

# Resource Summary Report

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## Iowa State University W.M. Keck Metabolomics Research Laboratory Core Facility

RRID:SCR\_017911

Type: Tool

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### Proper Citation

Iowa State University W.M. Keck Metabolomics Research Laboratory Core Facility  
(RRID:SCR\_017911)

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### Resource Information

**URL:** <https://www.biotech.iastate.edu/metabolomics/>

**Proper Citation:** Iowa State University W.M. Keck Metabolomics Research Laboratory Core Facility (RRID:SCR\_017911)

**Description:** Core facility that conducts fee for service mass spectrometry-based non-targeted and targeted metabolomic studies. The facility serves and partners with both on- and off-campus clients.

**Abbreviations:** MRL

**Synonyms:** Iowa State University Metabolomics Research Laboratory, Iowa State University W.M. Keck Metabolomics Research Laboratory, W. M. Keck Metabolomics Research Laboratory

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

**Keywords:** Metabolomics, Non-targeted, Metabolite Profiling, Targeted Metabolomics, mass spectrometry imaging, direct infusion, HPLC, capillary, electrophoresis, data, analysis, service, core

**Availability:** Open

**Resource Name:** Iowa State University W.M. Keck Metabolomics Research Laboratory Core Facility

**Resource ID:** SCR\_017911

**Alternate IDs:** ABRF\_796

**Alternate URLs:** <https://coremarketplace.org/?FacilityID=796&citation=1>

**Record Creation Time:** 20220129T080337+0000

**Record Last Update:** 20260905T133415+0000

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## Ratings and Alerts

No rating or validation information has been found for Iowa State University W.M. Keck Metabolomics Research Laboratory Core Facility.

No alerts have been found for Iowa State University W.M. Keck Metabolomics Research Laboratory Core Facility.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Noroozi K, et al. (2026) Nitrogen management in the optimization of microbial plastic waste upcycling. *Bioresources and bioprocessing*, 13(1).

Hagen C, et al. (2026) Impact of low-crude protein and insoluble fiber diets on post-weaning diarrhea, growth performance, intestinal morphology, and gene expression for nursery pigs with natural rotavirus and subject to enterotoxigenic *Escherichia coli* F18+ experimental infection. *Translational animal science*, 10, txag019.

Rodriguez-Ocasio E, et al. (2026) Adaptive evolution of *Candida maltosa* improves the bioconversion of depolymerized plastic feedstock by targeting biosurfactant production. *Applied and environmental microbiology*, 92(4), e0205625.

Shofner IJ, et al. (2026) Zinc regulation of lipidome remodeling during boar sperm capacitation. *Journal of animal science*, 104.

Nisley MJ, et al. (2026) Evaluation of dietary crude protein and non-starch polysaccharidase on nursery pig performance, nitrogen retention, hindgut fermentation and health. *Translational animal science*, 10, txag090.

Bredow M, et al. (2025) Elevated CO<sub>2</sub> alters soybean physiology and defense responses, and has disparate effects on susceptibility to diverse microbial pathogens. *The New phytologist*, 246(6), 2718.

Meyer C, et al. (2025) Off-target effects of the NADPH oxidase inhibitor mitoapocynin-encapsulated nanoparticles and free-drug oral treatment in a rat DFP model of neurotoxicity. *Journal of drug targeting*, 1.

Mathew AP, et al. (2025) LASIP: Light-Activated STING Immunotherapeutic Patch: A Multifunctional Microneedle Platform for Combinatorial Mild Hyperthermia with Immunotherapy in Breast Cancer. *ACS applied materials & interfaces*, 17(26), 37806.

Weide T, et al. (2024) Metabolic Shift in Porcine Spermatozoa during Sperm Capacitation-Induced Zinc Flux. *International journal of molecular sciences*, 25(14).

Uthaman S, et al. (2024) Inhibiting the cGAS-STING Pathway in Ulcerative Colitis with Programmable Micelles. *ACS nano*, 18(19), 12117.

Chen K, et al. (2024) Cuticle development and the underlying transcriptome-metabolome associations during early seedling establishment. *Journal of experimental botany*, 75(20), 6500.

Meyer C, et al. (2023) The NADPH Oxidase Inhibitor, Mitoapocynin, Mitigates DFP-Induced Reactive Astrogliosis in a Rat Model of Organophosphate Neurotoxicity. *Antioxidants (Basel, Switzerland)*, 12(12).

Aboobucker SI, et al. (2021) Maize Zmcp710a8 Mutant as a Tool to Decipher the Function of Stigmasterol in Plant Metabolism. *Frontiers in plant science*, 12, 732216.

Rizhsky L, et al. (2016) Integrating metabolomics and transcriptomics data to discover a biocatalyst that can generate the amine precursors for alkamide biosynthesis. *The Plant journal : for cell and molecular biology*, 88(5), 775.