

Resource Summary Report

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University of Mississippi Medical Center Mitochondrial Research Core Facility

RRID:SCR_028584

Type: Tool

Proper Citation

University of Mississippi Medical Center Mitochondrial Research Core Facility
(RRID:SCR_028584)

Resource Information

URL:

<https://umc.edu/som/Departments%20and%20Offices/SOM%20Departments/Pharmacology%20and%20Research-Core.html>

Proper Citation: University of Mississippi Medical Center Mitochondrial Research Core Facility (RRID:SCR_028584)

Description: Core provides specialized expertise, instrumentation, and technical support for assessment of mitochondrial function in cells, tissues, and isolated mitochondria. Provides standardized mitochondrial isolation, experimental design consultation, assay optimization, data analysis, and interpretation. Services include high-resolution respirometry using the Oroboros O2k-FluoRespirometer, simultaneous measurement of oxygen consumption and reactive oxygen species production, mitochondrial respiratory control and coupling analyses, electron transport system complex activity assays, citrate synthase activity, mitochondrial calcium handling, and assessment of mitochondrial content and oxidative stress. Studies can be performed using isolated mitochondria, permeabilized tissue fibers, tissue homogenates, and intact cells, depending on the scientific question and sample availability. Core also assists with protocol development, selection of normalization strategies, troubleshooting, training, and preparation of methods and data for grants, presentations, and publications.

Synonyms: , University of Mississippi Medical Center (UMMC) Mitochondrial Research Core, UMMC Mitochondrial Research Core

Resource Type: access service resource, core facility, service resource

Keywords: ABRF, assessment of mitochondrial function in cells, tissues, mitochondrial isolation, experimental design consultation, assay optimization, data analysis and interpretation,

Availability: Open

Resource Name: University of Mississippi Medical Center Mitochondrial Research Core Facility

Resource ID: SCR_028584

Alternate IDs: ABRF_6000

Alternate URLs: https://coremarketplace.org/RRID:SCR_028584/?citation=1

Record Creation Time: 20260619T043007+0000

Record Last Update: 20260829T183533+0000

Ratings and Alerts

No rating or validation information has been found for University of Mississippi Medical Center Mitochondrial Research Core Facility.

No alerts have been found for University of Mississippi Medical Center Mitochondrial Research Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.