Dariusz Rakus

List of Publications by Year in Descending Order

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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	Effects of the Mutant TP53 Reactivator APR-246 on Therapeutic Sensitivity of Pancreatic Cancer Cells in the Presence and Absence of WT-TP53.. *Cells*, **2022**, 11,	7.9	1
64	FBP2A New Player in Regulation of Motility of Mitochondria and Stability of Microtubules in Cardiomyocytes. *Cells*, **2022**, 11, 1710	7.9	
63	A novel remitting leukodystrophy associated with a variant in. *Brain Communications*, **2021**, 3, fcab036	4.5	1
62	GSK-3Can Regulate the Sensitivity of MIA-PaCa-2 Pancreatic and MCF-7 Breast Cancer Cells to Chemotherapeutic Drugs, Targeted Therapeutics and Nutraceuticals. *Cells*, **2021**, 10,	7.9	7
61	Structural studies of human muscle FBPase. *Acta Biochimica Polonica*, **2021**, 68, 5-14	2	1
60	Sensitivity of pancreatic cancer cells to chemotherapeutic drugs, signal transduction inhibitors and nutraceuticals can be regulated by WT-TP53. *Advances in Biological Regulation*, **2021**, 79, 100780	6.2	3
59	Targeting GSK3 and Associated Signaling Pathways Involved in Cancer. *Cells*, **2020**, 9,	7.9	67
58	GSK-3 and miRs: Master regulators of therapeutic sensitivity of cancer cells. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2020**, 1867, 118770	4.9	5
57	Fructose 1,6-Bisphosphatase 2 Plays a Crucial Role in the Induction and Maintenance of Long-Term Potentiation. *Cells*, **2020**, 9,	7.9	3
56	GSK3A Master Player in Depressive Disorder Pathogenesis and Treatment Responsiveness. *Cells*, **2020**, 9,	7.9	19
55	GSK3 and miRNA in neural tissue: From brain development to neurodegenerative diseases. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2020**, 1867, 118696	4.9	4
54	The Reverse Warburg Effect is Associated with Fbp2-Dependent Hif1Regulation in Cancer Cells Stimulated by Fibroblasts. *Cells*, **2020**, 9,	7.9	8
53	Cell-to-cell lactate shuttle operates in heart and is important in age-related heart failure. *Aging*, **2020**, 12, 3388-3406	5.6	7
52	Abilities of Estradiol to interact with chemotherapeutic drugs, signal transduction inhibitors and nutraceuticals and alter the proliferation of pancreatic cancer cells. *Advances in Biological Regulation*, **2020**, 75, 100672	6.2	7
51	Targeting a moonlighting function of aldolase induces apoptosis in cancer cells. *Cell Death and Disease*, **2019**, 10, 712	9.8	16
50	Abilities of berberine and chemically modified berberines to interact with metformin and inhibit proliferation of pancreatic cancer cells. *Advances in Biological Regulation*, **2019**, 73, 100633	6.2	15
49	Fructose-1,6-bisphosphatase: From a glucose metabolism enzyme to multifaceted regulator of a cell fate. *Advances in Biological Regulation*, **2019**, 72, 41-50	6.2	11

48	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. *Advances in Biological Regulation*, **2019**, 72, 22-40	6.2	7
47	Abilities of berberine and chemically modified berberines to inhibit proliferation of pancreatic cancer cells. *Advances in Biological Regulation*, **2019**, 71, 172-182	6.2	25
46	Metformin influences drug sensitivity in pancreatic cancer cells. *Advances in Biological Regulation*, **2018**, 68, 13-30	6.2	34
45	Aging-associated changes in hippocampal glycogen metabolism in mice. Evidence for and against astrocyte-to-neuron lactate shuttle. *Glia*, **2018**, 66, 1481-1495	9	30
44	Effects of berberine, curcumin, resveratrol alone and in combination with chemotherapeutic drugs and signal transduction inhibitors on cancer cells-Power of nutraceuticals. *Advances in Biological Regulation*, **2018**, 67, 190-211	6.2	21
43	Global quantitative TPA-based proteomics of mouse brain structures reveals significant alterations in expression of proteins involved in neuronal plasticity during aging. *Aging*, **2018**, 10, 1682-1697	5.6	8
42	Targeting GSK3 signaling as a potential therapy of neurodegenerative diseases and aging. *Expert Opinion on Therapeutic Targets*, **2018**, 22, 833-848	6.4	52
41	Regulation of GSK-3 activity by curcumin, berberine and resveratrol: Potential effects on multiple diseases. *Advances in Biological Regulation*, **2017**, 65, 77-88	6.2	31
40	Effects of resveratrol, curcumin, berberine and other nutraceuticals on aging, cancer development, cancer stem cells and microRNAs. *Aging*, **2017**, 9, 1477-1536	5.6	112
39	Roles of GSK-3 and microRNAs on epithelial mesenchymal transition and cancer stem cells. *Oncotarget*, **2017**, 8, 14221-14250	3.3	68
38	Neuron-derived transthyretin modulates astrocytic glycolysis in hormone-independent manner. *Oncotarget*, **2017**, 8, 106625-106638	3.3	11
37	Roles of TP53 in determining therapeutic sensitivity, growth, cellular senescence, invasion and metastasis. *Advances in Biological Regulation*, **2017**, 63, 32-48	6.2	28
36	Dimeric and tetrameric forms of muscle fructose-1,6-bisphosphatase play different roles in the cell. *Oncotarget*, **2017**, 8, 115420-115433	3.3	10
35	Proteomics Unveils Fibroblast-Cardiomyocyte Lactate Shuttle and Hexokinase Paradox in Mouse Muscles. *Journal of Proteome Research*, **2016**, 15, 2479-90	5.6	10
34	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. *Advances in Biological Regulation*, **2016**, 60, 64-87	6.2	26
33	Critical Roles of EGFR Family Members in Breast Cancer and Breast Cancer Stem Cells: Targets for Therapy. *Current Pharmaceutical Design*, **2016**, 22, 2358-88	3.3	30
32	Will Quantitative Proteomics Redefine Some of the Key Concepts in Skeletal Muscle Physiology?. *Proteomes*, **2016**, 4,	4.6	3
31	Effects of mutations in Wnt/Ecatenin, hedgehog, Notch and PI3K pathways on GSK-3 activity-Diverse effects on cell growth, metabolism and cancer. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2016**, 1863, 2942-2976	4.9	101

30	T-to-R switch of muscle fructose-1,6-bisphosphatase involves fundamental changes of secondary and quaternary structure. *Acta Crystallographica Section D: Structural Biology*, **2016**, 72, 536-50	5.5	20
29	Integrating Proteomics and Enzyme Kinetics Reveals Tissue-Specific Types of the Glycolytic and Gluconeogenic Pathways. *Journal of Proteome Research*, **2015**, 14, 3263-73	5.6	29
28	Neuron-astrocyte interaction enhance GABAergic synaptic transmission in a manner dependent on key metabolic enzymes. *Frontiers in Cellular Neuroscience*, **2015**, 9, 120	6.1	27
27	Absolute protein quantification allows differentiation of cell-specific metabolic routes and functions. *Proteomics*, **2015**, 15, 1316-25	4.8	14
26	Absolute Proteome Analysis of Colorectal Mucosa, Adenoma, and Cancer Reveals Drastic Changes in Fatty Acid Metabolism and Plasma Membrane Transporters. *Journal of Proteome Research*, **2015**, 14, 4005-18	5.6	61
25	Astrocyte-neuron crosstalk regulates the expression and subcellular localization of carbohydrate metabolism enzymes. *Glia*, **2015**, 63, 328-40	9	45
24	Absolute quantitative profiling of the key metabolic pathways in slow and fast skeletal muscle. *Journal of Proteome Research*, **2015**, 14, 1400-11	5.6	29
23	Insulin/IGF1-PI3K-dependent nucleolar localization of a glycolytic enzyme--phosphoglycerate mutase 2, is necessary for proper structure of nucleolus and RNA synthesis. *Oncotarget*, **2015**, 6, 17237-50	3.3	7
22	Involvement of cellular metabolism in age-related LTP modifications in rat hippocampal slices. *Oncotarget*, **2015**, 6, 14065-81	3.3	18
21	Changes in quaternary structure of muscle fructose-1,6-bisphosphatase regulate affinity of the enzyme to mitochondria. *International Journal of Biochemistry and Cell Biology*, **2014**, 48, 55-9	5.6	9
20	Quantitative analysis of the Escherichia coli proteome. *Data in Brief*, **2014**, 1, 7-11	1.2	20
19	Multi-enzyme digestion FASP and the 'Total Protein Approach'based absolute quantification of the Escherichia coli proteome. *Journal of Proteomics*, **2014**, 109, 322-31	3.9	121
18	Deregulation of the EGFR/PI3K/PTEN/Akt/mTORC1 pathway in breast cancer: possibilities for therapeutic intervention. *Oncotarget*, **2014**, 5, 4603-50	3.3	179
17	GSK-3 as potential target for therapeutic intervention in cancer. *Oncotarget*, **2014**, 5, 2881-911	3.3	332
16	The lack of evidence for correlation of pyruvate kinase M2 expression with tumor grade in non-small cell lung cancer. *Anticancer Research*, **2014**, 34, 3811-7	2.3	6
15	Nuclear localization of aldolase A correlates with cell proliferation. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2013**, 1833, 2812-2822	4.9	38
14	Destabilization of fructose 1,6-bisphosphatase-Z-line interactions is a mechanism of glyconeogenesis down-regulation in vivo. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2013**, 1833, 622-8	4.9	9
13	The mechanism of calcium-induced inhibition of muscle fructose 1,6-bisphosphatase and destabilization of glyconeogenic complex. *PLoS ONE*, **2013**, 8, e76669	3.7	9

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12	Association of C-terminal region of phosphoglycerate mutase with glycolytic complex regulates energy production in cancer cells. *Journal of Cellular Physiology*, **2012**, 227, 2613-21	7	13
11	Cell cycle-dependent expression and subcellular localization of fructose 1,6-bisphosphatase. *Histochemistry and Cell Biology*, **2012**, 137, 121-36	2.4	19
10	A comparative study on the sensitivity of Cyprinus carpio muscle and liver FBPase toward AMP and calcium. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2012**, 162, 51-5	2.3	5
9	Muscle FBPase binds to cardiomyocyte mitochondria under glycogen synthase kinase-3 inhibition or elevation of cellular Ca2+ level. *FEBS Letters*, **2012**, 586, 13-9	3.8	24
8	Nuclear targeting of FBPase in HL-1 cells is controlled by beta-1 adrenergic receptor-activated Gs protein signaling cascade. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2009**, 1793, 871-7	4.9	19
7	Muscle FBPase is targeted to nucleus by its 203KKKGK207 sequence. *Proteins: Structure, Function and Bioinformatics*, **2009**, 77, 262-7	4.2	15
6	The effect of calcium ions on subcellular localization of aldolase-FBPase complex in skeletal muscle. *FEBS Letters*, **2005**, 579, 1607-12	3.8	26
5	Different sensitivities of mutants and chimeric forms of human muscle and liver fructose-1,6-bisphosphatases towards AMP. *Biological Chemistry*, **2003**, 384, 51-8	4.5	21
4	Rabbit muscle fructose-1,6-bisphosphatase is phosphorylatedin vivo.. *Acta Biochimica Polonica*, **2003**, 50, 115-121	2	11
3	Muscle aldolase decreases muscle FBPase sensitivity toward AMP inhibition. *Biochemical and Biophysical Research Communications*, **2000**, 275, 611-6	3.4	28
2	Kinetic properties of pig (Sus scrofa domestica) and bovine (Bos taurus) D-fructose-1,6-bisphosphate 1-phosphohydrolase (F1,6BPase): liver-like isozymes in mammalian lung tissue. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2000**, 127, 123-34	2.3	38
1	cDNA sequence and kinetic properties of human lung fructose(1, 6)bisphosphatase. *Archives of Biochemistry and Biophysics*, **1999**, 365, 1-9	4.1	22