

# Resource Summary Report

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## Medical College of Wisconsin Cancer Center Translational Metabolomics Shared Resource, Redox and Bioenergetics Core Facility

RRID:SCR\_027984

Type: Tool

### Proper Citation

Medical College of Wisconsin Cancer Center Translational Metabolomics Shared Resource, Redox and Bioenergetics Core Facility (RRID:SCR\_027984)

### Resource Information

**URL:** <https://cancer.mcw.edu/researchers-and-clinicians/shared-resources/translational-metabolomics-shared-resource-tramsr>

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**Description:** Redox and Bioenergetics core provides instrumentation, cutting-edge techniques, and expertise dedicated to investigating cancer cell metabolism and redox signaling, and to design custom probes for reactive oxygen species (ROS) for MCWCC members.

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

**Keywords:** ABRF, Redox and Bioenergetics, investigating cancer cell metabolism, redox signaling, design custom probes for reactive oxygen species,

**Resource Name:** Medical College of Wisconsin Cancer Center Translational Metabolomics Shared Resource, Redox and Bioenergetics Core Facility

**Resource ID:** SCR\_027984

**Alternate IDs:** ABRF\_5779

**Alternate URLs:** [https://coremarketplace.org/RRID:SCR\\_027984/?citation=1](https://coremarketplace.org/RRID:SCR_027984/?citation=1)

**Record Creation Time:** 20260218T060348+0000

**Record Last Update:** 20260912T200540+0000

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## Ratings and Alerts

No rating or validation information has been found for Medical College of Wisconsin Cancer Center Translational Metabolomics Shared Resource, Redox and Bioenergetics Core Facility.

No alerts have been found for Medical College of Wisconsin Cancer Center Translational Metabolomics Shared Resource, Redox and Bioenergetics Core Facility.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 74 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [SPARC SAWG](#) .

Grzelakowska A, et al. (2026) Toward Specific Detection of Peroxynitrite? Intramolecular Cyclization of Boronobenzylated Pyridinium Probe in Chemical and Cellular Systems. *Chemical research in toxicology*, 39(1), 49.

Toriola MA, et al. (2026) Genetic depletion of the early autophagy protein ATG13 impairs mitochondrial energy metabolism, augments oxidative stress, induces the polarization of macrophages to the M1 inflammatory mode, and compromises myelin integrity in skeletal muscle. *Inflammation research : official journal of the European Histamine Research Society ... [et al.]*, 75(1), 26.

Grzelakowska A, et al. (2025) Phenyl Radical-Mediated Fluorogenic Cyclization for Specific Detection of Peroxynitrite. *Analytical chemistry*, 97(13), 7299.

Zhang J, et al. (2025) Oxidized LDL stimulates PKM2-mediated mtROS production and phagocytosis. *Journal of lipid research*, 66(5), 100809.

Siarkiewicz P, et al. (2024) Evaluation of a novel pyridinium cation-linked styryl-based boronate probe for the detection of selected inflammation-related oxidants. *Free radical biology & medicine*, 212, 255.

Huang L, et al. (2023) Nitric oxide synthase and reduced arterial tone contribute to arteriovenous malformation. *Science advances*, 9(21), eade7280.

Juric M, et al. (2023) Novel NADPH Oxidase-2 Inhibitors as Potential Anti-Inflammatory and Neuroprotective Agents. *Antioxidants (Basel, Switzerland)*, 12(9).

Uche N, et al. (2023) Carvedilol Phenocopies PGC-1 $\beta$  Overexpression to Alleviate Oxidative Stress, Mitochondrial Dysfunction and Prevent Doxorubicin-Induced Toxicity in Human iPSC-Derived Cardiomyocytes. *Antioxidants (Basel, Switzerland)*, 12(8).

Pillai SS, et al. (2023) Contribution of adipocyte Na/K-ATPase  $\alpha$ 1/CD36 signaling induced exosome secretion in response to oxidized LDL. *Frontiers in cardiovascular medicine*, 10, 1046495.

Patel JJ, et al. (2023) High-Dose IV Hydroxocobalamin (Vitamin B12) in Septic Shock: A Double-Blind, Allocation-Concealed, Placebo-Controlled Single-Center Pilot Randomized Controlled Trial (The Intravenous Hydroxocobalamin in Septic Shock Trial). *Chest*, 163(2), 303.

Grzelakowska A, et al. (2022) Water-soluble cationic boronate probe based on coumarin imidazolium scaffold: Synthesis, characterization, and application to cellular peroxynitrite detection. *Free radical biology & medicine*, 179, 34.

Cheng Y, et al. (2022) FOXM1 regulates glycolysis and energy production in multiple myeloma. *Oncogene*, 41(32), 3899.

Nord JA, et al. (2022) N-terminal BET bromodomain inhibitors disrupt a BRD4-p65 interaction and reduce inducible nitric oxide synthase transcription in pancreatic  $\beta$ -cells. *Frontiers in endocrinology*, 13, 923925.

Dickinson Q, et al. (2022) Multi-omic integration by machine learning (MIMaL). *Bioinformatics (Oxford, England)*, 38(21), 4908.

Ortiz de Choudens S, et al. (2022) Lisinopril Mitigates Radiation-Induced Mitochondrial Defects in Rat Heart and Blood Cells. *Frontiers in oncology*, 12, 828177.

AbuEid M, et al. (2022) Fluorinated triphenylphosphonium analogs improve cell selectivity and in vivo detection of mito-metformin. *iScience*, 25(12), 105670.

Medhora M, et al. (2021) Radiation Increases Bioavailability of Lisinopril, a Mitigator of Radiation-Induced Toxicities. *Frontiers in pharmacology*, 12, 646076.

Zielonka J, et al. (2021) Identification of Peroxynitrite by Profiling Oxidation and Nitration Products from Mitochondria-Targeted Arylboronic Acid. *Methods in molecular biology (Clifton, N.J.)*, 2275, 315.

Modrzejewska J, et al. (2021) Novel Boronate Probe Based on 3-Benzothiazol-2-yl-7-hydroxy-chromen-2-one for the Detection of Peroxynitrite and Hypochlorite. *Molecules (Basel, Switzerland)*, 26(19).

Grzelakowska A, et al. (2021) Two-photon fluorescent probe for cellular peroxynitrite: Fluorescence detection, imaging, and identification of peroxynitrite-specific products. *Free radical biology & medicine*, 169, 24.