

Resource Summary Report

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University of Tennessee Knoxville Biological Mass Spectrometry Core Facility

RRID:SCR_021368

Type: Tool

Proper Citation

University of Tennessee Knoxville Biological Mass Spectrometry Core Facility
(RRID:SCR_021368)

Resource Information

URL: <https://research.utk.edu/research-facilities/core-facilities/bmsc/>

Proper Citation: University of Tennessee Knoxville Biological Mass Spectrometry Core Facility (RRID:SCR_021368)

Description: Mass Spectrometry Core provides metabolomics, lipidomics, and small molecule analyses to researchers both on campus and in our affiliated local and other institutions.

Abbreviations: BMSC

Synonyms: , UTK Biological Mass Spectrometry Core, University of Tennessee Knoxville Biological Mass Spectrometry Core BMSC

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

Keywords: Metabolomics, Mass Spectrometry, lipidomics, small molecule analyses, ABRF

Availability: Open

Resource Name: University of Tennessee Knoxville Biological Mass Spectrometry Core Facility

Resource ID: SCR_021368

Alternate IDs: ABRF_687

Alternate URLs: <https://coremarketplace.org/?FacilityID=687>

Record Creation Time: 20220129T080355+0000

Ratings and Alerts

No rating or validation information has been found for University of Tennessee Knoxville Biological Mass Spectrometry Core Facility.

No alerts have been found for University of Tennessee Knoxville Biological Mass Spectrometry Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Pokorzynski ND, et al. (2025) The master virulence regulator PhoP dictates carbon metabolism by controlling cyclic AMP synthesis in Salmonella. PLoS biology, 23(12), e3003566.

Schnizlein MK, et al. (2025) Non-redundant cardiolipin synthases shape membrane composition and support stress resilience in Bacteroides fragilis. bioRxiv : the preprint server for biology.

Kumar A, et al. (2025) Proximity to a hazardous waste thermal treatment facility alters human physiology: a community-driven pilot study. Experimental biology and medicine (Maywood, N.J.), 250, 10655.

Christopher CJ, et al. (2025) Specific Bacterial Taxa and Their Metabolite, DHPS, May Be Linked to Gut Dyshomeostasis in Patients with Alzheimer's Disease, Parkinson's Disease, and Amyotrophic Lateral Sclerosis. Nutrients, 17(9).

Palfrey HA, et al. (2024) Adverse cardiac events of hypercholesterolemia are enhanced by sitagliptin in sprague dawley rats. Nutrition & metabolism, 21(1), 54.

Zaparte A, et al. (2024) Effects of E-Cigarettes on the Lung and Systemic Metabolome in People with HIV. Metabolites, 14(8).

Ammar S, et al. (2024) Metabolic Profile of Histomonas meleagridis in Dwyer's Media with and Without Rice Starch. Metabolites, 14(12).

Marrella M, et al. (2024) Higher abundance of 2-dehydro-d-gluconate in the plasma of sub-fertile or infertile Bos taurus heifers. Journal of animal science, 102.

Wang H, et al. (2024) A small molecule macrophage migration inhibitory factor agonist ameliorates age-related myocardial intolerance to ischemia-reperfusion insults via

metabolic regulation. *Metabolism: clinical and experimental*, 153, 155792.

Ramser A, et al. (2023) Bone Metabolite Profile Differs between Normal and Femur Head Necrosis (FHN/BCO)-Affected Broilers: Implications for Dysregulated Metabolic Cascades in FHN Pathophysiology. *Metabolites*, 13(5).

Linden MA, et al. (2023) Pharmacological inhibition of lipolysis prevents adverse metabolic outcomes during glucocorticoid administration. *Molecular metabolism*, 74, 101751.

Mullis MM, et al. (2023) Microbial survival mechanisms within serpentinizing Mariana forearc sediments. *FEMS microbiology ecology*, 99(2).

Matheny PB, et al. (2023) A phylogeny for North American *Mallocybe* (Inocybaceae) and taxonomic revision of eastern North American taxa. *Fungal systematics and evolution*, 12, 153.

Hessock EA, et al. (2023) Metabolite abundance in bovine preovulatory follicular fluid is influenced by follicle developmental progression post estrous onset in cattle. *Frontiers in cell and developmental biology*, 11, 1156060.

Carrell AA, et al. (2023) Interactions with microbial consortia have variable effects in organic carbon and production of exometabolites among genotypes of *Populus trichocarpa*. *Plant direct*, 7(11), e544.

Spires DR, et al. (2023) Renal histaminergic system and acute effects of histamine receptor 2 blockade on renal damage in the Dahl salt-sensitive rat. *American journal of physiology. Renal physiology*, 325(1), F105.

Read CC, et al. (2022) Preovulatory serum estradiol concentration is positively associated with oocyte ATP and follicular fluid metabolite abundance in lactating beef cattle. *Journal of animal science*, 100(7).

Byerley LO, et al. (2022) Gut Microbiome and Metabolome Variations in Self-Identified Muscle Builders Who Report Using Protein Supplements. *Nutrients*, 14(3).

Bow AJ, et al. (2022) Temporal metabolic profiling of bone healing in a caprine tibia segmental defect model. *Frontiers in veterinary science*, 9, 1023650.

Xie Y, et al. (2022) *Pseudomonas* sp. Strain 273 Incorporates Organofluorine into the Lipid Bilayer during Growth with Fluorinated Alkanes. *Environmental science & technology*, 56(12), 8155.