MITOCHONDRIAL FUNCTION AND IN VIVO IMAGING CORE VOUCHER ANNOUNCEMENT

CPVB
CardioPulmonary Vascular Biology
COBRE

APPLICATION DEADLINES:
SEPTEMBER 8, 2026
JANUARY 15, 2027

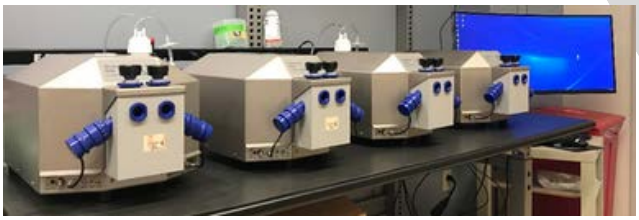
EXPLORE SPECIALIZED SERVICES WITH OUR CORE

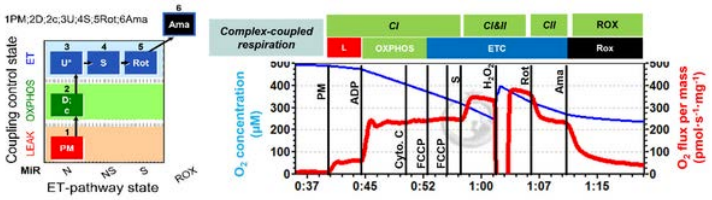
SERVICES CHOOSE ONE FOR VOUCHER APPLICATION

High-Resolution O2k-FluoRespirometers (Oroboros) - voucher covers 75% of requested amount for new users, 50% for returning users

- Allows the measurement of respiration at controlled oxygen levels with unique signal stability and high resolution
- Real-time monitoring of oxygen consumption in samples including:
  - Isolated mitochondria
  - Permeabilized tissues (e.g., muscle fibers)
  - Permeabilized cells
  - Living cells
  - Tissue Slices
- Substrate-Uncoupler-Inhibitor Titration (SUIT) Protocol

OROBOROS





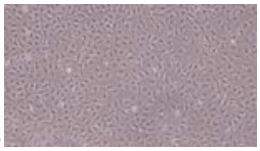
Seahorse XF Pro Analyzer - voucher covers 75% of requested amount for new users, 50% for returning users

- Measures real time oxygen consumption rate and extracellular acidification rate
- Measurements provide a systems-level view of cellular metabolic function
- **96-well plate format** accommodates many conditions in a single run, flexible assay design, dose-response studies, and screening
- Traditional **2D** and **3D** spheroids now available

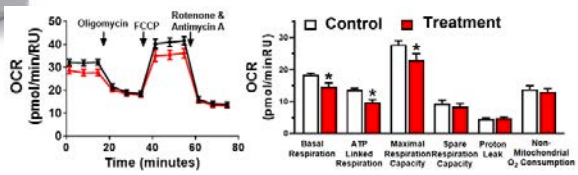
SEAHORSE XF PRO ANALYZER



2-D CULTURE



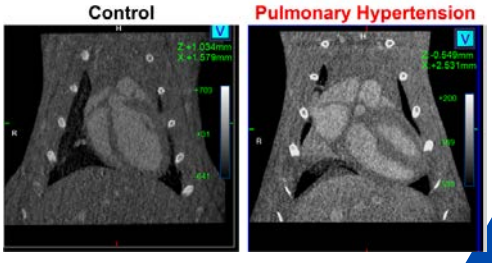
3-D CULTURE



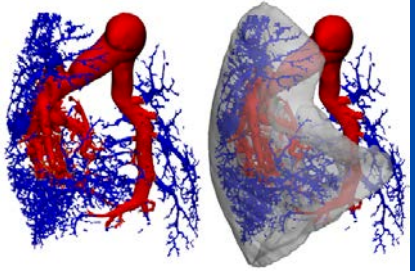
Micro-CT - voucher covers 75% of requested amount

- Micro-CT heart images for cardiac function assessment
- Micro-CT Lung Images for Computational Simulations
- Focus: Heart and Lung

MICRO-CT



3D RECONSTRUCTION OF PULMONARY ARTERIAL VASCULATURE



REACH OUT TO VALERIA_ZARATE@BROWN.EDU FOR CONSULT BEFORE APPLYING*
HTTPS://CPVB.ORG/SERVICE-CORES/VOUCHER-APPLICATION/

FEATURED SERVICES ARE ELLIGIBLE FOR THIS VOUCHER. VISIT OUR WEBSITE FOR A FULL LIST OF AVAILABLE SERVICES

OSRI
OCEAN STATE RESEARCH INSTITUTE