

Ralph J Deberardinis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

208
papers

38,171
citations

83
h-index

195
g-index

237
ext. papers

47,162
ext. citations

17.7
avg, IF

7.8
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 208 | Metabolic diversity within breast cancer brain-tropic cells determines metastatic fitness.. <i>Cell Metabolism</i> , 2022 , 34, 90-105.e7 | 24.6 | 2 |
| 207 | Abstract P5-05-01: Metabolite profiling and RNA-seq identifies novel metabolomic-genomic biomarker and therapeutic options for rapidly proliferating breast cancers. <i>Cancer Research</i> , 2022 , 82, P5-05-01-P5-05-01 | 10.1 | |
| 206 | Clinically relevant T cell expansion media activate distinct metabolic programs uncoupled from cellular function.. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022 , 24, 380-393 | 6.4 | 0 |
| 205 | SNAT7 regulates mTORC1 via macropinocytosis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2123261119 | 11.5 | 2 |
| 204 | Optimized protocol for stable isotope tracing and steady-state metabolomics in mouse HER2+ breast cancer brain metastasis.. <i>STAR Protocols</i> , 2022 , 3, 101345 | 1.4 | |
| 203 | Detection of glucose-derived D- and L-lactate in cancer cells by the use of a chiral NMR shift reagent. <i>Cancer & Metabolism</i> , 2021 , 9, 38 | 5.4 | 1 |
| 202 | A renal cell carcinoma tumorgraft platform to advance precision medicine. <i>Cell Reports</i> , 2021 , 37, 110055 | 10.6 | 4 |
| 201 | Cell-autonomous immune gene expression is repressed in pulmonary neuroendocrine cells and small cell lung cancer. <i>Communications Biology</i> , 2021 , 4, 314 | 6.7 | 9 |
| 200 | Isotope tracing reveals glycolysis and oxidative metabolism in childhood tumors of multiple histologies. <i>Med</i> , 2021 , 2, 395-410 | 31.7 | 5 |
| 199 | Mitochondrial NADP is essential for proline biosynthesis during cell growth. <i>Nature Metabolism</i> , 2021 , 3, 571-585 | 14.6 | 20 |
| 198 | Metabolic impact of pathogenic variants in the mitochondrial glutamyl-tRNA synthetase EARS2. <i>Journal of Inherited Metabolic Disease</i> , 2021 , 44, 949-960 | 5.4 | 1 |
| 197 | Regulation of branched-chain amino acid metabolism by hypoxia-inducible factor in glioblastoma. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 195-206 | 10.3 | 27 |
| 196 | Guanosine triphosphate links MYC-dependent metabolic and ribosome programs in small-cell lung cancer. <i>Journal of Clinical Investigation</i> , 2021 , 131, | 15.9 | 15 |
| 195 | A pathogenic UFSP2 variant in an autosomal recessive form of pediatric neurodevelopmental anomalies and epilepsy. <i>Genetics in Medicine</i> , 2021 , 23, 900-908 | 8.1 | 2 |
| 194 | The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. <i>Nature Metabolism</i> , 2021 , 3, 244-257 | 14.6 | 9 |
| 193 | Metabolic Plasticity of Neutrophils: Relevance to Pathogen Responses and Cancer. <i>Trends in Cancer</i> , 2021 , 7, 700-713 | 12.5 | 7 |
| 192 | Stable isotope tracing to assess tumor metabolism in vivo. <i>Nature Protocols</i> , 2021 , 16, 5123-5145 | 18.8 | 4 |

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|-----|---|------|-----|
| 191 | Profiling Carbohydrate Metabolism in Liver and Hepatocellular Carcinoma with [13C]-Glycerate Probes. <i>Analysis & Sensing</i> , 2021 , 1, 196 | | 2 |
| 190 | 1-Methylnicotinamide is an immune regulatory metabolite in human ovarian cancer. <i>Science Advances</i> , 2021 , 7, | 14.3 | 13 |
| 189 | EWS-FLI1-regulated Serine Synthesis and Exogenous Serine are Necessary for Ewing Sarcoma Cellular Proliferation and Tumor Growth. <i>Molecular Cancer Therapeutics</i> , 2020 , 19, 1520-1529 | 6.1 | 13 |
| 188 | Using arterial-venous analysis to characterize cancer metabolic consumption in patients. <i>Nature Communications</i> , 2020 , 11, 3169 | 17.4 | 12 |
| 187 | The transcription factors aryl hydrocarbon receptor and MYC cooperate in the regulation of cellular metabolism. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12398-12407 | 5.4 | 2 |
| 186 | N-Acetyl cysteine abrogates silver-induced reactive oxygen species in human cells without altering silver-based antimicrobial activity. <i>Toxicology Letters</i> , 2020 , 332, 118-129 | 4.4 | 1 |
| 185 | Tumor Microenvironment, Metabolism, and Immunotherapy. <i>New England Journal of Medicine</i> , 2020 , 382, 869-871 | 59.2 | 63 |
| 184 | Assessment of Rapid Hepatic Glycogen Synthesis in Humans Using Dynamic C Magnetic Resonance Spectroscopy. <i>Hepatology Communications</i> , 2020 , 4, 425-433 | 6 | 5 |
| 183 | Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. <i>Neuro-Oncology</i> , 2020 , 22, 1018-1029 | 1 | 13 |
| 182 | Metabolic reprogramming and cancer progression. <i>Science</i> , 2020 , 368, | 33.3 | 360 |
| 181 | β-ketobutyrate links alterations in cystine metabolism to glucose oxidation in mtDNA mutant cells. <i>Metabolic Engineering</i> , 2020 , 60, 157-167 | 9.7 | 2 |
| 180 | Mitochondrial fatty acid synthesis coordinates oxidative metabolism in mammalian mitochondria. <i>ELife</i> , 2020 , 9, | 8.9 | 20 |
| 179 | A tribute to Beth Levine (1960-2020). <i>Journal of Clinical Investigation</i> , 2020 , 130, 4517-4518 | 15.9 | 78 |
| 178 | Vitamin B6-dependent epilepsy due to pyridoxal phosphate-binding protein (PLPBP) defect - First case report from Pakistan and review of literature. <i>Annals of Medicine and Surgery</i> , 2020 , 60, 721-727 | 2 | 2 |
| 177 | Mechanical regulation of glycolysis via cytoskeleton architecture. <i>Nature</i> , 2020 , 578, 621-626 | 50.4 | 137 |
| 176 | We need to talk about the Warburg effect. <i>Nature Metabolism</i> , 2020 , 2, 127-129 | 14.6 | 205 |
| 175 | p53 deficiency triggers dysregulation of diverse cellular processes in physiological oxygen. <i>Journal of Cell Biology</i> , 2020 , 219, | 7.3 | 12 |
| 174 | Does Tumor FDG-PET Avidity Represent Enhanced Glycolytic Metabolism in Non-Small Cell Lung Cancer?. <i>Annals of Thoracic Surgery</i> , 2020 , 109, 1019-1025 | 2.7 | 9 |

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|-----|--|------|-----|
| 173 | Metabolic heterogeneity confers differences in melanoma metastatic potential. <i>Nature</i> , 2020 , 577, 115-124 | 12.4 | 141 |
| 172 | Leveraging insights into cancer metabolism-a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020 , 1462, 5-13 | 6.5 | 1 |
| 171 | The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. <i>Nature Metabolism</i> , 2020 , 2, 1401-1412 | 14.6 | 26 |
| 170 | Glutamine uptake and utilization of human mesenchymal glioblastoma in orthotopic mouse model. <i>Cancer & Metabolism</i> , 2020 , 8, 9 | 5.4 | 9 |
| 169 | Concentration-dependent Early Antivascular and Antitumor Effects of Itraconazole in Non-Small Cell Lung Cancer. <i>Clinical Cancer Research</i> , 2020 , 26, 6017-6027 | 12.9 | 7 |
| 168 | Mechanisms and Implications of Metabolic Heterogeneity in Cancer. <i>Cell Metabolism</i> , 2019 , 30, 434-446 | 24.6 | 159 |
| 167 | A Novel Mitochondrial Inhibitor Blocks MAPK Pathway and Overcomes MAPK Inhibitor Resistance in Melanoma. <i>Clinical Cancer Research</i> , 2019 , 25, 6429-6442 | 12.9 | 30 |
| 166 | Metabolic Diversity in Human Non-Small Cell Lung Cancer Cells. <i>Molecular Cell</i> , 2019 , 76, 838-851.e5 | 17.6 | 51 |
| 165 | 6-Phosphogluconolactone, a Byproduct of the Oxidative Pentose Phosphate Pathway, Contributes to AMPK Activation through Inhibition of PP2A. <i>Molecular Cell</i> , 2019 , 76, 857-871.e9 | 17.6 | 15 |
| 164 | MYC-Driven Small-Cell Lung Cancer is Metabolically Distinct and Vulnerable to Arginine Depletion. <i>Clinical Cancer Research</i> , 2019 , 25, 5107-5121 | 12.9 | 56 |
| 163 | Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. <i>Cancer Discovery</i> , 2019 , 9, 1228-1247 | 24.4 | 61 |
| 162 | LKB1 and KEAP1/NRF2 Pathways Cooperatively Promote Metabolic Reprogramming with Enhanced Glutamine Dependence in -Mutant Lung Adenocarcinoma. <i>Cancer Research</i> , 2019 , 79, 3251-3267 | 10.1 | 103 |
| 161 | Functional Assessment of Lipoyltransferase-1 Deficiency in Cells, Mice, and Humans. <i>Cell Reports</i> , 2019 , 27, 1376-1386.e6 | 10.6 | 19 |
| 160 | Autophagy Regulation of Metabolism Is Required for CD8 T Cell Anti-tumor Immunity. <i>Cell Reports</i> , 2019 , 27, 502-513.e5 | 10.6 | 76 |
| 159 | Evidence for an alternative fatty acid desaturation pathway increasing cancer plasticity. <i>Nature</i> , 2019 , 566, 403-406 | 50.4 | 187 |
| 158 | MYC promotes tryptophan uptake and metabolism by the kynurenine pathway in colon cancer. <i>Genes and Development</i> , 2019 , 33, 1236-1251 | 12.6 | 65 |
| 157 | p63 and SOX2 Dictate Glucose Reliance and Metabolic Vulnerabilities in Squamous Cell Carcinomas. <i>Cell Reports</i> , 2019 , 28, 1860-1878.e9 | 10.6 | 35 |
| 156 | IMP dehydrogenase-2 drives aberrant nucleolar activity and promotes tumorigenesis in glioblastoma. <i>Nature Cell Biology</i> , 2019 , 21, 1003-1014 | 23.4 | 51 |

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|-----|--|------|------|
| 155 | Systematic Analysis of Gene Expression in Lung Adenocarcinoma and Squamous Cell Carcinoma with a Case Study of and. <i>Cancers</i> , 2019 , 11, | 6.6 | 5 |
| 154 | ALF: an acquired metabolic liability in lung cancer. <i>Cell Research</i> , 2019 , 29, 607-608 | 24.7 | |
| 153 | Induction of LEF1 by MYC activates the WNT pathway and maintains cell proliferation. <i>Cell Communication and Signaling</i> , 2019 , 17, 129 | 7.5 | 15 |
| 152 | Metabolic Profiling Using Stable Isotope Tracing Reveals Distinct Patterns of Glucose Utilization by Physiologically Activated CD8 T Cells. <i>Immunity</i> , 2019 , 51, 856-870.e5 | 32.3 | 122 |
| 151 | Active pyruvate dehydrogenase and impaired gluconeogenesis in orthotopic hepatomas of rats. <i>Metabolism: Clinical and Experimental</i> , 2019 , 101, 153993 | 12.7 | 6 |
| 150 | Molecular Profiling Reveals Unique Immune and Metabolic Features of Melanoma Brain Metastases. <i>Cancer Discovery</i> , 2019 , 9, 628-645 | 24.4 | 124 |
| 149 | Reactive metabolite production is a targetable liability of glycolytic metabolism in lung cancer. <i>Nature Communications</i> , 2019 , 10, 5604 | 17.4 | 25 |
| 148 | Lkb1 deficiency confers glutamine dependency in polycystic kidney disease. <i>Nature Communications</i> , 2018 , 9, 814 | 17.4 | 30 |
| 147 | Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. <i>Nature Medicine</i> , 2018 , 24, 617-627 | 50.5 | 58 |
| 146 | Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. <i>Cell</i> , 2018 , 173, 864-878.e29 | 56.2 | 58 |
| 145 | RIPK1-mediated induction of mitophagy compromises the viability of extracellular-matrix-detached cells. <i>Nature Cell Biology</i> , 2018 , 20, 272-284 | 23.4 | 46 |
| 144 | Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018 , 25, 486-541 | 12.7 | 2160 |
| 143 | Applications of metabolomics to study cancer metabolism. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018 , 1870, 2-14 | 11.2 | 86 |
| 142 | Metabolic strategies of melanoma cells: Mechanisms, interactions with the tumor microenvironment, and therapeutic implications. <i>Pigment Cell and Melanoma Research</i> , 2018 , 31, 11-30 | 4.5 | 88 |
| 141 | Metabolic regulation of transcription through compartmentalized NAD biosynthesis. <i>Science</i> , 2018 , 360, | 33.3 | 111 |
| 140 | Isotope Tracing of Human Clear Cell Renal Cell Carcinomas Demonstrates Suppressed Glucose Oxidation In Vivo. <i>Cell Metabolism</i> , 2018 , 28, 793-800.e2 | 24.6 | 118 |
| 139 | Lipoic acid metabolism and mitochondrial redox regulation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7522-7530 | 5.4 | 99 |
| 138 | Gain-of-function variants in the ODC1 gene cause a syndromic neurodevelopmental disorder associated with macrocephaly, alopecia, dysmorphic features, and neuroimaging abnormalities. <i>American Journal of Medical Genetics, Part A</i> , 2018 , 176, 2554-2560 | 2.5 | 15 |

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| 137 | Transmembrane Protease TMPRSS11B Promotes Lung Cancer Growth by Enhancing Lactate Export and Glycolytic Metabolism. <i>Cell Reports</i> , 2018 , 25, 2223-2233.e6 | 10.6 | 19 |
| 136 | Loss of a Negative Regulator of mTORC1 Induces Aerobic Glycolysis and Altered Fiber Composition in Skeletal Muscle. <i>Cell Reports</i> , 2018 , 23, 1907-1914 | 10.6 | 25 |
| 135 | Inosine Monophosphate Dehydrogenase Dependence in a Subset of Small Cell Lung Cancers. <i>Cell Metabolism</i> , 2018 , 28, 369-382.e5 | 24.6 | 76 |
| 134 | Chronic innate immune activation of TBK1 suppresses mTORC1 activity and dysregulates cellular metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 746-751 | 11.5 | 39 |
| 133 | Lipid sensing by mTOR complexes via synthesis of phosphatidic acid. <i>Journal of Biological Chemistry</i> , 2017 , 292, 6303-6311 | 5.4 | 70 |
| 132 | Understanding the Intersections between Metabolism and Cancer Biology. <i>Cell</i> , 2017 , 168, 657-669 | 56.2 | 971 |
| 131 | Regulation of mitochondrial biogenesis in erythropoiesis by mTORC1-mediated protein translation. <i>Nature Cell Biology</i> , 2017 , 19, 626-638 | 23.4 | 88 |
| 130 | Biomarker Accessible and Chemically Addressable Mechanistic Subtypes of BRAF Melanoma. <i>Cancer Discovery</i> , 2017 , 7, 832-851 | 24.4 | 31 |
| 129 | Cytochrome c Oxidase Activity Is a Metabolic Checkpoint that Regulates Cell Fate Decisions During T Cell Activation and Differentiation. <i>Cell Metabolism</i> , 2017 , 25, 1254-1268.e7 | 24.6 | 83 |
| 128 | CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells. <i>Nature</i> , 2017 , 546, 168-172 | 50.4 | 136 |
| 127 | Using a novel NQO1 bioactivatable drug, beta-lapachone (ARQ761), to enhance chemotherapeutic effects by metabolic modulation in pancreatic cancer. <i>Journal of Surgical Oncology</i> , 2017 , 116, 83-88 | 2.8 | 17 |
| 126 | Oxidation of [U- ¹³ C]glucose in the human brain at 7T under steady state conditions. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 2065-2071 | 4.4 | 20 |
| 125 | Lactate Metabolism in Human Lung Tumors. <i>Cell</i> , 2017 , 171, 358-371.e9 | 56.2 | 568 |
| 124 | The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. <i>Science Advances</i> , 2017 , 3, eaao5268 | 14.3 | 28 |
| 123 | Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. <i>Nature</i> , 2017 , 549, 476-483 | 50.4 | 272 |
| 122 | Engineering approaches to study cancer metabolism. <i>Metabolic Engineering</i> , 2017 , 43, 93 | 9.7 | 2 |
| 121 | The NQO1 bioactivatable drug, lapachone, alters the redox state of NQO1+ pancreatic cancer cells, causing perturbation in central carbon metabolism. <i>Journal of Biological Chemistry</i> , 2017 , 292, 18203-18216 | 5.4 | 116 |
| 120 | Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism. <i>Nature Cell Biology</i> , 2017 , 19, 1027-1036 | 23.4 | 152 |

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|-----|---|------|------|
| 119 | Hypoxia induces heart regeneration in adult mice. <i>Nature</i> , 2017 , 541, 222-227 | 50.4 | 378 |
| 118 | Quantitative metabolic flux analysis reveals an unconventional pathway of fatty acid synthesis in cancer cells deficient for the mitochondrial citrate transport protein. <i>Metabolic Engineering</i> , 2017 , 43, 198-207 | 9.7 | 52 |
| 117 | Analyzing Tumor Metabolism In Vivo. <i>Annual Review of Cancer Biology</i> , 2017 , 1, 99-117 | 13.3 | 26 |
| 116 | Addressing metabolic heterogeneity in clear cell renal cell carcinoma with quantitative magnetic resonance imaging.. <i>Journal of Clinical Oncology</i> , 2017 , 35, 460-460 | 2.2 | |
| 115 | Tetrameric Acetyl-CoA Acetyltransferase 1 Is Important for Tumor Growth. <i>Molecular Cell</i> , 2016 , 64, 859-874 | 17.4 | 42 |
| 114 | Fundamentals of cancer metabolism. <i>Science Advances</i> , 2016 , 2, e1600200 | 14.3 | 1280 |
| 113 | Proliferating Cells Conserve Nitrogen to Support Growth. <i>Cell Metabolism</i> , 2016 , 23, 957-958 | 24.6 | 4 |
| 112 | Cutting Edge: Critical Role of Glycolysis in Human Plasmacytoid Dendritic Cell Antiviral Responses. <i>Journal of Immunology</i> , 2016 , 196, 2004-9 | 5.3 | 63 |
| 111 | Metabolic Heterogeneity in Human Lung Tumors. <i>Cell</i> , 2016 , 164, 681-94 | 56.2 | 593 |
| 110 | TCA Cycle and Mitochondrial Membrane Potential Are Necessary for Diverse Biological Functions. <i>Molecular Cell</i> , 2016 , 61, 199-209 | 17.6 | 269 |
| 109 | Cancer-Specific Production of N-Acetylaspartate via NAT8L Overexpression in Non-Small Cell Lung Cancer and Its Potential as a Circulating Biomarker. <i>Cancer Prevention Research</i> , 2016 , 9, 43-52 | 3.2 | 24 |
| 108 | Mitochondria Coordinate Intracellular Metabolism and Epigenetic Gene Regulation during Erythropoiesis. <i>Blood</i> , 2016 , 128, 1038-1038 | 2.2 | |
| 107 | Meta-analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. <i>EMBO Molecular Medicine</i> , 2016 , 8, 1134-1142 | 12 | 57 |
| 106 | Evidence of Glycolysis Up-Regulation and Pyruvate Mitochondrial Oxidation Mismatch During Mechanical Unloading of the Failing Human Heart: Implications for Cardiac Reloading and Conditioning. <i>JACC Basic To Translational Science</i> , 2016 , 1, 432-444 | 8.7 | 65 |
| 105 | Hepatic gluconeogenesis influences (13)C enrichment in lactate in human brain tumors during metabolism of [1,2-(13)C]acetate. <i>Neurochemistry International</i> , 2016 , 97, 133-6 | 4.4 | 6 |
| 104 | Reductive carboxylation supports redox homeostasis during anchorage-independent growth. <i>Nature</i> , 2016 , 532, 255-8 | 50.4 | 332 |
| 103 | Liposuction: Extracellular Fat Removal Promotes Proliferation. <i>Cell Chemical Biology</i> , 2016 , 23, 431-2 | 8.2 | 2 |
| 102 | Mutations in mitochondrial enzyme GPT2 cause metabolic dysfunction and neurological disease with developmental and progressive features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5598-607 | 11.5 | 32 |

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|-----|---|------|-----|
| 101 | Blocking fatty acid synthesis reduces lung tumor growth in mice. <i>Nature Medicine</i> , 2016 , 22, 1077-1078 | 50.5 | 6 |
| 100 | Glutathione Depletion, Pentose Phosphate Pathway Activation, and Hemolysis in Erythrocytes Protecting Cancer Cells from Vitamin C-induced Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22861-22867 | 5.4 | 29 |
| 99 | Fatty Acid Oxidation Mediated by Acyl-CoA Synthetase Long Chain 3 Is Required for Mutant KRAS Lung Tumorigenesis. <i>Cell Reports</i> , 2016 , 16, 1614-1628 | 10.6 | 123 |
| 98 | A roadmap for interpreting (13)C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015 , 34, 189-201 | 11.4 | 368 |
| 97 | Metabolic dysregulation in monogenic disorders and cancer - finding method in madness. <i>Nature Reviews Cancer</i> , 2015 , 15, 440-8 | 31.3 | 66 |
| 96 | Conditions for (13)C NMR detection of 2-hydroxyglutarate in tissue extracts from isocitrate dehydrogenase-mutated gliomas. <i>Analytical Biochemistry</i> , 2015 , 481, 4-6 | 3.1 | 8 |
| 95 | D2HGDH regulates alpha-ketoglutarate levels and dioxygenase function by modulating IDH2. <i>Nature Communications</i> , 2015 , 6, 7768 | 17.4 | 47 |
| 94 | Metabolic pathways promoting cancer cell survival and growth. <i>Nature Cell Biology</i> , 2015 , 17, 351-9 | 23.4 | 785 |
| 93 | Metabolism: Growth in the fat lane. <i>Nature</i> , 2015 , 520, 165-6 | 50.4 | 3 |
| 92 | Metabolic reprogramming induces resistance to anti-NOTCH1 therapies in T cell acute lymphoblastic leukemia. <i>Nature Medicine</i> , 2015 , 21, 1182-9 | 50.5 | 139 |
| 91 | PEPCK Coordinates the Regulation of Central Carbon Metabolism to Promote Cancer Cell Growth. <i>Molecular Cell</i> , 2015 , 60, 571-83 | 17.6 | 126 |
| 90 | The cancer cell @energy grid@TGF- β signaling coordinates @metabolism for migration. <i>Molecular and Cellular Oncology</i> , 2015 , 2, e981994 | 1.2 | 15 |
| 89 | 6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. <i>Nature Cell Biology</i> , 2015 , 17, 1484-96 | 23.4 | 153 |
| 88 | Targeting glutamine metabolism sensitizes pancreatic cancer to PARP-driven metabolic catastrophe induced by @lapachone. <i>Cancer & Metabolism</i> , 2015 , 3, 12 | 5.4 | 83 |
| 87 | A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. <i>Nature Communications</i> , 2015 , 6, 8524 | 17.4 | 57 |
| 86 | Oxidative stress inhibits distant metastasis by human melanoma cells. <i>Nature</i> , 2015 , 527, 186-91 | 50.4 | 681 |
| 85 | Tumor-selective use of DNA base excision repair inhibition in pancreatic cancer using the NQO1 bioactivatable drug, @lapachone. <i>Scientific Reports</i> , 2015 , 5, 17066 | 4.9 | 40 |
| 84 | In vivo analysis of lung cancer metabolism: nothing like the real thing. <i>Journal of Clinical Investigation</i> , 2015 , 125, 495-7 | 15.9 | 13 |

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|----|---|------|-----|
| 83 | From "N of 1" to N of more. <i>Journal of Physical Education and Sports Management</i> , 2015 , 1, a000521 | 2.8 | 2 |
| 82 | Metabolic plasticity maintains proliferation in pyruvate dehydrogenase deficient cells. <i>Cancer & Metabolism</i> , 2015 , 3, 7 | 5.4 | 38 |
| 81 | Hyperpolarized (13)C Magnetic Resonance and Its Use in Metabolic Assessment of Cultured Cells and Perfused Organs. <i>Methods in Enzymology</i> , 2015 , 561, 73-106 | 1.7 | 28 |
| 80 | Metformin Antagonizes Cancer Cell Proliferation by Suppressing Mitochondrial-Dependent Biosynthesis. <i>PLoS Biology</i> , 2015 , 13, e1002309 | 9.7 | 142 |
| 79 | Hypoxic metabolism in human hematopoietic stem cells. <i>Cell and Bioscience</i> , 2015 , 5, 39 | 9.8 | 47 |
| 78 | Mechanism by which a recently discovered allosteric inhibitor blocks glutamine metabolism in transformed cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 394-9 | 11.5 | 52 |
| 77 | Glutamate dehydrogenase 1 signals through antioxidant glutathione peroxidase 1 to regulate redox homeostasis and tumor growth. <i>Cancer Cell</i> , 2015 , 27, 257-70 | 24.3 | 194 |
| 76 | LKB1 loss promotes endometrial cancer progression via CCL2-dependent macrophage recruitment. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4063-76 | 15.9 | 47 |
| 75 | Quantitative Proteomic and Transcriptomic Analysis Reveals Post-Transcriptional Regulation of Mitochondrial Biogenesis during Erythropoiesis. <i>Blood</i> , 2015 , 126, 47-47 | 2.2 | |
| 74 | Both GLS silencing and GLS2 overexpression synergize with oxidative stress against proliferation of glioma cells. <i>Journal of Molecular Medicine</i> , 2014 , 92, 277-90 | 5.5 | 58 |
| 73 | A nanoparticle-based strategy for the imaging of a broad range of tumours by nonlinear amplification of microenvironment signals. <i>Nature Materials</i> , 2014 , 13, 204-12 | 27 | 590 |
| 72 | A role for the mitochondrial pyruvate carrier as a repressor of the Warburg effect and colon cancer cell growth. <i>Molecular Cell</i> , 2014 , 56, 400-413 | 17.6 | 221 |
| 71 | Simultaneous steady-state and dynamic 13C NMR can differentiate alternative routes of pyruvate metabolism in living cancer cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 6212-24 | 5.4 | 44 |
| 70 | Glutamine oxidation maintains the TCA cycle and cell survival during impaired mitochondrial pyruvate transport. <i>Molecular Cell</i> , 2014 , 56, 414-424 | 17.6 | 376 |
| 69 | Analysis of hypoxia-induced metabolic reprogramming. <i>Methods in Enzymology</i> , 2014 , 542, 425-55 | 1.7 | 46 |
| 68 | Inhibition of cancer cell proliferation by PPAR α s mediated by a metabolic switch that increases reactive oxygen species levels. <i>Cell Metabolism</i> , 2014 , 20, 650-61 | 24.6 | 88 |
| 67 | Lysine acetylation activates 6-phosphogluconate dehydrogenase to promote tumor growth. <i>Molecular Cell</i> , 2014 , 55, 552-65 | 17.6 | 78 |
| 66 | Q&A: Targeting metabolism to diagnose and treat cancer. <i>Cancer & Metabolism</i> , 2014 , 2, 5 | 5.4 | 3 |

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|----|--|------|-----|
| 65 | A mitochondrial RNAi screen defines cellular bioenergetic determinants and identifies an adenylate kinase as a key regulator of ATP levels. <i>Cell Reports</i> , 2014 , 7, 907-17 | 10.6 | 50 |
| 64 | Oxidation of alpha-ketoglutarate is required for reductive carboxylation in cancer cells with mitochondrial defects. <i>Cell Reports</i> , 2014 , 7, 1679-1690 | 10.6 | 216 |
| 63 | Profilin 1 is essential for retention and metabolism of mouse hematopoietic stem cells in bone marrow. <i>Blood</i> , 2014 , 123, 992-1001 | 2.2 | 32 |
| 62 | Real-time detection of hepatic gluconeogenic and glycogenolytic states using hyperpolarized [2-13C]dihydroxyacetone. <i>Journal of Biological Chemistry</i> , 2014 , 289, 35859-67 | 5.4 | 45 |
| 61 | MCT4 defines a glycolytic subtype of pancreatic cancer with poor prognosis and unique metabolic dependencies. <i>Cell Reports</i> , 2014 , 9, 2233-49 | 10.6 | 130 |
| 60 | Acetate is a bioenergetic substrate for human glioblastoma and brain metastases. <i>Cell</i> , 2014 , 159, 1603-1612 | 16.2 | 457 |
| 59 | MAVS, cGAS, and endogenous retroviruses in T-independent B cell responses. <i>Science</i> , 2014 , 346, 1486-93 | 33.3 | 87 |
| 58 | The gut commensal <i>Bacteroides thetaiotaomicron</i> exacerbates enteric infection through modification of the metabolic landscape. <i>Cell Host and Microbe</i> , 2014 , 16, 759-69 | 23.4 | 171 |
| 57 | In vivo detection of citrate in brain tumors by 1H magnetic resonance spectroscopy at 3T. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 316-23 | 4.4 | 8 |
| 56 | A novel radiotracer to image glycogen metabolism in tumors by positron emission tomography. <i>Cancer Research</i> , 2014 , 74, 1319-28 | 10.1 | 30 |
| 55 | Role of PFKFB3-driven glycolysis in vessel sprouting. <i>Cell</i> , 2013 , 154, 651-63 | 56.2 | 798 |
| 54 | Systematic identification of molecular subtype-selective vulnerabilities in non-small-cell lung cancer. <i>Cell</i> , 2013 , 155, 552-66 | 56.2 | 129 |
| 53 | AMPK is a negative regulator of the Warburg effect and suppresses tumor growth in vivo. <i>Cell Metabolism</i> , 2013 , 17, 113-24 | 24.6 | 593 |
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