

# Complex I inhibitor of oxidative phosphorylation in advanced myeloid leukemia: phase I trials

Nature Medicine

29, 115-126

DOI: [10.1038/s41591-022-02103-8](https://doi.org/10.1038/s41591-022-02103-8)

Citation Report

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Time to hit pause on mitochondria-targeting cancer therapies. <i>Nature Medicine</i> , 2023, 29, 29-30.   | 30.7 | 21        |
| 2  | OXPHOS inhibitors, metabolism and targeted therapies in cancer. <i>Biochemical Pharmacology</i> , 2023, 211, 115531.  | 4.4  | 2         |
| 4  | From mitochondria to cells to humans: Targeting bioenergetics in aging and disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2023, 157, 106391.  | 2.8  | 2         |
| 6  | What is cancer metabolism?. <i>Cell</i> , 2023, 186, 1670-1688.   | 28.9 | 41        |
| 7  | Targeting Mitochondrial Metabolic Reprogramming as a Potential Approach for Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4954.  | 4.1  | 8         |
| 8  | Mitochondrial redox adaptations enable alternative aspartate synthesis in SDH-deficient cells. <i>ELife</i> , 0, 12, .  | 6.0  | 8         |
| 9  | Targeting Mitochondria with ClpP Agonists as a Novel Therapeutic Opportunity in Breast Cancer. <i>Cancers</i> , 2023, 15, 1936.   | 3.7  | 6         |
| 10 | Crosstalk between oxidative phosphorylation and immune escape in cancer: a new concept of therapeutic targets selection. <i>Cellular Oncology (Dordrecht)</i> , 2023, 46, 847-865.  | 4.4  | 8         |
| 11 | Integrated bioinformatic analysis of mitochondrial metabolism-related genes in acute myeloid leukemia. <i>Frontiers in Immunology</i> , 0, 14, .  | 4.8  | 1         |
| 12 | Oxidative stress enhances the therapeutic action of a respiratory inhibitor in <sc>MYC</sc>-driven lymphoma. <i>EMBO Molecular Medicine</i> , 2023, 15, .   | 6.9  | 4         |
| 13 | Alanine supplementation exploits glutamine dependency induced by SMARCA4/2-loss. <i>Nature Communications</i> , 2023, 14, .   | 12.8 | 2         |
| 16 | Redox-crippled MitoQ potently inhibits breast cancer and glioma cell proliferation: A negative control for verifying the antioxidant mechanism of MitoQ in cancer and other oxidative pathologies. <i>Free Radical Biology and Medicine</i> , 2023, 205, 175-187. | 2.9  | 1         |
| 17 | Synthesis and biological evaluation of novel pyrazole amides as potent mitochondrial complex I inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2023, 258, 115576.  | 5.5  | 0         |
| 18 | Rethinking our approach to cancer metabolism to deliver patient benefit. <i>British Journal of Cancer</i> , 0, , .  | 6.4  | 0         |
| 20 | Lactic acidosis switches cancer cells from dependence on glycolysis to OXPHOS and renders them highly sensitive to OXPHOS inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 2023, 671, 46-57.  | 2.1  | 1         |
| 21 | First-in-Class NADH/Ubiquinone Oxidoreductase Core Subunit S7 (NDUFS7) Antagonist for the Treatment of Pancreatic Cancer. <i>ACS Pharmacology and Translational Science</i> , 0, , .  | 4.9  | 0         |
| 22 | Respiratory complex I in mitochondrial membrane catalyzes oversized ubiquinones. <i>Journal of Biological Chemistry</i> , 2023, , 105001.   | 3.4  | 0         |
| 23 | Compensatory cross-talk between autophagy and glycolysis regulates senescence and stemness in heterogeneous glioblastoma tumor subpopulations. <i>Acta Neuropathologica Communications</i> , 2023, 11, .  | 5.2  | 7         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 24 | Oxidative phosphorylation is a metabolic vulnerability of endocrine therapy and palbociclib resistant metastatic breast cancers. <i>Nature Communications</i> , 2023, 14, .   | 12.8 | 14        |
| 25 | Combined GLUT1 and OXPHOS inhibition eliminates acute myeloid leukemia cells by restraining their metabolic plasticity. <i>Blood Advances</i> , 2023, 7, 5382-5395.   | 5.2  | 2         |
| 26 | Therapeutic targeting of leukemia stem cells in acute myeloid leukemia. <i>Frontiers in Oncology</i> , 0, 13, .   | 2.8  | 0         |
| 27 | Emerging therapies in cancer metabolism. <i>Cell Metabolism</i> , 2023, 35, 1283-1303.  | 16.2 | 12        |
| 28 | Cancer Metabolism Historical Perspectives: A Chronicle of Controversies and Consensus. <i>Cold Spring Harbor Perspectives in Medicine</i> , 0, , a041530.   | 6.2  | 0         |
| 29 | Targeting mitochondrial oxidative phosphorylation: lessons, advantages, and opportunities. <i>British Journal of Cancer</i> , 0, , .  | 6.4  | 2         |
| 30 | Canagliflozin mediates tumor suppression alone and in combination with radiotherapy in non-small cell lung cancer (NSCLC) through inhibition of HIF1 $\alpha$ . <i>Molecular Oncology</i> , 2023, 17, 2235-2256.  | 4.6  | 2         |
| 31 | Preventing mitochondrial reverse electron transport as a strategy for cardioprotection. <i>Basic Research in Cardiology</i> , 2023, 118, .  | 5.9  | 4         |
| 32 | Multifaceted roles of mitochondrial dysfunction in diseases: from powerhouses to saboteurs. <i>Archives of Pharmacal Research</i> , 2023, 46, 723-743.  | 6.3  | 0         |
| 33 | Targeting chemoresistance and mitochondria-dependent metabolic reprogramming in acute myeloid leukemia. <i>Frontiers in Oncology</i> , 0, 13, .   | 2.8  | 0         |
| 34 | Bioenergetic alteration in gastrointestinal cancers: The good, the bad and the ugly. <i>World Journal of Gastroenterology</i> , 0, 29, 4499-4527.   | 3.3  | 1         |
| 35 | Rewiring of mitochondrial metabolism in therapy-resistant cancers: permanent and plastic adaptations. <i>Frontiers in Cell and Developmental Biology</i> , 0, 11, .   | 3.7  | 5         |
| 36 | OXPHOS-targeting drugs in oncology: new perspectives. <i>Expert Opinion on Therapeutic Targets</i> , 2023, 27, 939-952.   | 3.4  | 1         |
| 37 | Pan-tissue mitochondrial phenotyping reveals lower OXPHOS expression and function across cancer types. <i>Scientific Reports</i> , 2023, 13, .  | 3.3  | 0         |
| 39 | MitoTam-01 Trial: Mitochondrial Targeting as Plausible Approach to Cancer Therapy. Comment on Yap et al. Complex I Inhibitor of Oxidative Phosphorylation in Advanced Solid Tumors and Acute Myeloid Leukemia: Phase I Trials. <i>Nat. Med.</i> 2023, 29, 115-126. <i>Cancers</i> , 2023, 15, 4476. | 3.7  | 1         |
| 40 | EGR1-mediated metabolic reprogramming to oxidative phosphorylation contributes to ibrutinib resistance in B cell lymphoma. <i>Blood</i> , 0, , .  | 1.4  | 1         |
| 41 | Mitochondrially targeted tamoxifen as anticancer therapy: case series of patients with renal cell carcinoma treated in a phase I/Ib clinical trial. <i>Therapeutic Advances in Medical Oncology</i> , 2023, 15, .   | 3.2  | 0         |
| 42 | Distinct Mechanisms of Resistance to CDK4/6 Inhibitors Require Specific Subsequent Treatment Strategies: One Size Does Not Fit All. <i>Cancer Research</i> , 2023, 83, 3165-3167.   | 0.9  | 0         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 44 | MYC is a regulator of androgen receptor inhibition-induced metabolic requirements in prostate cancer. <i>Cell Reports</i> , 2023, 42, 113221.                                      | 6.4  | 0         |
| 45 | Selective activator of human ClpP triggers cell cycle arrest to inhibit lung squamous cell carcinoma. <i>Nature Communications</i> , 2023, 14, .                                   | 12.8 | 1         |
| 46 | Diffuse Gliomas with FGFR3-TACC3 Fusions: Oncogenic Mechanisms, Hallmarks, and Therapeutic Perspectives. <i>Cancers</i> , 2023, 15, 5555.  | 3.7  | 0         |
| 47 | Chronic lymphocytic leukemia patient-derived xenografts recapitulate clonal evolution to Richter transformation. <i>Leukemia</i> , 2024, 38, 557-569.                              | 7.2  | 0         |
| 48 | The cross-talk between macrophages and tumor cells as a target for cancer treatment. <i>Frontiers in Oncology</i> , 0, 13, .   | 2.8  | 0         |
| 49 | Regulation of leukemogenesis via redox metabolism. <i>Trends in Cell Biology</i> , 2023, , .   | 7.9  | 0         |
| 50 | Reductive stress in cancer: coming out of the shadows. <i>Trends in Cancer</i> , 2024, 10, 103-112.  | 7.4  | 1         |
| 51 | Phase Ib Trial of Phenformin in Patients with V600-mutated Melanoma Receiving Dabrafenib and Trametinib. <i>Cancer Research Communications</i> , 2023, 3, 2447-2454.               | 1.7  | 0         |
| 52 | MYC-driven increases in mitochondrial DNA copy number occur early and persist throughout prostatic cancer progression. <i>JCI Insight</i> , 0, , .                                 | 5.0  | 0         |
| 53 | Integrative multiomics enhancer activity profiling identifies therapeutic vulnerabilities in cholangiocarcinoma of different etiologies. <i>Gut</i> , 0, , gutjnl-2023-330483.     | 12.1 | 4         |
| 54 | Targeting Metabolic Vulnerabilities to Overcome Prostate Cancer Resistance: Dual Therapy with Apalutamide and Complex I Inhibition. <i>Cancers</i> , 2023, 15, 5612.               | 3.7  | 0         |
| 56 | Targeting S100A9 protein affects mTOR-ER stress signaling and increases venetoclax sensitivity in Acute Myeloid Leukemia. <i>Blood Cancer Journal</i> , 2023, 13, .                | 6.2  | 0         |
| 58 | Reductive carboxylation of glutamine as a potential target in acute myeloid leukemia. <i>Oncotarget</i> , 2023, 14, 947-948.   | 1.8  | 0         |
| 59 | <i>IDH1</i>-Mutant Preleukemic Hematopoietic Stem Cells Can Be Eliminated by Inhibition of Oxidative Phosphorylation. <i>Blood Cancer Discovery</i> , 2024, 5, 114-131.            | 5.0  | 1         |
| 61 | UCP2 and pancreatic cancer: conscious uncoupling for therapeutic effect. <i>Cancer and Metastasis Reviews</i> , 0, , .   | 5.9  | 0         |
| 62 | Targeting cancer and immune cell metabolism with the complex I inhibitors metformin and IACS&#10759. <i>Molecular Oncology</i> , 0, , .  | 4.6  | 1         |
| 63 | Antitumour effect of the mitochondrial complex III inhibitor Atovaquone in combination with anti-PD-L1 therapy in mouse cancer models. <i>Cell Death and Disease</i> , 2024, 15, . | 6.3  | 0         |
| 66 | Metabolic alterations in hereditary and sporadic renal cell carcinoma. <i>Nature Reviews Nephrology</i> , 2024, 20, 233-250.   | 9.6  | 0         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 67 | Molecular and cellular mechanisms underlying the failure of mitochondrial metabolism drugs in cancer clinical trials. <i>Journal of Clinical Investigation</i> , 2024, 134, .            | 8.2  | 0         |
| 68 | Deoxycytidine kinase inactivation enhances gemcitabine resistance and sensitizes mitochondrial metabolism interference in pancreatic cancer. <i>Cell Death and Disease</i> , 2024, 15, . | 6.3  | 0         |
| 69 | SLC25A51 decouples the mitochondrial NAD <sup>+</sup> /NADH ratio to control proliferation of AML cells. <i>Cell Metabolism</i> , 2024, 36, 808-821.e6.                                  | 16.2 | 0         |
| 70 | Metabolic reprogramming in the CLL TME; potential for new therapeutic targets. <i>Seminars in Hematology</i> , 2024, , .   | 3.4  | 0         |
| 71 | Oxidative phosphorylation is a pivotal therapeutic target of fibrodysplasia ossificans progressiva. <i>Life Science Alliance</i> , 2024, 7, e202302219.                                  | 2.8  | 0         |
| 72 | Altered Oxidative Phosphorylation Confers Vulnerability on <i>IDH1</i> -Mutant Leukemia Cells: Is This Therapeutically Tractable?. <i>Blood Cancer Discovery</i> , 2024, 5, 83-85.       | 5.0  | 0         |
| 73 | Treatment of Thoracic SMARCA4-Deficient Undifferentiated Tumors: Where We Are and Where We Will Go. <i>International Journal of Molecular Sciences</i> , 2024, 25, 3237.                 | 4.1  | 0         |
| 74 | Unlocking potential: the role of the electron transport chain in immunometabolism. <i>Trends in Immunology</i> , 2024, 45, 259-273.  | 6.8  | 0         |