# Deepak Nagrath

List of Publications by Year
in descending order

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

Version: 2024-02-01

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|---|---|---|---|
| 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 | Tumor microenvironment derived exosomes pleiotropically modulate cancer cell metabolism. ELife, 2016, 5, e10250. | 6.0 | 681 |
| 2 | Glutaminolysis: A Hallmark of Cancer Metabolism. Annual Review of Biomedical Engineering, 2017, 19, 163-194. | 12.3 | 528 |
| 3 | Targeting Stromal Glutamine Synthetase in Tumors Disrupts Tumor Microenvironment-Regulated Cancer Cell Growth. Cell Metabolism, 2016, 24, 685-700. | 16.2 | 293 |
| 4 | Reactive Oxygen Species in the Tumor Microenvironment: An Overview. Cancers, 2019, 11, 1191. | 3.7 | 288 |
| 5 | The role of stromal cancer-associated fibroblasts in pancreatic cancer. Journal of Hematology and Oncology, 2017, 10, 76. | 17.0 | 281 |
| 6 | Metabolic shifts toward glutamine regulate tumor growth, invasion and bioenergetics in ovarian cancer. Molecular Systems Biology, 2014, 10, 728. | 7.2 | 255 |
| 7 | Genomic deletion of malic enzyme 2 confers collateral lethality in pancreatic cancer. Nature, 2017, 542, 119-123. | 27.8 | 209 |
| 8 | Energy stress-induced lncRNA FILNC1 represses c-Myc-mediated energy metabolism and inhibits renal tumor development. Nature Communications, 2017, 8, 783. | 12.8 | 157 |
| 9 | Three-Dimensional Primary Hepatocyte Culture in Synthetic Self-Assembling Peptide Hydrogel. Tissue Engineering - Part A, 2008, 14, 227-236. | 3.1 | 144 |
| 10 | Metabolic preconditioning of donor organs: Defatting fatty livers by normothermic perfusion ex vivo. Metabolic Engineering, 2009, 11, 274-283. | 7.0 | 139 |
| 11 | The key role of extracellular vesicles in the metastatic process. Biochimica Et Biophysica Acta: Reviews on Cancer, 2018, 1869, 64-77. | 7.4 | 119 |
| 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 | The glucoseâ€deprivation network counteracts lapatinibâ€induced toxicity in resistant ErbB2â€positive breast cancer cells. Molecular Systems Biology, 2012, 8, 596. | 7.2 | 109 |
| 14 | Lactate-mediated epigenetic reprogramming regulates formation of human pancreatic cancer-associated fibroblasts. ELife, 2019, 8, . | 6.0 | 103 |
| 15 | 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 |
| 16 | Amplification of USP13 drives ovarian cancer metabolism. Nature Communications, 2016, 7, 13525. | 12.8 | 99 |
| 17 | Human Omental-Derived Adipose Stem Cells Increase Ovarian Cancer Proliferation, Migration, and Chemoresistance. PLoS ONE, 2013, 8, e81859. | 2.5 | 95 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Oxygen uptake rates and liver-specific functions of hepatocyte and 3T3 fibroblast co-cultures. Biotechnology and Bioengineering, 2007, 97, 188-199. | 3.3 | 86 |
| 20 | 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 |
| 21 | Nitric Oxide: The Forgotten Child of Tumor Metabolism. Trends in Cancer, 2017, 3, 659-672. | 7.4 | 78 |
| 22 | Mutant Kras- and p16-regulated NOX4 activation overcomes metabolic checkpoints in development of pancreatic ductal adenocarcinoma. Nature Communications, 2017, 8, 14437. | 12.8 | 77 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Effect of pH changes on water release values in hydrophobic interaction chromatographic systems. Journal of Chromatography A, 2005, 1079, 229-235. | 3.7 | 64 |
| 27 | 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 |
| 28 | Integrated Energy and Flux Balance Based Multiobjective Framework for Large-Scale Metabolic Networks. Annals of Biomedical Engineering, 2007, 35, 863-885. | 2.5 | 62 |
| 29 | Electron transport chain activity is a predictor and target for venetoclax sensitivity in multiple myeloma. Nature Communications, 2020, 11, 1228. | 12.8 | 62 |
| 30 | Metabolomics for mitochondrial and cancer studies. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 650-663. | 1.0 | 60 |
| 31 | 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 |
| 32 | Microfluidic device for high-throughput affinity-based isolation of extracellular vesicles. Lab on A Chip, 2020, 20, 1762-1770. | 6.0 | 57 |
| 33 | Role of Increased n-acetylaspartate Levels in Cancer. Journal of the National Cancer Institute, 2016, 108, djv426. | 6.3 | 51 |
| 34 | Evaluation of selectivity changes in HIC systems using a preferential interaction based analysis. Biotechnology and Bioengineering, 2004, 87, 354-363. | 3.3 | 48 |
| 35 | Circulating tumor cells in precision medicine: challenges and opportunities. Trends in Pharmacological Sciences, 2022, 43, 378-391. | 8.7 | 47 |
| 36 | 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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | A Hybrid Model Framework for the Optimization of Preparative Chromatographic Processes. Biotechnology Progress, 2008, 20, 162-178. | 2.6 | 34 |
| 39 | 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 |
| 40 | Soft constraints-based multiobjective framework for flux balance analysis. Metabolic Engineering, 2010, 12, 429-445. | 7.0 | 33 |
| 41 | A model predictive formulation for control of open-loop unstable cascade systems. Chemical Engineering Science, 2002, 57, 365-378. | 3.8 | 31 |
| 42 | Characterization and modeling of nonlinear hydrophobic interaction chromatographic systems. Journal of Chromatography A, 2011, 1218, 1219-1226. | 3.7 | 29 |
| 43 | Targeting integrated epigenetic and metabolic pathways in lethal childhood PFA ependymomas. Science Translational Medicine, 2021, 13, eabc0497. | 12.4 | 29 |
| 44 | ITLN1 modulates invasive potential and metabolic reprogramming of ovarian cancer cells in omental microenvironment. Nature Communications, 2020, 11, 3546. | 12.8 | 28 |
| 45 | HSulf-1 deficiency dictates a metabolic reprograming of glycolysis and TCA cycle in ovarian cancer. Oncotarget, 2015, 6, 33705-33719. | 1.8 | 28 |
| 46 | Multiobjective optimization strategies for linear gradient chromatography. AICHE Journal, 2005, 51, 511-525. | 3.6 | 26 |
| 47 | Adipocyteâ€derived basement membrane extract with biological activity: applications in hepatocyte functional augmentationin vitro. FASEB Journal, 2010, 24, 2364-2374. | 0.5 | 24 |
| 48 | The Lung Microbiome: A Central Mediator of Host Inflammation and Metabolism in Lung Cancer Patients?. Cancers, 2021, 13, 13. | 3.7 | 21 |
| 49 | Evolutionary operation and control of chromatographic processes. AICHE Journal, 2003, 49, 82-95. | 3.6 | 17 |
| 50 | Radiotherapy-induced metabolic hallmarks in the tumor microenvironment. Trends in Cancer, 2022, 8, 855-869. | 7.4 | 17 |
| 51 | Modeling Integrated Cellular Machinery Using Hybrid Petri-Boolean Networks. PLoS Computational Biology, 2013, 9, e1003306. | 3.2 | 14 |
| 52 | Metabolic regulation of collagen gel contraction by porcine aortic valvular interstitial cells. Journal of the Royal Society Interface, 2014, 11, 20140852. | 3.4 | 14 |
| 53 | Cellular Location of HNF4Î± is Linked With Terminal Liver Failure in Humans. Hepatology Communications, 2020, 4, 859-875. | 4.3 | 12 |
| 54 | Metabolic Profiling Based Quantitative Evaluation of Hepatocellular Metabolism in Presence of Adipocyte Derived Extracellular Matrix. PLoS ONE, 2011, 6, e20137. | 2.5 | 11 |

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|---|---|---|---|
| 55 | Regulation of protein metabolism in cancer. Molecular and Cellular Oncology, 2018, 5, e1285384. | 0.7 | 9 |
| 56 | Metabolic Reprogramming and Vulnerabilities in Cancer. Cancers, 2020, 12, 90. | 3.7 | 8 |
| 57 | Liver Tissue Engineering. , 2011, , 389-419. | | 7 |
| 58 | 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 |
| 59 | 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 |
| 60 | Linking omentum and ovarian cancer: NO. Oncoscience, 2015, 2, 797-798. | 2.2 | 5 |
| 61 | Optimality and thermodynamics determine the evolution of transcriptional regulatory networks. Molecular BioSystems, 2012, 8, 511-530. | 2.9 | 4 |
| 62 | 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 |
| 63 | Reply to: â€œIs the pathway of energy metabolism modified in advanced cirrhosis?â€. Journal of Hepatology, 2014, 61, 453. | 3.7 | 0 |
| 64 | Mitochondrial Electron Transport Chain Inhibition Promotes Resistance to Proteasome Inhibitors in Multiple Myeloma. Blood, 2021, 138, 1611-1611. | 1.4 | 0 |
| 65 | Driving with Both Feet: Supplementing AKG While Inhibiting BCAT1 Leads to Synthetic Lethality in GBM. Cancer Research, 2022, 82, 2354-2356. | 0.9 | 0 |