Resource Summary Report

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Van Andel Institute Mass Spectrometry Core Facility

RRID:SCR_024903
Type: Tool

Proper Citation

Van Andel Institute Mass Spectrometry Core Facility (RRID:SCR_024903)

Resource Information

URL: https://massspec.vai.org/

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Description: Core is committed to developing scientific partnerships with research labs to develop and deploy LC/MS and GC/MS methods specifically tailored to meet the needs of every project. Provides suite of technologies, experimental design support and staff expertise to deliver metabolomics, lipidomics, and proteomics capabilities to VARI scientists and collaborators. Analytical capabilities are combined with custom informatics and statistics solutions.Specific capabilities include: Metabolomics and Lipidomics liquid chromatography mass spectrometry (LC/MS) systems (Thermo Orbitrap ID-X, Thermo Orbitrap Exploris 240, and Agilent 6470 QQQ) and gas chromatography (GC)/MS systems (Agilent 5977b (2), Thermo 7610 ISQ) dedicated to small molecule analysis;Proteomics nano LC/MS systems (Orbitrap Eclipse and Orbitrap Exploris 480) for protein analysis; Bioinformatics for developing and maintaining informatics pipelines for mass spectrometry data analysis and visualization.Major equipment in the facility includes Thermo Scientific Orbitrap ID-X LC/MS,Thermo Scientific Orbitrap Exploris 240 LC/MS,Thermo Scientific Orbitrap Eclipse nanoLC/MS,Thermo Scientific Orbitrap Exploris 4800 LC/MS,Agilent 6470 Triple Quadrupole LC/MS ,Agilent Infinity 1290II UPLC,Agilent 5977B GC/MS,Thermo Scientific ISQ7610 EI/CI enabled GC/M.

Synonyms: , Van Andel Institute Mass Spectrometry Core, VAI Mass Spectrometry Core, Mass Spectrometry Core, VAI Mass Spectrometry Core (MSC)

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

Keywords: ABRF, mass spectrometry, metabolomics, lipidomics, proteomics, services,

Resource Name: Van Andel Institute Mass Spectrometry Core Facility

Resource ID: SCR_024903

Alternate IDs: ABRF_2610

Alternate URLs: https://coremarketplace.org/?FacilityID=2610&citation=1

Record Creation Time: 20240120T050237+0000

Record Last Update: 20260729T044612+0000

Ratings and Alerts

No rating or validation information has been found for Van Andel Institute Mass Spectrometry Core Facility.

No alerts have been found for Van Andel Institute Mass Spectrometry Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 26 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Norden PR, et al. (2026) Mitochondrial phosphopantetheinylation is required for oxidative metabolism. Metabolism: clinical and experimental, 174, 156413.

Forton C, et al. (2026) Gut microbiome-derived tryptophan metabolites predict relapse in alcohol use disorder. Brain, behavior, and immunity, 131, 106161.

Jones P, et al. (2025) Dnmt3a2 expression during embryonic development is required for phenotypic stability. Research square.

Oswald BM, et al. (2025) Dietary restriction reprograms CD8+ T cell fate to enhance anti-tumour immunity and immunotherapy responses. Nature metabolism, 7(12), 2489.

Kasen A, et al. (2025) Seed structure and phosphorylation in the fuzzy coat impact tau seeding competency. Nature communications, 16(1), 9240.

Tripathi A, et al. (2025) Nrf2 drives activation-driven expansion of CD4+T cells by modulating glucose and glutamine metabolism. Cell reports, 44(9), 116177.

Kaluba FC, et al. (2025) An alternative route for ?-hydroxybutyrate metabolism supports cytosolic acetyl-CoA synthesis in cancer cells. Nature metabolism.

Nauta KM, et al. (2025) A noncanonical polyamine from bacteria antagonizes host mitochondrial function. Nature communications, 16(1), 11638.

Steiner KK, et al. (2025) Mitochondrial fatty acid synthesis and MECR regulate CD4+ T cell function and oxidative metabolism. Journal of immunology (Baltimore, Md. : 1950),

214(5), 958.

Chomiak AA, et al. (2025) Dual EZH1/2 inhibition enhances DNMT inhibitor efficacy in colon cancer through targeting H3K27me1. bioRxiv : the preprint server for biology.

Jellen LC, et al. (2025) Sex differences in peripheral and central dysregulation of the kynurenine pathway in Parkinson's disease. NPJ Parkinson's disease, 11(1), 116.

Dahabieh MS, et al. (2025) The prostacyclin receptor PTGIR is a NRF2-dependent regulator of CD8+ T cell exhaustion. Nature immunology, 26(7), 1139.

Murata SA, et al. (2025) High Baseline Plasma Anthranilic Acid Predicts Remission Upon Acute-Series Ketamine Infusion for Treatment-Resistant Depression. Biological psychiatry global open science, 5(4), 100503.

Pérez-Mojica JE, et al. (2025) Resolving early embryonic metabolism in Drosophila through single-embryo metabolomics and transcriptomics. Nature metabolism.

Ensing J, et al. (2025) The E3 ubiquitin ligase Trip12 semi-selectively attenuates Wnt signaling. iScience, 28(10), 113575.

Liu M, et al. (2025) Dnmt3a2 expression during embryonic development is required for phenotypic stability. Communications biology, 9(1), 44.

Ma S, et al. (2025) Nutrient-driven histone code determines exhausted CD8+ T cell fates. Science (New York, N.Y.), 387(6734), eadj3020.

Longo J, et al. (2025) Glucose-dependent glycosphingolipid biosynthesis fuels CD8+ T cell function and tumor control. Cell metabolism, 37(9), 1890.

Ensing J, et al. (2024) The E3 Ubiquitin Ligase Trip12 attenuates Wnt9a/Fzd9b signaling during hematopoietic stem cell development. bioRxiv : the preprint server for biology.

Dahabieh MS, et al. (2024) NRF2-dependent regulation of the prostacyclin receptor PTGIR drives CD8 T cell exhaustion. bioRxiv : the preprint server for biology.