

Áttar Rolfsson

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

3,124
citations

236612

25
h-index

161609

54
g-index

62
all docs

62
docs citations

62
times ranked

4684
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutamine-Fructose-6-Phosphate Transaminase 2 (GFPT2) Is Upregulated in Breast Epithelial-Mesenchymal Transition and Responds to Oxidative Stress. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100185.	2.5	12
2	UDP-glucose dehydrogenase expression is upregulated following EMT and differentially affects intracellular glycerophosphocholine and acetylaspartate levels in breast mesenchymal cell lines. <i>Molecular Oncology</i> , 2022, 16, 1816-1840.	2.1	4
3	Protein Concentrations in Stored Pooled Platelet Concentrates Treated with Pathogen Inactivation by Amotosalen Plus Ultraviolet a Illumination. <i>Pathogens</i> , 2022, 11, 350.	1.2	0
4	Metabolic Response in Endothelial Cells to Catecholamine Stimulation Associated with Increased Vascular Permeability. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3162.	1.8	5
5	Exploratory Investigation of the Plasma Proteome Associated with the Endotheliopathy of Trauma. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6213.	1.8	5
6	Cerebrospinal Fluid C18 Ceramide Associates with Markers of Alzheimer's Disease and Inflammation at the Pre- and Early Stages of Dementia. <i>Journal of Alzheimer's Disease</i> , 2021, 81, 231-244.	1.2	19
7	Analyzing Metabolic States of Adipogenic and Osteogenic Differentiation in Human Mesenchymal Stem Cells via Genome Scale Metabolic Model Reconstruction. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 642681.	1.8	5
8	EMT-Derived Alterations in Glutamine Metabolism Sensitize Mesenchymal Breast Cells to mTOR Inhibition. <i>Molecular Cancer Research</i> , 2021, 19, 1546-1558.	1.5	6
9	Argininosuccinate lyase is a metabolic vulnerability in breast development and cancer. <i>Npj Systems Biology and Applications</i> , 2021, 7, 36.	1.4	3
10	The Anti-Proliferative Lichen-Compound Protolichesterinic Acid Inhibits Oxidative Phosphorylation and Is Processed via the Mercapturic Pathway in Cancer Cells. <i>Planta Medica</i> , 2021, , .	0.7	0
11	Lipid mediator profiles of burn wound healing: Acellular cod fish skin grafts promote the formation of EPA and DHA derived lipid mediators following seven days of treatment. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 175, 102358.	1.0	3
12	Metabolic and Transcriptional Changes across Osteogenic Differentiation of Mesenchymal Stromal Cells. <i>Bioengineering</i> , 2021, 8, 208.	1.6	6
13	Wound healing grafts: Omega-3 fatty acid lipid content differentiates the lipid profiles of acellular Atlantic cod skin from traditional dermal substitutes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 441-451.	1.3	12
14	Metabolic Systems Analysis of Shock-Induced Endotheliopathy (SHINE) in Trauma. <i>Annals of Surgery</i> , 2020, 272, 1140-1148.	2.1	23
15	Metabolomics study of platelet concentrates photochemically treated with amotosalen and UVA light for pathogen inactivation. <i>Transfusion</i> , 2020, 60, 367-377.	0.8	5
16	ECM1 secreted by HER2-overexpressing breast cancer cells promotes formation of a vascular niche accelerating cancer cell migration and invasion. <i>Laboratory Investigation</i> , 2020, 100, 928-944.	1.7	26
17	Visualizing metabolic network dynamics through time-series metabolomic data. <i>BMC Bioinformatics</i> , 2020, 21, 130.	1.2	13
18	Current Status and Future Prospects of Genome-Scale Metabolic Modeling to Optimize the Use of Mesenchymal Stem Cells in Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 239.	2.0	12

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19	Comparative Metabolic Network Flux Analysis to Identify Differences in Cellular Metabolism. <i>Methods in Molecular Biology</i> , 2020, 2088, 223-269.	0.4	4
20	Pathogen inactivation with amotosalen plus UVA illumination minimally impacts microRNA expression in platelets during storage under standard blood banking conditions. <i>Transfusion</i> , 2019, 59, 3727-3735.	0.8	3
21	Azithromycin induces epidermal differentiation and multivesicular bodies in airway epithelia. <i>Respiratory Research</i> , 2019, 20, 129.	1.4	17
22	Combined artificial high-silicate medium and LED illumination promote carotenoid accumulation in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Microbial Cell Factories</i> , 2019, 18, 209.	1.9	27
23	Ion mobility-derived collision cross section database: Application to mycotoxin analysis. <i>Analytica Chimica Acta</i> , 2018, 1014, 50-57.	2.6	61
24	Metabolic systems analysis of LPS induced endothelial dysfunction applied to sepsis patient stratification. <i>Scientific Reports</i> , 2018, 8, 6811.	1.6	29
25	Chemical Mutagenesis and Fluorescence-Based High-Throughput Screening for Enhanced Accumulation of Carotenoids in a Model Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>Marine Drugs</i> , 2018, 16, 272.	2.2	35
26	Altered plasmalogen content and fatty acid saturation following epithelial to mesenchymal transition in breast epithelial cell lines. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 103, 99-104.	1.2	17
27	Systems analysis of metabolism in platelet concentrates during storage in platelet additive solution. <i>Biochemical Journal</i> , 2018, 475, 2225-2240.	1.7	20
28	Metabolic re-wiring of isogenic breast epithelial cell lines following epithelial to mesenchymal transition. <i>Cancer Letters</i> , 2017, 396, 117-129.	3.2	45
29	Metabolomics comparison of red cells stored in four additive solutions reveals differences in citrate anticoagulant permeability and metabolism. <i>Vox Sanguinis</i> , 2017, 112, 326-335.	0.7	46
30	Elucidating dynamic metabolic physiology through network integration of quantitative time-course metabolomics. <i>Scientific Reports</i> , 2017, 7, 46249.	1.6	121
31	Quantitative time-course metabolomics in human red blood cells reveal the temperature dependence of human metabolic networks. <i>Journal of Biological Chemistry</i> , 2017, 292, 19556-19564.	1.6	45
32	Mannose and fructose metabolism in red blood cells during cold storage in SAGM. <i>Transfusion</i> , 2017, 57, 2665-2676.	0.8	14
33	Regenerative and Antibacterial Properties of Acellular Fish Skin Grafts and Human Amnion/Chorion Membrane: Implications for Tissue Preservation in Combat Casualty Care. <i>Military Medicine</i> , 2017, 182, 383-388.	0.4	51
34	Understanding the Causes and Implications of Endothelial Metabolic Variation in Cardiovascular Disease through Genome-Scale Metabolic Modeling. <i>Frontiers in Cardiovascular Medicine</i> , 2016, 3, 10.	1.1	15
35	Identified metabolic signature for assessing red blood cell unit quality is associated with endothelial damage markers and clinical outcomes. <i>Transfusion</i> , 2016, 56, 852-862.	0.8	105
36	Direct Evidence for Packaging Signal-Mediated Assembly of Bacteriophage MS2. <i>Journal of Molecular Biology</i> , 2016, 428, 431-448.	2.0	80

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37	Biomarkers defining the metabolic age of red blood cells during cold storage. <i>Blood</i> , 2016, 128, e43-e50.	0.6	115
38	Metabolic fate of adenine in red blood cells during storage in SAGM solution. <i>Transfusion</i> , 2016, 56, 2538-2547.	0.8	39
39	Bacteriophage MS2 genomic RNA encodes an assembly instruction manual for its capsid. <i>Bacteriophage</i> , 2016, 6, e1157666.	1.9	38
40	EGFR Signal-Network Reconstruction Demonstrates Metabolic Crosstalk in EMT. <i>PLoS Computational Biology</i> , 2016, 12, e1004924.	1.5	42
41	Metabolic Analysis of Red Blood Cells Stored at High Temperature. <i>Blood</i> , 2016, 128, 3848-3848.	0.6	0
42	Kinetic analysis of gluconate phosphorylation by human gluconokinase using isothermal titration calorimetry. <i>FEBS Letters</i> , 2015, 589, 3548-3555.	1.3	18
43	Metabolomic analysis of platelets during storage: a comparison between apheresis- and buffy coat-derived platelet concentrates. <i>Transfusion</i> , 2015, 55, 301-313.	0.8	54
44	Decoding the jargon of bottom-up metabolic systems biology. <i>BioEssays</i> , 2015, 37, 588-591.	1.2	12
45	Prediction of intracellular metabolic states from extracellular metabolomic data. <i>Metabolomics</i> , 2015, 11, 603-619.	1.4	66
46	Biochemical Characterization of Human Gluconokinase and the Proposed Metabolic Impact of Gluconic Acid as Determined by Constraint Based Metabolic Network Analysis. <i>PLoS ONE</i> , 2014, 9, e98760.	1.1	28
47	Ion Mobility Derived Collision Cross Sections to Support Metabolomics Applications. <i>Analytical Chemistry</i> , 2014, 86, 3985-3993.	3.2	279
48	Comprehensive metabolomic study of platelets reveals the expression of discrete metabolic phenotypes during storage. <i>Transfusion</i> , 2014, 54, 2911-2923.	0.8	61
49	A community-driven global reconstruction of human metabolism. <i>Nature Biotechnology</i> , 2013, 31, 419-425.	9.4	920
50	Inferring the metabolism of human orphan metabolites from their metabolic network context affirms human gluconokinase activity. <i>Biochemical Journal</i> , 2013, 449, 427-435.	1.7	21
51	The human metabolic reconstruction Recon 1 directs hypotheses of novel human metabolic functions. <i>BMC Systems Biology</i> , 2011, 5, 155.	3.0	60
52	Viral Genomic Single-Stranded RNA Directs the Pathway Toward a T=3 Capsid. <i>Journal of Molecular Biology</i> , 2010, 395, 924-936.	2.0	60
53	Mutually-induced Conformational Switching of RNA and Coat Protein Underpins Efficient Assembly of a Viral Capsid. <i>Journal of Molecular Biology</i> , 2010, 401, 309-322.	2.0	37
54	RNA Packing Specificity and Folding during Assembly of the Bacteriophage MS2. <i>Computational and Mathematical Methods in Medicine</i> , 2008, 9, 339-349.	0.7	12

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55	A Simple, RNA-Mediated Allosteric Switch Controls the Pathway to Formation of a T=3 Viral Capsid. Journal of Molecular Biology, 2007, 369, 541-552.	2.0	128
56	Linkage of Osteoporosis to Chromosome 20p12 and Association to BMP2. PLoS Biology, 2003, 1, e69.	2.6	222