## **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: core facility, service resource, access service resource

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

#### **Funding:**

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: 20250517T060605+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 7 mentions in open access literature.

**Listed below are recent publications.** The full list is available at NIF.

House RRJ, et al. (2024) A diverse proteome is present and enzymatically active in metabolite extracts. Nature communications, 15(1), 5796.

Kaluba FC, et al. (2024) An alternative route for ?-hydroxybutyrate metabolism supports fatty acid synthesis in cancer cells. bioRxiv: the preprint server for biology.

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.

Panzeri I, et al. (2024) Chronic obesity does not alter cancer survival in Tp53 R270H/+ mice. bioRxiv: the preprint server for biology.

Longo J, et al. (2024) Glucose-dependent glycosphingolipid biosynthesis fuels CD8+ T cell function and tumor control. bioRxiv: the preprint server for biology.

Norden PR, et al. (2024) Mitochondrial Phosphopantetheinylation is Required for Oxidative Function. bioRxiv: the preprint server for biology.