

Dariusz Rakus

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,784
citations

201385

27
h-index

189595

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. <i>Oncotarget</i> , 2014, 5, 2881-2911.	0.8	407
2	Deregulation of the EGFR/PI3K/PTEN/Akt/mTORC1 pathway in breast cancer: possibilities for therapeutic intervention. <i>Oncotarget</i> , 2014, 5, 4603-4650.	0.8	231
3	Multi-enzyme digestion FASP and the β -Total Protein Approach TM -based absolute quantification of the <i>Escherichia coli</i> proteome. <i>Journal of Proteomics</i> , 2014, 109, 322-331.	1.2	179
4	Effects of resveratrol, curcumin, berberine and other nutraceuticals on aging, cancer development, cancer stem cells and microRNAs. <i>Aging</i> , 2017, 9, 1477-1536.	1.4	168
5	Targeting GSK3 and Associated Signaling Pathways Involved in Cancer. <i>Cells</i> , 2020, 9, 1110.	1.8	146
6	Effects of mutations in Wnt/ β -catenin, hedgehog, Notch and PI3K pathways on GSK-3 activity TM Diverse effects on cell growth, metabolism and cancer. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2942-2976.	1.9	137
7	Roles of GSK-3 and microRNAs on epithelial mesenchymal transition and cancer stem cells. <i>Oncotarget</i> , 2017, 8, 14221-14250.	0.8	86
8	Targeting GSK3 signaling as a potential therapy of neurodegenerative diseases and aging. <i>Expert Opinion on Therapeutic Targets</i> , 2018, 22, 833-848.	1.5	83
9	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, 4005-4018.	1.8	74
10	Astrocyte \leftrightarrow neuron crosstalk regulates the expression and subcellular localization of carbohydrate metabolism enzymes. <i>Glia</i> , 2015, 63, 328-340.	2.5	59
11	Aging \leftrightarrow associated changes in hippocampal glycogen metabolism in mice. Evidence for and against astrocyte \leftrightarrow neuron lactate shuttle. <i>Glia</i> , 2018, 66, 1481-1495.	2.5	51
12	Nuclear localization of aldolase A correlates with cell proliferation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2812-2822.	1.9	47
13	Targeting a moonlighting function of aldolase induces apoptosis in cancer cells. <i>Cell Death and Disease</i> , 2019, 10, 712.	2.7	47
14	Metformin influences drug sensitivity in pancreatic cancer cells. <i>Advances in Biological Regulation</i> , 2018, 68, 13-30.	1.4	45
15	GSK3 β : A Master Player in Depressive Disorder Pathogenesis and Treatment Responsiveness. <i>Cells</i> , 2020, 9, 727.	1.8	42
16	Kinetic properties of pig (<i>Sus scrofa domestica</i>) and bovine (<i>Bos taurus</i>) D-fructose-1,6-bisphosphate 1-phosphohydrolase (F1,6BPase). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000, 127, 123-134.	0.7	39
17	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.	1.4	39
18	Absolute Quantitative Profiling of the Key Metabolic Pathways in Slow and Fast Skeletal Muscle. <i>Journal of Proteome Research</i> , 2015, 14, 1400-1411.	1.8	38

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19	Roles of TP53 in determining therapeutic sensitivity, growth, cellular senescence, invasion and metastasis. <i>Advances in Biological Regulation</i> , 2017, 63, 32-48.	1.4	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. <i>Advances in Biological Regulation</i> , 2016, 60, 64-87.	1.4	35
21	Quantitative analysis of the <i>Escherichia coli</i> proteome. <i>Data in Brief</i> , 2014, 1, 7-11.	0.5	34
22	Integrating Proteomics and Enzyme Kinetics Reveals Tissue-Specific Types of the Glycolytic and Gluconeogenic Pathways. <i>Journal of Proteome Research</i> , 2015, 14, 3263-3273.	1.8	34
23	Abilities of berberine and chemically modified berberines to inhibit proliferation of pancreatic cancer cells. <i>Advances in Biological Regulation</i> , 2019, 71, 172-182.	1.4	34
24	Critical Roles of EGFR Family Members in Breast Cancer and Breast Cancer Stem Cells: Targets for Therapy. <i>Current Pharmaceutical Design</i> , 2016, 22, 2358-2388.	0.9	34
25	Muscle Aldolase Decreases Muscle FBPase Sensitivity toward AMP Inhibition. <i>Biochemical and Biophysical Research Communications</i> , 2000, 275, 611-616.	1.0	31
26	Neuron-astrocyte interaction enhance GABAergic synaptic transmission in a manner dependent on key metabolic enzymes. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 120.	1.8	31
27	The effect of calcium ions on subcellular localization of aldolase-FBPase complex in skeletal muscle. <i>FEBS Letters</i> , 2005, 579, 1607-1612.	1.3	29
28	cDNA Sequence and Kinetic Properties of Human Lung Fructose(1,6)bisphosphatase. <i>Archives of Biochemistry and Biophysics</i> , 1999, 365, 1-9.	1.4	28
29	Muscle FBPase binds to cardiomyocyte mitochondria under glycogen synthase kinase β inhibition or elevation of cellular Ca ²⁺ level. <i>FEBS Letters</i> , 2012, 586, 13-19.	1.3	27
30	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, 536-550.	1.1	25
31	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.	1.4	25
32	Involvement of cellular metabolism in age-related LTP modifications in rat hippocampal slices. <i>Oncotarget</i> , 2015, 6, 14065-14081.	0.8	25
33	Different Sensitivities of Mutants and Chimeric Forms of Human Muscle and Liver Fructose-1,6-Bisphosphatases towards AMP. <i>Biological Chemistry</i> , 2003, 384, 51-58.	1.2	23
34	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.	1.4	23
35	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, 871-877.	1.9	22
36	Cell cycle-dependent expression and subcellular localization of fructose 1,6-bisphosphatase. <i>Histochemistry and Cell Biology</i> , 2012, 137, 121-136.	0.8	21

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37	Neuron-derived transthyretin modulates astrocytic glycolysis in hormone-independent manner. <i>Oncotarget</i> , 2017, 8, 106625-106638.	0.8	20
38	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.	1.4	20
39	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, 55-59.	1.2	19
40	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, 816.	1.8	19
41	The Reverse Warburg Effect Is Associated with Fbp2-Dependent Hif1 α Regulation in Cancer Cells Stimulated by Fibroblasts. <i>Cells</i> , 2020, 9, 205.	1.8	18
42	Cell-to-cell lactate shuttle operates in heart and is important in age-related heart failure. <i>Aging</i> , 2020, 12, 3388-3406.	1.4	18
43	Muscle FB Pase is targeted to nucleus by its $\text{K}^{\text{K}}\text{K}^{\text{G}}\text{K}$ sequence. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 77, 262-267.	1.5	17
44	Absolute protein quantification allows differentiation of cell-specific metabolic routes and functions. <i>Proteomics</i> , 2015, 15, 1316-1325.	1.3	16
45	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, 2613-2621.	2.0	15
46	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.	1.4	15
47	Dimeric and tetrameric forms of muscle fructose-1,6-bisphosphatase play different roles in the cell. <i>Oncotarget</i> , 2017, 8, 115420-115433.	0.8	14
48	GSK3 and miRNA in neural tissue: From brain development to neurodegenerative diseases. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118696.	1.9	14
49	Rabbit muscle fructose-1,6-bisphosphatase is phosphorylated in vivo. <i>Acta Biochimica Polonica</i> , 2003, 50, 115-121.	0.3	12
50	Proteomics Unveils Fibroblast-Cardiomyocyte Lactate Shuttle and Hexokinase Paradox in Mouse Muscles. <i>Journal of Proteome Research</i> , 2016, 15, 2479-2490.	1.8	11
51	The Mechanism of Calcium-Induced Inhibition of Muscle Fructose 1,6-bisphosphatase and Destabilization of Glyconeogenic Complex. <i>PLoS ONE</i> , 2013, 8, e76669.	1.1	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. <i>Advances in Biological Regulation</i> , 2019, 72, 22-40.	1.4	10
53	GSK-3 and miRs: Master regulators of therapeutic sensitivity of cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118770.	1.9	10
54	Absolute Proteome Analysis of Hippocampus, Cortex and Cerebellum in Aged and Young Mice Reveals Changes in Energy Metabolism. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6188.	1.8	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. <i>Oncotarget</i> , 2015, 6, 17237-17250.	0.8	10
56	Destabilization of fructose 1,6-bisphosphatase-Z-line interactions is a mechanism of glycconeogenesis down-regulation in vivo. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 622-628.	1.9	9
57	Abilities of 1 ² -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.	1.4	9
58	Fructose 1,6-Bisphosphatase 2 Plays a Crucial Role in the Induction and Maintenance of Long-Term Potentiation. <i>Cells</i> , 2020, 9, 1375.	1.8	8
59	Quantitative Proteomics Reveals Significant Differences between Mouse Brain Formations in Expression of Proteins Involved in Neuronal Plasticity during Aging. <i>Cells</i> , 2021, 10, 2021.	1.8	8
60	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.	1.4	6
61	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.	0.5	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. <i>Cells</i> , 2022, 11, 794.	1.8	6
63	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, 51-55.	0.7	5
64	Will Quantitative Proteomics Redefine Some of the Key Concepts in Skeletal Muscle Physiology?. <i>Proteomes</i> , 2016, 4, 2.	1.7	3
65	Expression of Fbp2, a Newly Discovered Constituent of Memory Formation Mechanisms, Is Regulated by Astrocyte-Neuron Crosstalk. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6903.	1.8	3
66	FBP2-A New Player in Regulation of Motility of Mitochondria and Stability of Microtubules in Cardiomyocytes. <i>Cells</i> , 2022, 11, 1710.	1.8	3
67	Structural studies of human muscle FBPase. <i>Acta Biochimica Polonica</i> , 2021, 68, 5-14.	0.3	2
68	A novel remitting leukodystrophy associated with a variant in FBP2. <i>Brain Communications</i> , 2021, 3, fcab036.	1.5	2
69	Cobalt Regulates Activation of Camk2 β in Neurons by Influencing Fructose 1,6-Bisphosphatase 2 Quaternary Structure and Subcellular Localization. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4800.	1.8	1