BIOINNOVATIONS IN BRAIN CANCER

FORMULATION AND TRANSLATION CORE

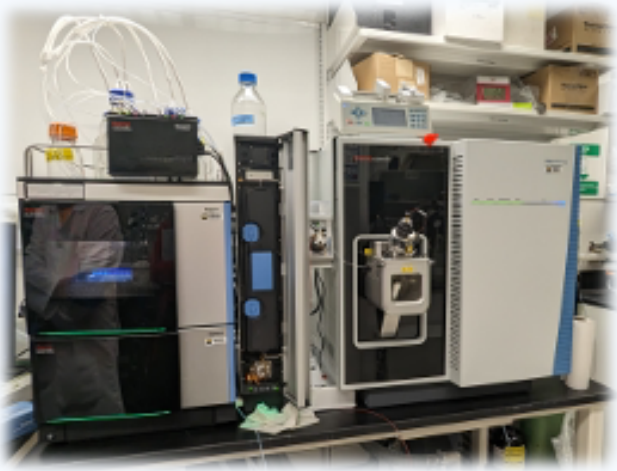
LOCATION: NCRC
B20 - 126W-A

FROM DRUG FORMULATIONS TO BIOLOGICAL TISSUE AND MACROMOLECULE CHARACTERIZATION

MAJOR INSTRUMENTS:

WATERS H-CLASS UPLC WITH UV FLUORESCENCE AND QDA MASS DETECTION:

- Drug formulation, concentration and stability analysis
- Analysis of peptides, proteins and RNA
- Intuitive operation, effortless integration & resolving complexity



THERMO TSQ ALTIS PLUS TRIPLE QUAD MASS SPECTROMETER

- Biomarker analysis in plasma and tissues
- Pharmacokinetics of complex molecules
- Biomacromolecule characterization

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BIBC-TechnologyCore@umich.edu

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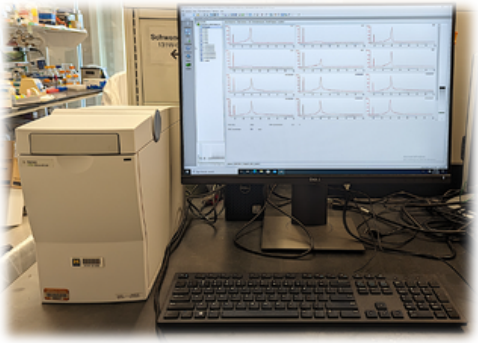
ALSO AVAILABLE:

- Xevo G2-XS QTOF Mass Spectrometer
- Thermo Scientific LTQ Velos Ion Trap LC/MS
- Wyatt DAWN® Multi-Angle static Light Scattering (MALS), Viscostar detectors in conjunction with conventional column heated Waters GPC/RI detection
- Agilent 2100 Bioanalyzer for lipid nanoparticle (LNP) formulation and analytical characterization methodologies for RNA delivery



AFFILIATED CORE EQUIPMENT:

Labconco **Freeze Dryer** System
Thermo Scientific Multifuge X1 Pro **Centrifuge**

Fisherbrand **Oven**, **Shaking incubator**
Waters e2695 **Separation Module**
TRACE™ 1600 Series **Gas Chromatograph**
Coulometric KF Tritor for water determination
Procept 4M8-TriX Spray-dryer

TruSpec Micro for detection of carbon, hydrogen, nitrogen, sulfur and oxygen in solid or liquid micro samples

Cell culture equipment
Retsch **Cryomill**
Thermo Scientific **-80C** freezer

Spectramax Plus and
Promega Glomax explorer
plate readers

Avestin air pressure
homogenizer
Thermo Scientific **water purification system**

SERVICES:

- User training for selected instruments
- Support on sample analysis and experiment design
- Access to bulk laboratory supplies (i.e. pipette, buffer solutions, pH meter, vortex, scale)
- Access to BI Nanotechnicum for characterization/analysis of nanomaterials
- Support on market assessment and FDA regulation
- Access to affiliated Core equipment

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