Deepak Nagrath

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6701869/publications.pdf

Version: 2024-02-01

65 papers	5,444 citations	94433 37 h-index	123424 61 g-index
67 all docs	67 docs citations	67 times ranked	9248 citing authors

#	Article	IF	Citations
1	Circulating tumor cells in precision medicine: challenges and opportunities. Trends in Pharmacological Sciences, 2022, 43, 378-391.	8.7	47
2	Radiotherapy-induced metabolic hallmarks in the tumor microenvironment. Trends in Cancer, 2022, 8, 855-869.	7.4	17
3	Driving with Both Feet: Supplementing AKG While Inhibiting BCAT1 Leads to Synthetic Lethality in GBM. Cancer Research, 2022, 82, 2354-2356.	0.9	0
4	Generation of systemic antitumour immunity via the in situ modulation of the gut microbiome by an orally administered inulin gel. Nature Biomedical Engineering, 2021, 5, 1377-1388.	22.5	95
5	The Lung Microbiome: A Central Mediator of Host Inflammation and Metabolism in Lung Cancer Patients?. Cancers, 2021, 13, 13.	3.7	21
6	Targeting integrated epigenetic and metabolic pathways in lethal childhood PFA ependymomas. Science Translational Medicine, 2021, 13, eabc0497.	12.4	29
7	Mitochondrial Electron Transport Chain Inhibition Promotes Resistance to Proteasome Inhibitors in Multiple Myeloma. Blood, 2021, 138, 1611-1611.	1.4	0
8	Metabolic Reprogramming and Vulnerabilities in Cancer. Cancers, 2020, 12, 90.	3.7	8
9	ITLN1 modulates invasive potential and metabolic reprogramming of ovarian cancer cells in omental microenvironment. Nature Communications, 2020, 11, 3546.	12.8	28
10	Cellular Location of HNF4Î± is Linked With Terminal Liver Failure in Humans. Hepatology Communications, 2020, 4, 859-875.	4.3	12
11	Electron transport chain activity is a predictor and target for venetoclax sensitivity in multiple myeloma. Nature Communications, 2020, 11, 1228.	12.8	62
12	Tumour-reprogrammed stromal BCAT1 fuels branched-chain ketoacid dependency in stromal-rich PDAC tumours. Nature Metabolism, 2020, 2, 775-792.	11.9	110
13	Microfluidic device for high-throughput affinity-based isolation of extracellular vesicles. Lab on A Chip, 2020, 20, 1762-1770.	6.0	57
14	Quantifying Metabolic Transfer Mediated by Extracellular Vesicles Using Exo-MFA: An Integrated Empirical and Computational Platform. Methods in Molecular Biology, 2020, 2088, 205-221.	0.9	5
15	Liquid Chromatography Methods for Separation of Polar and Charged Intracellular Metabolites for 13C Metabolic Flux Analysis. Methods in Molecular Biology, 2020, 2088, 33-50.	0.9	4
16	Generation of Human Fatty Livers Using Custom-Engineered Induced Pluripotent Stem Cells with Modifiable SIRT1 Metabolism. Cell Metabolism, 2019, 30, 385-401.e9.	16.2	75
17	Reactive Oxygen Species in the Tumor Microenvironment: An Overview. Cancers, 2019, 11, 1191.	3.7	288
18	Lactate-mediated epigenetic reprogramming regulates formation of human pancreatic cancer-associated fibroblasts. ELife, 2019, 8, .	6.0	103

#	Article	IF	Citations
19	Regulation of protein metabolism in cancer. Molecular and Cellular Oncology, 2018, 5, e1285384.	0.7	9
20	The key role of extracellular vesicles in the metastatic process. Biochimica Et Biophysica Acta: Reviews on Cancer, 2018, 1869, 64-77.	7.4	119
21	Genomic deletion of malic enzyme 2 confers collateral lethality in pancreatic cancer. Nature, 2017, 542, 119-123.	27.8	209
22	Exo-MFA â€“ A 13C metabolic flux analysis framework to dissect tumor microenvironment-secreted exosome contributions towards cancer cell metabolism. Metabolic Engineering, 2017, 43, 156-172.	7.0	63
23	Mutant Kras- and p16-regulated NOX4 activation overcomes metabolic checkpoints in development of pancreatic ductal adenocarcinoma. Nature Communications, 2017, 8, 14437.	12.8	77
24	Glutaminolysis: A Hallmark of Cancer Metabolism. Annual Review of Biomedical Engineering, 2017, 19, 163-194.	12.3	528
25	The role of stromal cancer-associated fibroblasts in pancreatic cancer. Journal of Hematology and Oncology, 2017, 10, 76.	17.0	281
26	Energy stress-induced lncRNA FILNC1 represses c-Myc-mediated energy metabolism and inhibits renal tumor development. Nature Communications, 2017, 8, 783.	12.8	157
27	Nitric Oxide: The Forgotten Child of Tumor Metabolism. Trends in Cancer, 2017, 3, 659-672.	7.4	78
28	Tumor microenvironment derived exosomes pleiotropically modulate cancer cell metabolism. ELife, 2016, 5, e10250.	6.0	681
29	Amplification of USP13 drives ovarian cancer metabolism. Nature Communications, 2016, 7, 13525.	12.8	99
30	Targeting Stromal Glutamine Synthetase in Tumors Disrupts Tumor Microenvironment-Regulated Cancer Cell Growth. Cell Metabolism, 2016, 24, 685-700.	16.2	293
31	Role of Increased n-acetylaspartate Levels in Cancer. Journal of the National Cancer Institute, 2016, 108, djv426.	6.3	51
32	Synthesis and Biological Evaluation of Dimeric Furanoid Macroheterocycles: Discovery of New Anticancer Agents. Journal of the American Chemical Society, 2015, 137, 4766-4770.	13.7	7
33	Nitric Oxide Mediates Metabolic Coupling of Omentum-Derived Adipose Stroma to Ovarian and Endometrial Cancer Cells. Cancer Research, 2015, 75, 456-471.	0.9	70
34	Linking omentum and ovarian cancer: NO. Oncoscience, 2015, 2, 797-798.	2.2	5
35	HSulf-1 deficiency dictates a metabolic reprograming of glycolysis and TCA cycle in ovarian cancer. Oncotarget, 2015, 6, 33705-33719.	1.8	28
36	Metabolic shifts toward glutamine regulate tumor growth, invasion and bioenergetics in ovarian cancer. Molecular Systems Biology, 2014, 10, 728.	7.2	255

#	Article	IF	Citations
37	Metabolic regulation of collagen gel contraction by porcine aortic valvular interstitial cells. Journal of the Royal Society Interface, 2014, 11, 20140852.	3.4	14
38	Reply to: â€œIs the pathway of energy metabolism modified in advanced cirrhosis?â€. Journal of Hepatology, 2014, 61, 453.	3.7	0
39	Nitric oxide is a positive regulator of the Warburg effect in ovarian cancer cells. Cell Death and Disease, 2014, 5, e1302-e1302.	6.3	69
40	A switch in the source of ATP production and a loss in capacity to perform glycolysis are hallmarks of hepatocyte failure in advance liver disease. Journal of Hepatology, 2014, 60, 1203-1211.	3.7	99
41	Modeling Integrated Cellular Machinery Using Hybrid Petri-Boolean Networks. PLoS Computational Biology, 2013, 9, e1003306.	3.2	14
42	Human Omental-Derived Adipose Stem Cells Increase Ovarian Cancer Proliferation, Migration, and Chemoresistance. PLoS ONE, 2013, 8, e81859.	2.5	95
43	Pyruvate uptake is increased in highly invasive ovarian cancer cells under anoikis conditions for anaplerosis, mitochondrial function, and migration. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1036-E1052.	3.5	83
44	The glucoseâ€deprivation network counteracts lapatinibâ€induced toxicity in resistant ErbB2â€positive breast cancer cells. Molecular Systems Biology, 2012, 8, 596.	7.2	109
45	Oncosecretomics coupled to bioenergetics identifies Î±-amino adipic acid, isoleucine and GABA as potential biomarkers of cancer: Differential expression of c-Myc, Oct1 and KLF4 coordinates metabolic changes. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 2060-2071.	1.0	34
46	Optimality and thermodynamics determine the evolution of transcriptional regulatory networks. Molecular BioSystems, 2012, 8, 511-530.	2.9	4
47	Metabolic Profiling Based Quantitative Evaluation of Hepatocellular Metabolism in Presence of Adipocyte Derived Extracellular Matrix. PLoS ONE, 2011, 6, e20137.	2.5	11
48	Metabolomics for mitochondrial and cancer studies. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 650-663.	1.0	60
49	Characterization and modeling of nonlinear hydrophobic interaction chromatographic systems. Journal of Chromatography A, 2011, 1218, 1219-1226.	3.7	29
50	Liver Tissue Engineering. , 2011, , 389-419.		7
51	Soft constraints-based multiobjective framework for flux balance analysis. Metabolic Engineering, 2010, 12, 429-445.	7.0	33
52	Adipocyteâ€derived basement membrane extract with biological activity: applications in hepatocyte functional augmentationin vitro. FASEB Journal, 2010, 24, 2364-2374.	0.5	24
53	Metabolic preconditioning of donor organs: Defatting fatty livers by normothermic perfusion ex vivo. Metabolic Engineering, 2009, 11, 274-283.	7.0	139
54	A Hybrid Model Framework for the Optimization of Preparative Chromatographic Processes. Biotechnology Progress, 2008, 20, 162-178.	2.6	34

#	Article	IF	Citations
55	Three-Dimensional Primary Hepatocyte Culture in Synthetic Self-Assembling Peptide Hydrogel. Tissue Engineering - Part A, 2008, 14, 227-236.	3.1	144
56	Oxygen uptake rates and liver-specific functions of hepatocyte and 3T3 fibroblast co-cultures. Biotechnology and Bioengineering, 2007, 97, 188-199.	3.3	86
57	Integrated Energy and Flux Balance Based Multiobjective Framework for Large-Scale Metabolic Networks. Annals of Biomedical Engineering, 2007, 35, 863-885.	2.5	62
58	Evolution of intrahepatic carbon, nitrogen, and energy metabolism in a D-galactosamine-induced rat liver failure model. Metabolic Engineering, 2005, 7, 88-103.	7.0	40
59	Effect of pH changes on water release values in hydrophobic interaction chromatographic systems. Journal of Chromatography A, 2005, 1079, 229-235.	3.7	64
60	Multiobjective optimization strategies for linear gradient chromatography. AICHE Journal, 2005, 51, 511-525.	3.6	26
61	Use and Optimization of a Dual-Flowrate Loading Strategy To Maximize Throughput in Protein-A Affinity Chromatography. Biotechnology Progress, 2004, 20, 830-840.	2.6	57
62	Evaluation of selectivity changes in HIC systems using a preferential interaction based analysis. Biotechnology and Bioengineering, 2004, 87, 354-363.	3.3	48
63	Evolutionary operation and control of chromatographic processes. AICHE Journal, 2003, 49, 82-95.	3.6	17
64	Modeling of adsorption in hydrophobic interaction chromatography systems using a preferential interaction quadratic isotherm. Journal of Chromatography A, 2003, 989, 47-54.	3.7	38
65	A model predictive formulation for control of open-loop unstable cascade systems. Chemical Engineering Science, 2002, 57, 365-378.	3.8	31