
39	Effects of berberine, curcumin, resveratrol alone and in combination with chemotherapeutic drugs and signal transduction inhibitors on cancer cells-Power of nutraceuticals. <i>Advances in Biological Regulation</i> , 2018 , 67, 190-211	6.2	21
38	Different sensitivities of mutants and chimeric forms of human muscle and liver fructose-1,6-bisphosphatases towards AMP. <i>Biological Chemistry</i> , 2003 , 384, 51-8	4.5	21
37	Quantitative analysis of the Escherichia coli proteome. <i>Data in Brief</i> , 2014 , 1, 7-11	1.2	20
36	T-to-R switch of muscle fructose-1,6-bisphosphatase involves fundamental changes of secondary and quaternary structure. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016 , 72, 536-50	5.5	20
35	GSK3β Master Player in Depressive Disorder Pathogenesis and Treatment Responsiveness. <i>Cells</i> , 2020 , 9,	7.9	19
34	Cell cycle-dependent expression and subcellular localization of fructose 1,6-bisphosphatase. <i>Histochemistry and Cell Biology</i> , 2012 , 137, 121-36	2.4	19
33	Nuclear targeting of FBPase in HL-1 cells is controlled by beta-1 adrenergic receptor-activated Gs protein signaling cascade. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009 , 1793, 871-7	4.9	19
32	Involvement of cellular metabolism in age-related LTP modifications in rat hippocampal slices. <i>Oncotarget</i> , 2015 , 6, 14065-81	3.3	18
31	Targeting a moonlighting function of aldolase induces apoptosis in cancer cells. <i>Cell Death and Disease</i> , 2019 , 10, 712	9.8	16

30	Abilities of berberine and chemically modified berberines to interact with metformin and inhibit proliferation of pancreatic cancer cells. <i>Advances in Biological Regulation</i> , 2019 , 73, 100633	6.2	15
29	Muscle FBPase is targeted to nucleus by its 203KKKGK207 sequence. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 262-7	4.2	15
28	Absolute protein quantification allows differentiation of cell-specific metabolic routes and functions. <i>Proteomics</i> , 2015 , 15, 1316-25	4.8	14
27	Association of C-terminal region of phosphoglycerate mutase with glycolytic complex regulates energy production in cancer cells. <i>Journal of Cellular Physiology</i> , 2012 , 227, 2613-21	7	13
26	Fructose-1,6-bisphosphatase: From a glucose metabolism enzyme to multifaceted regulator of a cell fate. <i>Advances in Biological Regulation</i> , 2019 , 72, 41-50	6.2	11
25	Neuron-derived transthyretin modulates astrocytic glycolysis in hormone-independent manner. <i>Oncotarget</i> , 2017 , 8, 106625-106638	3.3	11
24	Rabbit muscle fructose-1,6-bisphosphatase is phosphorylated in vivo.. <i>Acta Biochimica Polonica</i> , 2003 , 50, 115-121	2	11
23	Proteomics Unveils Fibroblast-Cardiomyocyte Lactate Shuttle and Hexokinase Paradox in Mouse Muscles. <i>Journal of Proteome Research</i> , 2016 , 15, 2479-90	5.6	10
22	Dimeric and tetrameric forms of muscle fructose-1,6-bisphosphatase play different roles in the cell. <i>Oncotarget</i> , 2017 , 8, 115420-115433	3.3	10
21	Changes in quaternary structure of muscle fructose-1,6-bisphosphatase regulate affinity of the enzyme to mitochondria. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 48, 55-9	5.6	9
20	Destabilization of fructose 1,6-bisphosphatase-Z-line interactions is a mechanism of glyconeogenesis down-regulation in vivo. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 622-8	4.9	9
19	The mechanism of calcium-induced inhibition of muscle fructose 1,6-bisphosphatase and destabilization of glyconeogenic complex. <i>PLoS ONE</i> , 2013 , 8, e76669	3.7	9
18	The Reverse Warburg Effect is Associated with Fbp2-Dependent Hif1 α Regulation in Cancer Cells Stimulated by Fibroblasts. <i>Cells</i> , 2020 , 9,	7.9	8
17	Global quantitative TPA-based proteomics of mouse brain structures reveals significant alterations in expression of proteins involved in neuronal plasticity during aging. <i>Aging</i> , 2018 , 10, 1682-1697	5.6	8
16	Effects of the MDM-2 inhibitor Nutlin-3a on PDAC cells containing and lacking WT-TP53 on sensitivity to chemotherapy, signal transduction inhibitors and nutraceuticals. <i>Advances in Biological Regulation</i> , 2019 , 72, 22-40	6.2	7
15	Cell-to-cell lactate shuttle operates in heart and is important in age-related heart failure. <i>Aging</i> , 2020 , 12, 3388-3406	5.6	7
14	Insulin/IGF1-PI3K-dependent nucleolar localization of a glycolytic enzyme--phosphoglycerate mutase 2, is necessary for proper structure of nucleolus and RNA synthesis. <i>Oncotarget</i> , 2015 , 6, 17237-50	3.3	7
13	Abilities of β -Estradiol to interact with chemotherapeutic drugs, signal transduction inhibitors and nutraceuticals and alter the proliferation of pancreatic cancer cells. <i>Advances in Biological Regulation</i> , 2020 , 75, 100672	6.2	7

12	GSK-3 β Can Regulate the Sensitivity of MIA-PaCa-2 Pancreatic and MCF-7 Breast Cancer Cells to Chemotherapeutic Drugs, Targeted Therapeutics and Nutraceuticals. <i>Cells</i> , 2021 , 10,	7.9	7
11	The lack of evidence for correlation of pyruvate kinase M2 expression with tumor grade in non-small cell lung cancer. <i>Anticancer Research</i> , 2014 , 34, 3811-7	2.3	6
10	GSK-3 and miRs: Master regulators of therapeutic sensitivity of cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020 , 1867, 118770	4.9	5
9	A comparative study on the sensitivity of <i>Cyprinus carpio</i> muscle and liver FBPase toward AMP and calcium. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2012 , 162, 51-5 ²⁻³	5 ²⁻³	5
8	GSK3 and miRNA in neural tissue: From brain development to neurodegenerative diseases. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020 , 1867, 118696	4.9	4
7	Fructose 1,6-Bisphosphatase 2 Plays a Crucial Role in the Induction and Maintenance of Long-Term Potentiation. <i>Cells</i> , 2020 , 9,	7.9	3
6	Will Quantitative Proteomics Redefine Some of the Key Concepts in Skeletal Muscle Physiology?. <i>Proteomes</i> , 2016 , 4,	4.6	3
5	Sensitivity of pancreatic cancer cells to chemotherapeutic drugs, signal transduction inhibitors and nutraceuticals can be regulated by WT-TP53. <i>Advances in Biological Regulation</i> , 2021 , 79, 100780	6.2	3
4	A novel remitting leukodystrophy associated with a variant in. <i>Brain Communications</i> , 2021 , 3, fcab036	4.5	1
3	Structural studies of human muscle FBPase. <i>Acta Biochimica Polonica</i> , 2021 , 68, 5-14	2	1
2	Effects of the Mutant TP53 Reactivator APR-246 on Therapeutic Sensitivity of Pancreatic Cancer Cells in the Presence and Absence of WT-TP53.. <i>Cells</i> , 2022 , 11,	7.9	1
1	FBP2 β A New Player in Regulation of Motility of Mitochondria and Stability of Microtubules in Cardiomyocytes. <i>Cells</i> , 2022 , 11, 1710	7.9	