Dariusz Rakus

List of Publications by Year in descending order

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69 papers	2,784 citations	201674 27 h-index	189892 50 g-index
70 all docs	70 docs citations	70 times ranked	4852 citing authors

#	Article	IF	Citations
1	GSK-3 as potential target for therapeutic intervention in cancer. Oncotarget, 2014, 5, 2881-2911.	1.8	407
2	Deregulation of the EGFR/PI3K/PTEN/Akt/mTORC1 pathway in breast cancer: possibilities for therapeutic intervention. Oncotarget, 2014, 5, 4603-4650.	1.8	231
3	Multi-enzyme digestion FASP and the â€˜Total Protein Approachâ€™-based absolute quantification of the Escherichia coli proteome. Journal of Proteomics, 2014, 109, 322-331.	2.4	179
4	Effects of resveratrol, curcumin, berberine and other nutraceuticals on aging, cancer development, cancer stem cells and microRNAs. Aging, 2017, 9, 1477-1536.	3.1	168
5	Targeting GSK3 and Associated Signaling Pathways Involved in Cancer. Cells, 2020, 9, 1110.	4.1	146
6	Effects of mutations in Wnt/Î²-catenin, hedgehog, Notch and PI3K pathways on GSK-3 activityâ€”Diverse effects on cell growth, metabolism and cancer. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2942-2976.	4.1	137
7	Roles of GSK-3 and microRNAs on epithelial mesenchymal transition and cancer stem cells. Oncotarget, 2017, 8, 14221-14250.	1.8	86
8	Targeting GSK3 signaling as a potential therapy of neurodegenerative diseases and aging. Expert Opinion on Therapeutic Targets, 2018, 22, 833-848.	3.4	83
9	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, 4005-4018.	3.7	74
10	Astrocyteâ€neuron crosstalk regulates the expression and subcellular localization of carbohydrate metabolism enzymes. Glia, 2015, 63, 328-340.	4.9	59
11	Agingâ€associated changes in hippocampal glycogen metabolism in mice. Evidence for and against astrocyteâ€toâ€neuron lactate shuttle. Glia, 2018, 66, 1481-1495.	4.9	51
12	Nuclear localization of aldolase A correlates with cell proliferation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2812-2822.	4.1	47
13	Targeting a moonlighting function of aldolase induces apoptosis in cancer cells. Cell Death and Disease, 2019, 10, 712.	6.3	47
14	Metformin influences drug sensitivity in pancreatic cancer cells. Advances in Biological Regulation, 2018, 68, 13-30.	2.3	45
15	GSK3Î²: A Master Player in Depressive Disorder Pathogenesis and Treatment Responsiveness. Cells, 2020, 9, 727.	4.1	42
16	Kinetic properties of pig (Sus scrofa domestica) and bovine (Bos taurus) D-fructose-1,6-bisphosphate 1-phosphohydrolase (F1,6BPase). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2000, 127, 123-134.	1.6	39
17	Regulation of GSK-3 activity by curcumin, berberine and resveratrol: Potential effects on multiple diseases. Advances in Biological Regulation, 2017, 65, 77-88.	2.3	39
18	Absolute Quantitative Profiling of the Key Metabolic Pathways in Slow and Fast Skeletal Muscle. Journal of Proteome Research, 2015, 14, 1400-1411.	3.7	38

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19	Roles of TP53 in determining therapeutic sensitivity, growth, cellular senescence, invasion and metastasis. Advances in Biological Regulation, 2017, 63, 32-48.	2.3	36
20	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.	2.3	35
21	Quantitative analysis of the Escherichia coli proteome. Data in Brief, 2014, 1, 7-11.	1.0	34
22	Integrating Proteomics and Enzyme Kinetics Reveals Tissue-Specific Types of the Glycolytic and Gluconeogenic Pathways. Journal of Proteome Research, 2015, 14, 3263-3273.	3.7	34
23	Abilities of berberine and chemically modified berberines to inhibit proliferation of pancreatic cancer cells. Advances in Biological Regulation, 2019, 71, 172-182.	2.3	34
24	Critical Roles of EGFR Family Members in Breast Cancer and Breast Cancer Stem Cells: Targets for Therapy. Current Pharmaceutical Design, 2016, 22, 2358-2388.	1.9	34
25	Muscle Aldolase Decreases Muscle FBPase Sensitivity toward AMP Inhibition. Biochemical and Biophysical Research Communications, 2000, 275, 611-616.	2.1	31
26	Neuron-astrocyte interaction enhance GABAergic synaptic transmission in a manner dependent on key metabolic enzymes. Frontiers in Cellular Neuroscience, 2015, 9, 120.	3.7	31
27	The effect of calcium ions on subcellular localization of aldolase-FBPase complex in skeletal muscle. FEBS Letters, 2005, 579, 1607-1612.	2.8	29
28	cDNA Sequence and Kinetic Properties of Human Lung Fructose(1,6)bisphosphatase. Archives of Biochemistry and Biophysics, 1999, 365, 1-9.	3.0	28
29	Muscle FBPase binds to cardiomyocyte mitochondria under glycogen synthase kinaseâ€3 inhibition or elevation of cellular Ca²⁺ level. FEBS Letters, 2012, 586, 13-19.	2.8	27
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, 536-550.	2.3	25
31	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.	2.3	25
32	Involvement of cellular metabolism in age-related LTP modifications in rat hippocampal slices. Oncotarget, 2015, 6, 14065-14081.	1.8	25
33	Different Sensitivities of Mutants and Chimeric Forms of Human Muscle and Liver Fructose-1,6-Bisphosphatases towards AMP. Biological Chemistry, 2003, 384, 51-58.	2.5	23
34	Effects of berberine, curcumin, resveratrol alone and in combination with chemotherapeutic drugs and signal transduction inhibitors on cancer cellsâ€"Power of nutraceuticals. Advances in Biological Regulation, 2018, 67, 190-211.	2.3	23
35	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, 871-877.	4.1	22
36	Cell cycle-dependent expression and subcellular localization of fructose 1,6-bisphosphatase. Histochemistry and Cell Biology, 2012, 137, 121-136.	1.7	21

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37	Neuron-derived transthyretin modulates astrocytic glycolysis in hormone-independent manner. Oncotarget, 2017, 8, 106625-106638.	1.8	20
38	Fructose-1,6-bisphosphatase: From a glucose metabolism enzyme to multifaceted regulator of a cell fate. Advances in Biological Regulation, 2019, 72, 41-50.	2.3	20
39	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, 55-59.	2.8	19
40	GSK-3Î² Can Regulate the Sensitivity of MIA-PaCa-2 Pancreatic and MCF-7 Breast Cancer Cells to Chemotherapeutic Drugs, Targeted Therapeutics and Nutraceuticals. Cells, 2021, 10, 816.	4.1	19
41	The Reverse Warburg Effect Is Associated with Fbp2-Dependent Hif1Î± Regulation in Cancer Cells Stimulated by Fibroblasts. Cells, 2020, 9, 205.	4.1	18
42	Cell-to-cell lactate shuttle operates in heart and is important in age-related heart failure. Aging, 2020, 12, 3388-3406.	3.1	18
43	Muscle FBPase is targeted to nucleus by its ₂₀₃KKKGK₂₀₇ sequence. Proteins: Structure, Function and Bioinformatics, 2009, 77, 262-267.	2.6	17
44	Absolute protein quantification allows differentiation of cell-specific metabolic routes and functions. Proteomics, 2015, 15, 1316-1325.	2.2	16
45	Association of Câ€terminal region of phosphoglycerate mutase with glycolytic complex regulates energy production in cancer cells. Journal of Cellular Physiology, 2012, 227, 2613-2621.	4.1	15
46	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.	3.1	15
47	Dimeric and tetrameric forms of muscle fructose-1,6-bisphosphatase play different roles in the cell. Oncotarget, 2017, 8, 115420-115433.	1.8	14
48	GSK3 and miRNA in neural tissue: From brain development to neurodegenerative diseases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118696.	4.1	14
49	Rabbit muscle fructose-1,6-bisphosphatase is phosphorylatedin vivo.. Acta Biochimica Polonica, 2003, 50, 115-121.	0.5	12
50	Proteomics Unveils Fibroblastâ€“Cardiomyocyte Lactate Shuttle and Hexokinase Paradox in Mouse Muscles. Journal of Proteome Research, 2016, 15, 2479-2490.	3.7	11
51	The Mechanism of Calcium-Induced Inhibition of Muscle Fructose 1,6-bisphosphatase and Destabilization of Glyconeogenic Complex. PLoS ONE, 2013, 8, e76669.	2.5	10
52	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.	2.3	10
53	GSK-3 and miRs: Master regulators of therapeutic sensitivity of cancer cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118770.	4.1	10
54	Absolute Proteome Analysis of Hippocampus, Cortex and Cerebellum in Aged and Young Mice Reveals Changes in Energy Metabolism. International Journal of Molecular Sciences, 2021, 22, 6188.	4.1	10

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55	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, 17237-17250.	1.8	10
56	Destabilization of fructose 1,6-bisphosphataseâ€“Z-line interactions is a mechanism of glyconeogenesis down-regulation in vivo. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 622-628.	4.1	9
57	Abilities of Î²-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.	2.3	9
58	Fructose 1,6-Bisphosphatase 2 Plays a Crucial Role in the Induction and Maintenance of Long-Term Potentiation. Cells, 2020, 9, 1375.	4.1	8
59	Quantitative Proteomics Reveals Significant Differences between Mouse Brain Formations in Expression of Proteins Involved in Neuronal Plasticity during Aging. Cells, 2021, 10, 2021.	4.1	8
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.	2.3	6
61	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.	1.1	6
62	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, 794.	4.1	6
63	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, 51-55.	1.6	5
64	Will Quantitative Proteomics Redefine Some of the Key Concepts in Skeletal Muscle Physiology?. Proteomes, 2016, 4, 2.	3.5	3
65	Expression of Fbp2, a Newly Discovered Constituent of Memory Formation Mechanisms, Is Regulated by Astrocyteâ€“Neuron Crosstalk. International Journal of Molecular Sciences, 2020, 21, 6903.	4.1	3
66	FBP2â€”A New Player in Regulation of Motility of Mitochondria and Stability of Microtubules in Cardiomyocytes. Cells, 2022, 11, 1710.	4.1	3
67	Structural studies of human muscle FBPase. Acta Biochimica Polonica, 2021, 68, 5-14.	0.5	2
68	A novel remitting leukodystrophy associated with a variant in FBP2. Brain Communications, 2021, 3, fcab036.	3.3	2
69	Cobalt Regulates Activation of Camk2Î± in Neurons by Influencing Fructose 1,6-Bisphosphatase 2 Quaternary Structure and Subcellular Localization. International Journal of Molecular Sciences, 2021, 22, 4800.	4.1	1