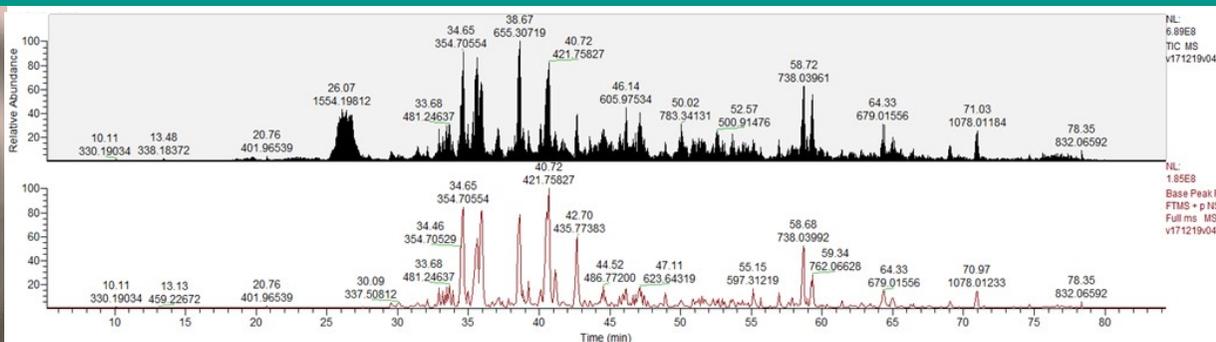
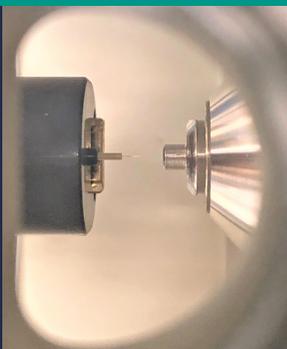
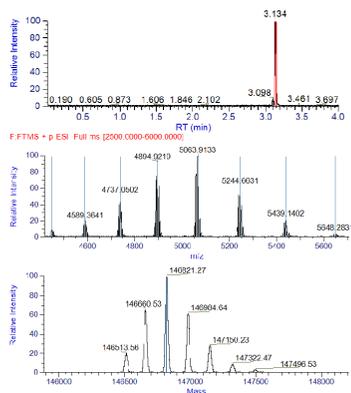


# Biomolecular Analysis Facility



## About Us

The Biomolecular Analysis Facility Core (BAF) is committed to bringing you the best in instrumentation and personnel. Our instruments include a ThermoFisher Exploris 480 and a ThermoFisher Orbitrap ID-X. The Exploris 480 provides high resolution and high mass accuracy in MS and MS/MS. This instrument can perform proteomics and intact protein analysis using nLC and CE interfaces. Quantitation is now performed using parallel reaction monitoring (PRM). The Orbitrap ID-X provides high resolution metabolomics and small molecule quantification. These two instruments can handle all your qualitative and quantitative proteomic and metabolomic needs. We also offer a suite of Shared Instruments for open access.



## Our Services

Services are grouped in two areas:

-Mass Spectrometry - qualitative and quantitative analysis of proteins, peptides, metabolites, and small molecules.

-Shared Instrumentation - user operated equipment or staff assisted analysis

- Accurate Mass Determination via LC or CE of small molecules, peptides, and proteins
- Simple to Complex Mixture Analysis
- Comparative Proteomics
- Analysis of Post-translational Modifications
- Quantitation (PRM)
- Untargeted Metabolomics
- Targeted Metabolic Pathways
- Isotope Tracing
- Molecular Interactions (Octet)
- Plate Reading
- Circular Dichroism
- HPLC

## Instrumentation

### Shared Instrumentation

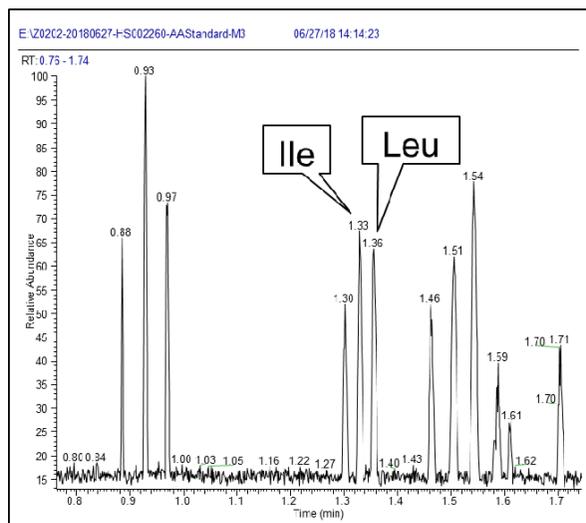
- Dionex HPLC
- SpectraMax ID3 Plate Reader
- Forte Octet Red Molecular Interactions
- Jasco J-1500 Circular Dichroism
- MALDI-TOF
- AKTA FPLC
- Labconco Lyophilizer
- Thermo Speedvac

### Mass Spectrometry

- ThermoFisher Exploris 480 with nLC and CE
- ThermoFisher Orbitrap ID-X with uLC
- Shimadzu 8030 MALDI-TOF



*The BAF has expertise in areas of*  
**Proteomics**  
**Metabolomics**  
**Molecular Interactions**



**Enhancing Research,  
Rigor and Reliability**

## Our Team

**Nicholas E. Sherman PhD** - Director  
Associate Professor of Microbiology

**Dilza Silva PhD** - Assistant Director  
Senior Scientist

**Taylor Pierce BS** - Lab Tech 2



## Contact

Dr. Nicholas Sherman: [nes3f@virginia.edu](mailto:nes3f@virginia.edu)

Dr. Dilza Silva: [xjb8bf@virginia.edu](mailto:xjb8bf@virginia.edu)

Phone: 434-924-0070

BAF Website:  
[med.virginia.edu/biomolecular-analysis-facility](http://med.virginia.edu/biomolecular-analysis-facility)

Request services on:  
[uva.corefacilities.org/account/login](http://uva.corefacilities.org/account/login)

UVA Biomolecular Analysis Facility Core  
Pinn Hall | Room 1105  
1340 Jefferson Park Avenue  
Charlottesville, VA 22908

