

# UVM Proteomics Facility

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Vermont Genetics Network  
The University of Vermont

## Mission

The VGN Proteomics Facility at the University of Vermont (UVM) is a core facility funded by the Vermont Genetics Network (VGN) and UVM to serve the Lead Institution and research throughout the state as part of the IDeA Program mission of building research infrastructure.

## Goals:

- To provide a central resource of the latest mass spectrometry-based proteomics technologies to identify, characterize and quantify target proteins in various biological and biomedical samples.
- To establish a highly efficient research and educational environment for sharing ideas, experiences, and knowledge of proteomics applications.

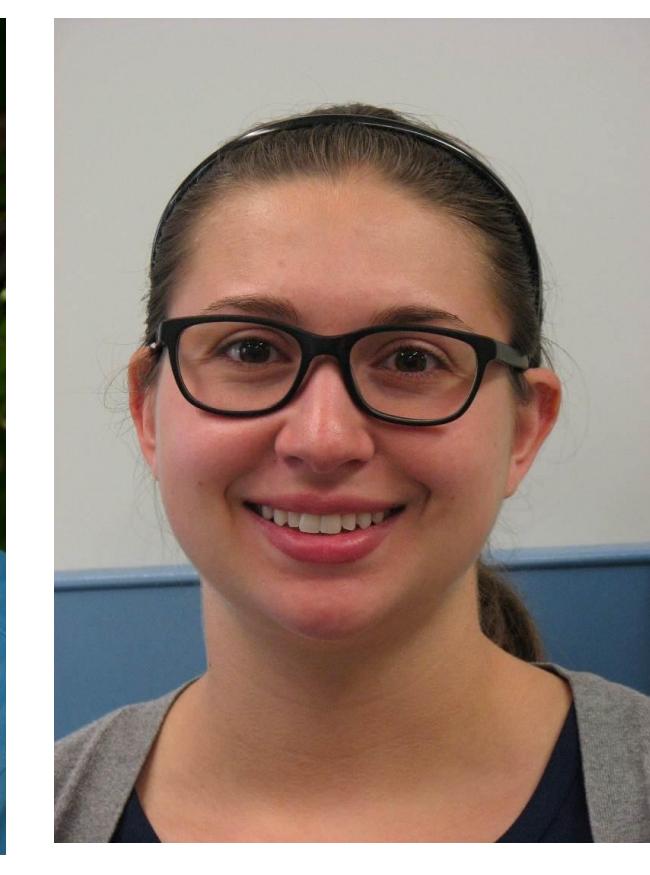
## Personnel



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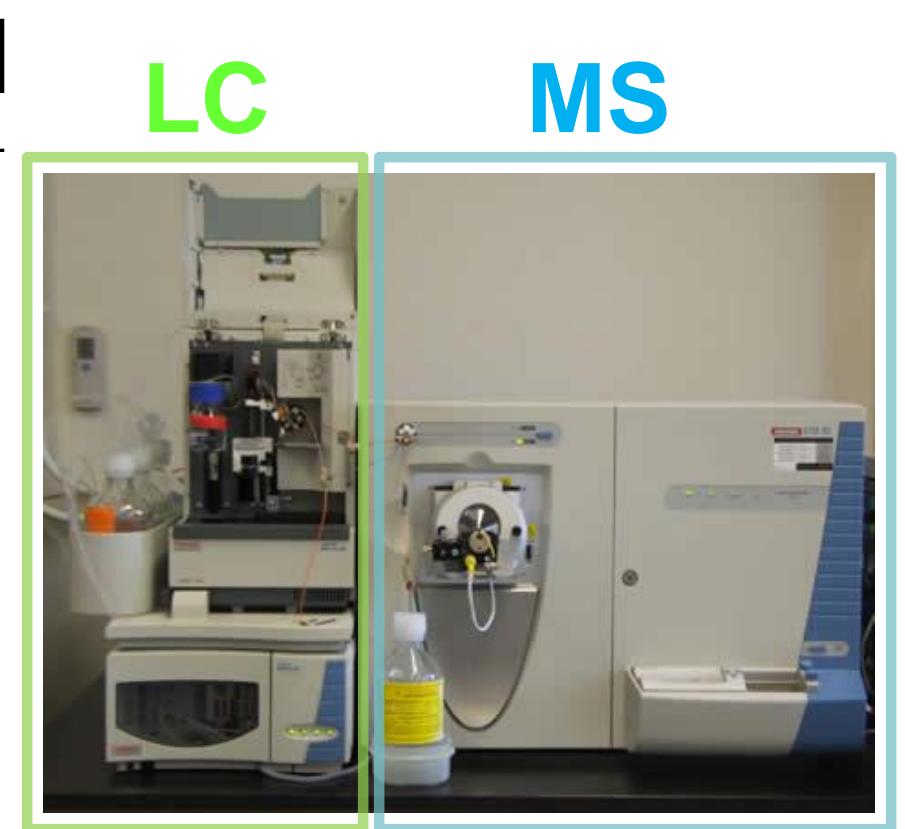


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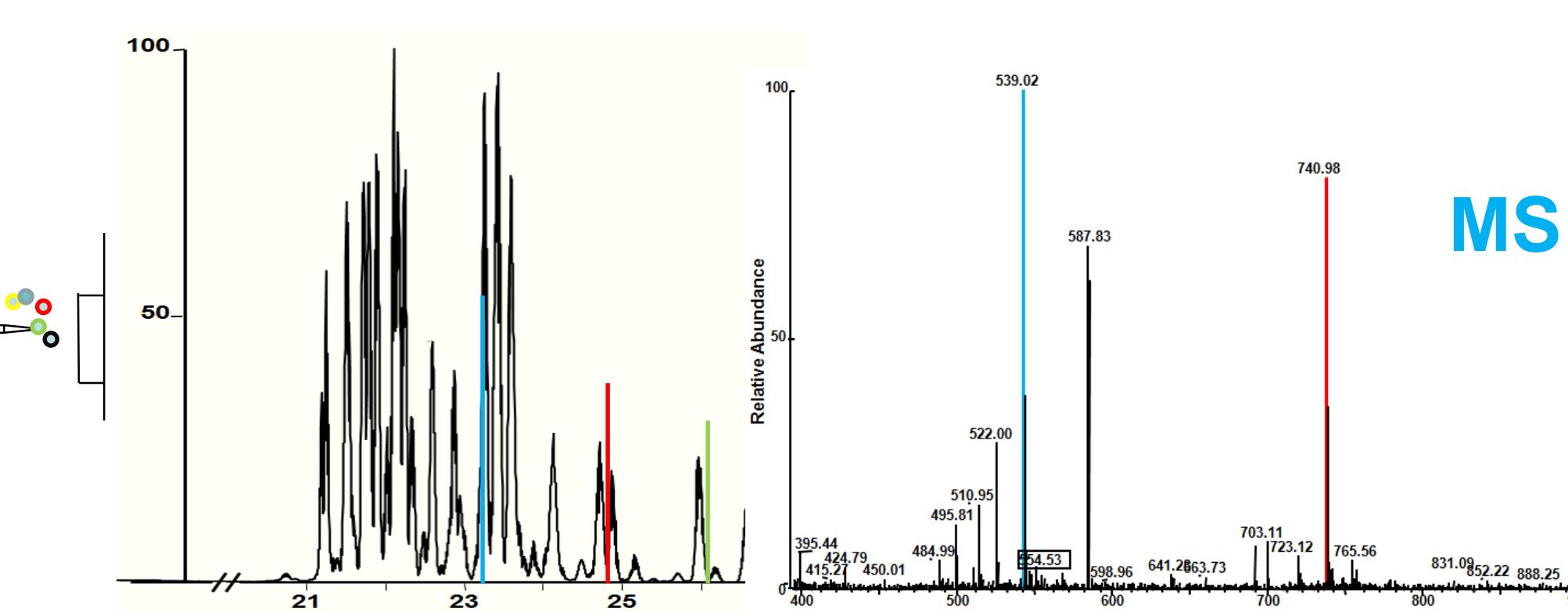


Catrina Hood  
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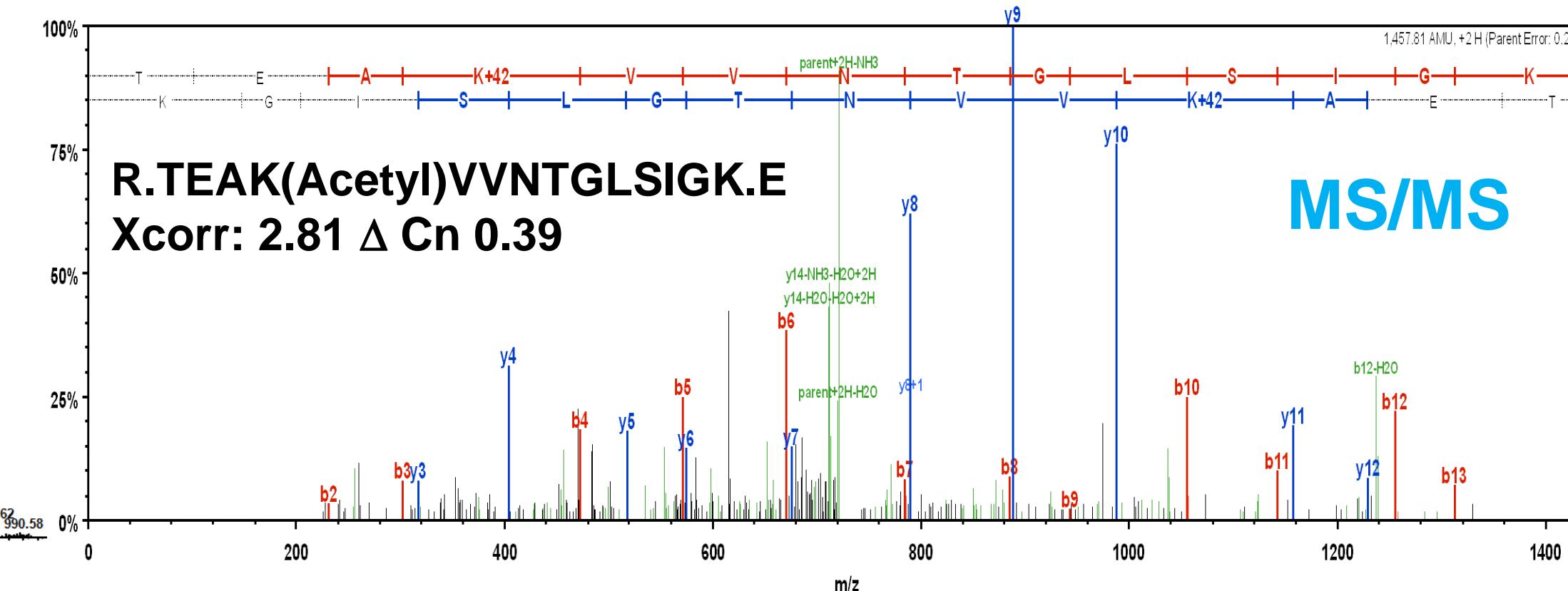
## Expertise



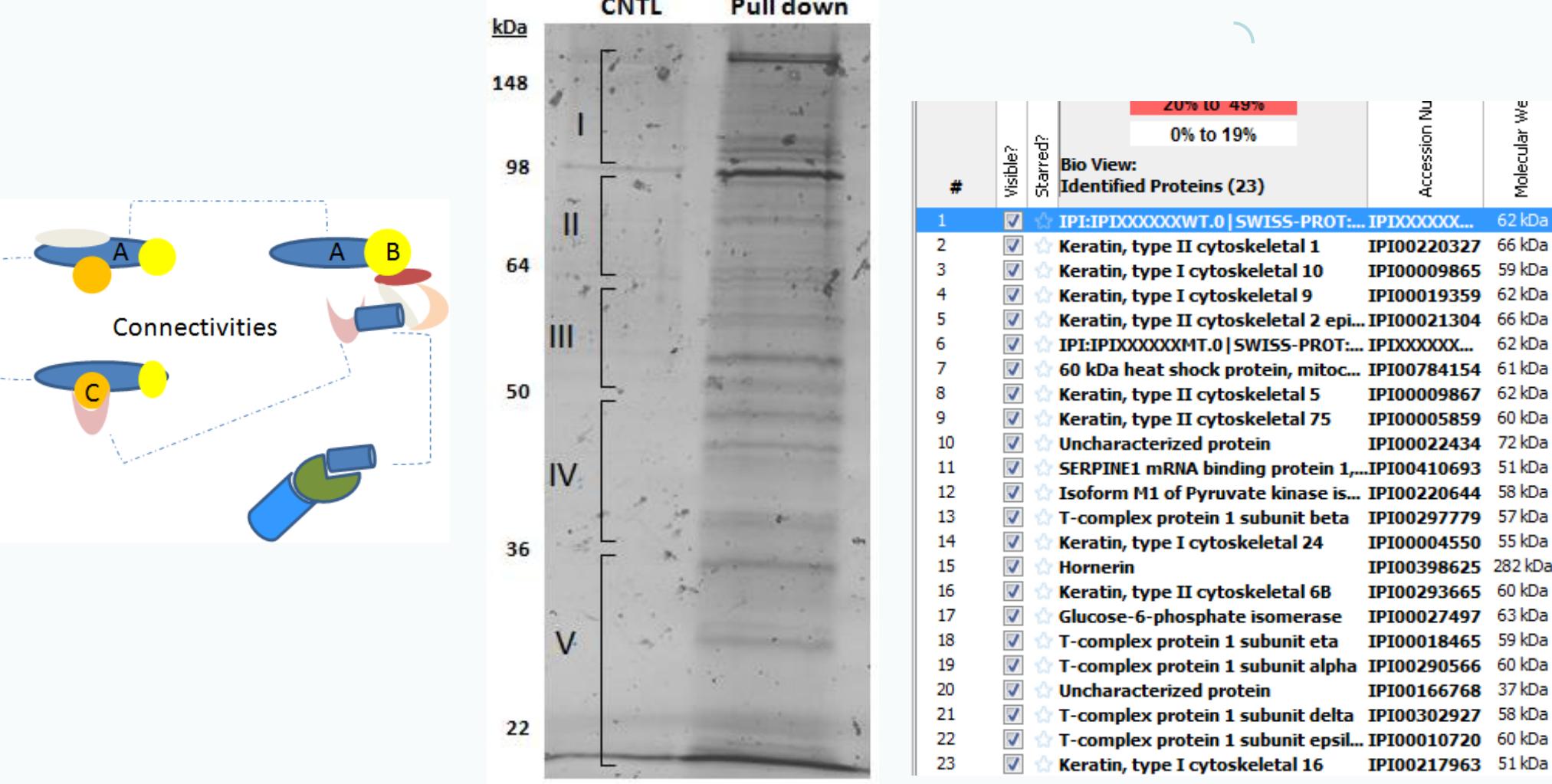
### Protein identification



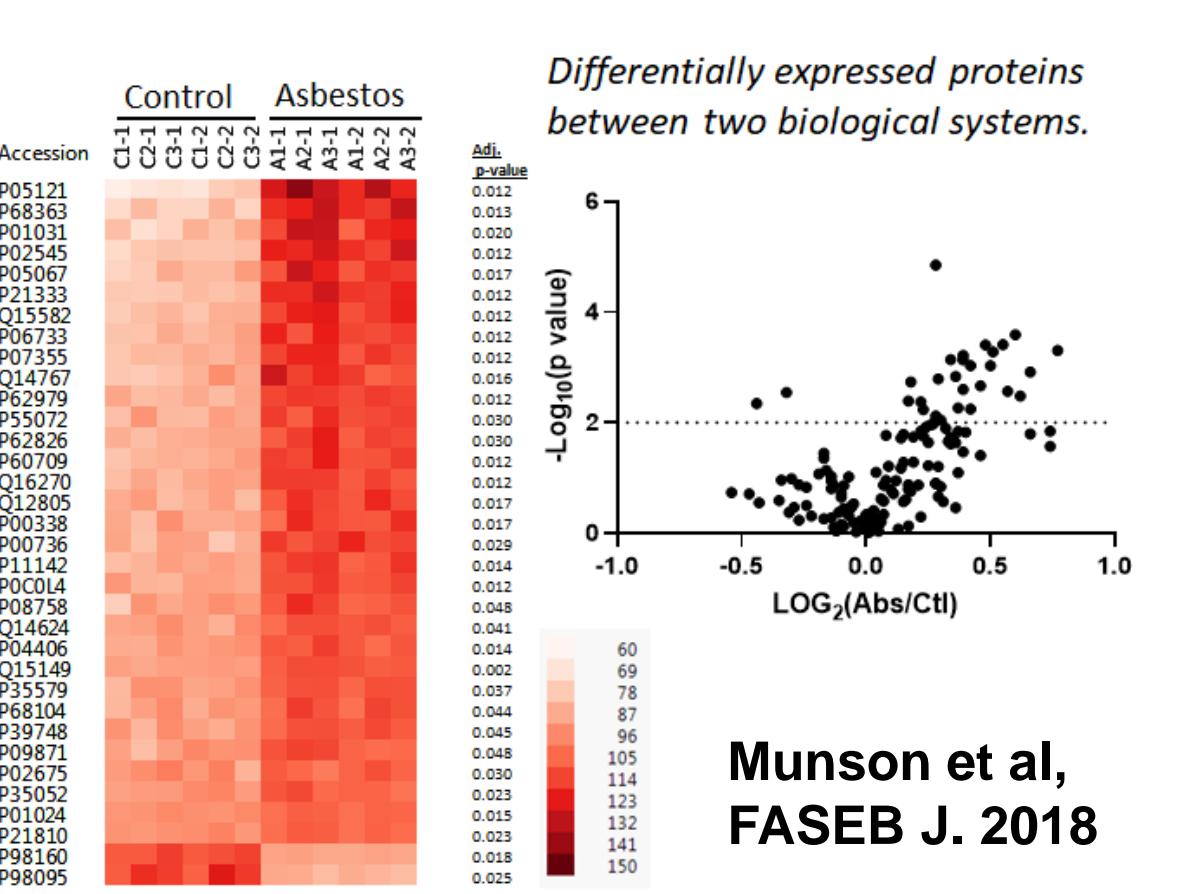
### Post-translational modification analysis



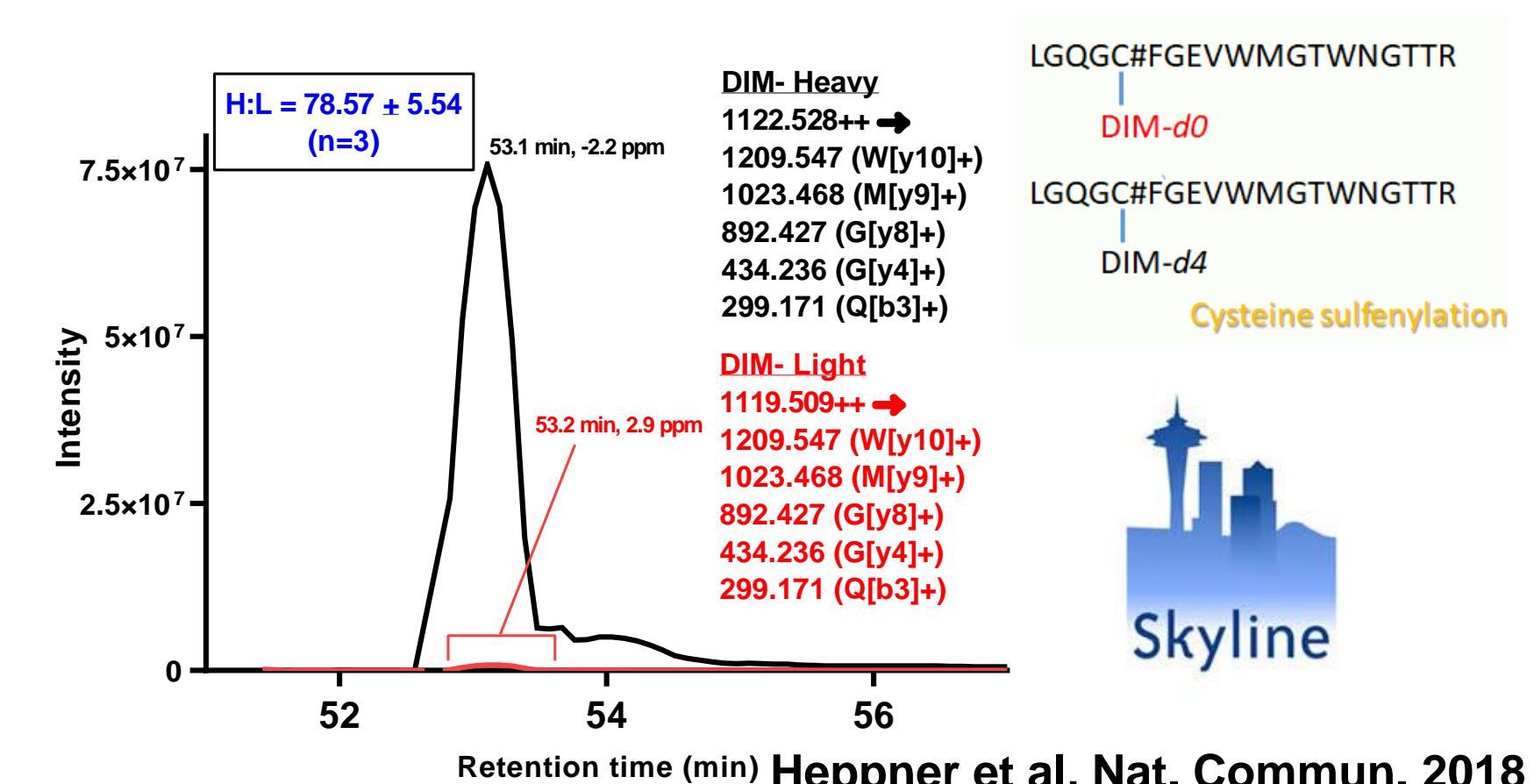
### Protein-protein interaction



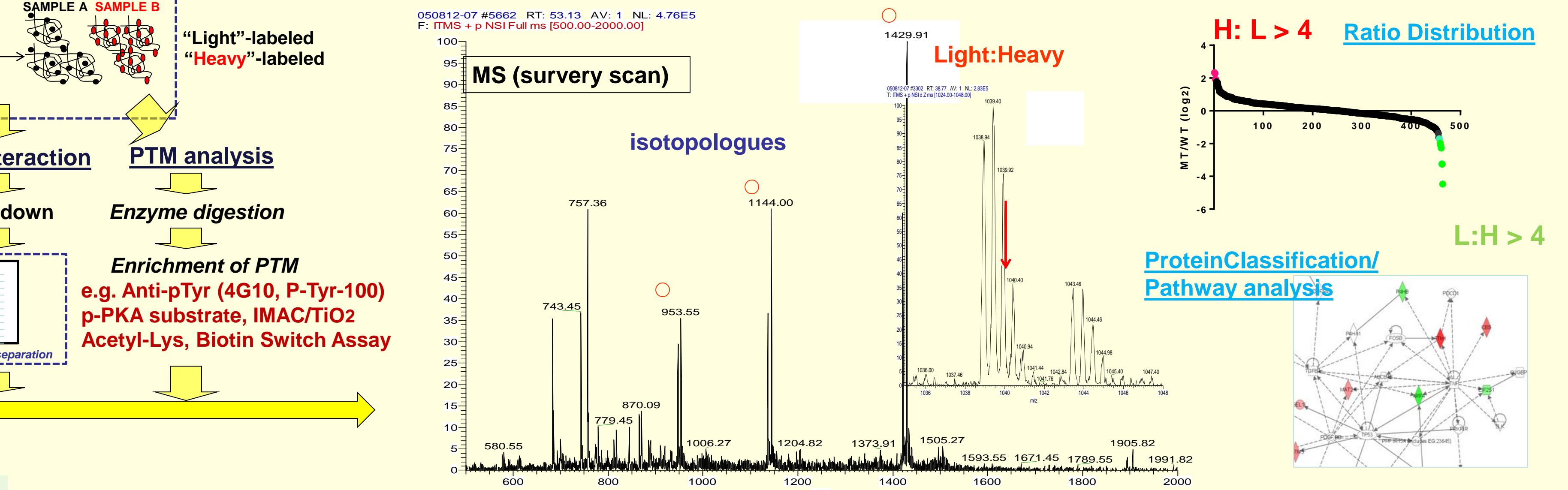
### Tandem Mass Tags



### Parallel Reaction Monitoring

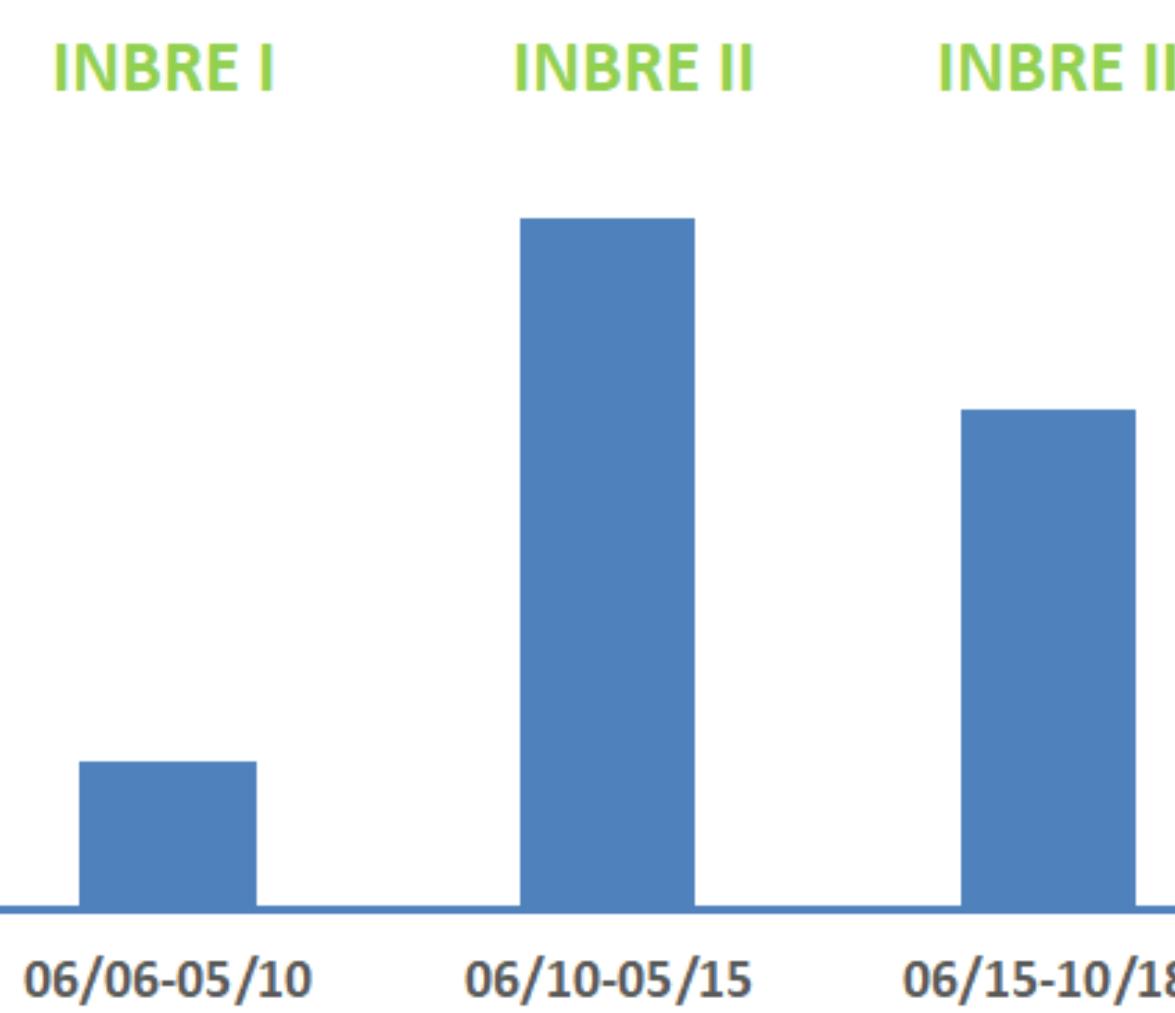


### Large-scale quantitative proteomics



## Impact/Outcome Data

### Publications



### Grants Supported

- Supported a total of 55 grants (since 2006)
- Provided support letters and/or preliminary data for 81 grant applications (since 2011)
- 33 active grants (2018-2019)

#### NIH (22)

R01 AR065826 R01HL122383 R01AI122232 R01HL136636 R01CA219156  
R01NS045940 R01AI105191 R01GM117155 R01NS097596 R01MH109651  
R01HL085646 R01GM054899 R01HL137268 R01HL138708 R01DE014711

R15GM12339301 R21AI128510 R21AI132565 R21AG056955

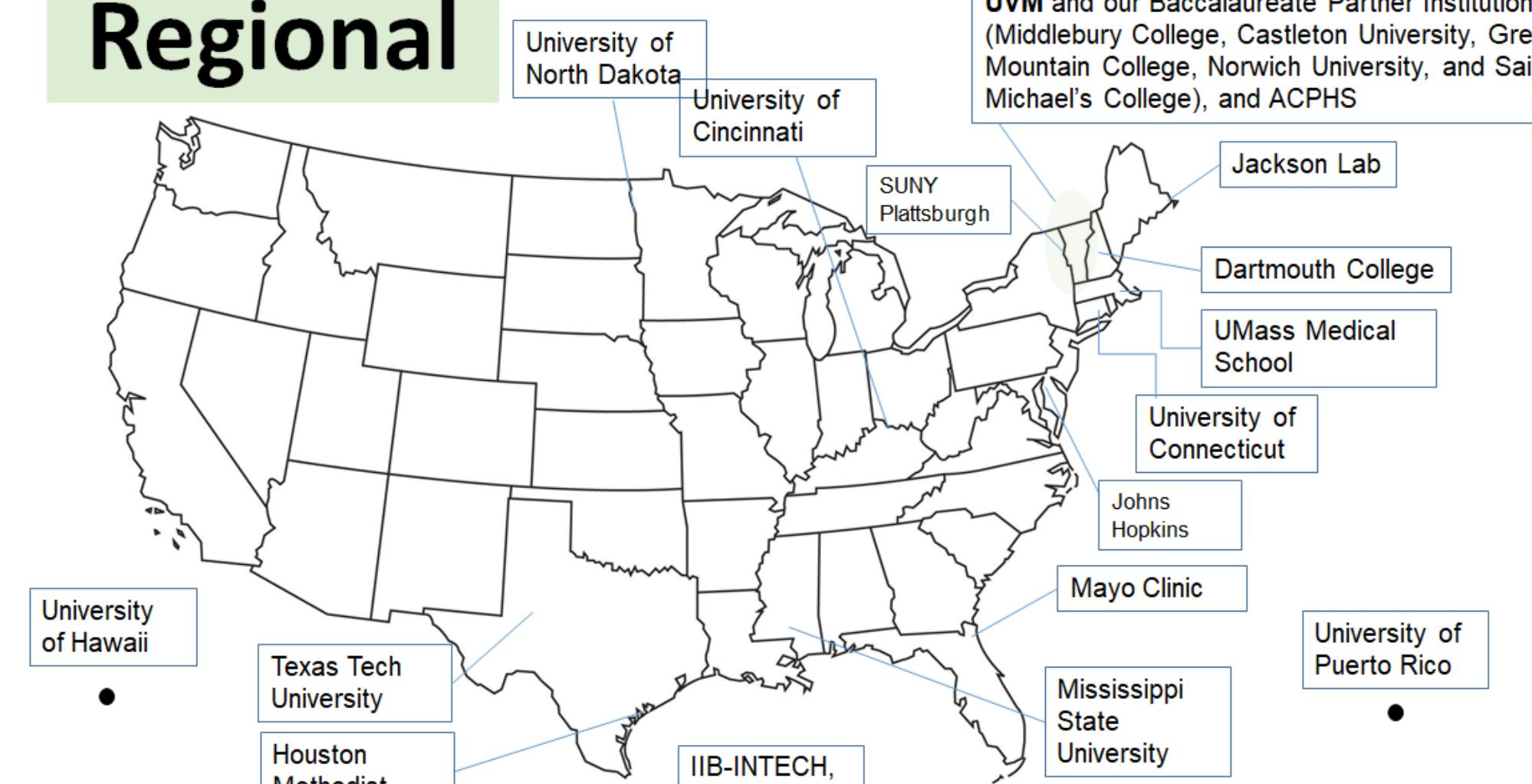
R56AI11625501 P20GM113132 F31HL142221

#### NSF (5)

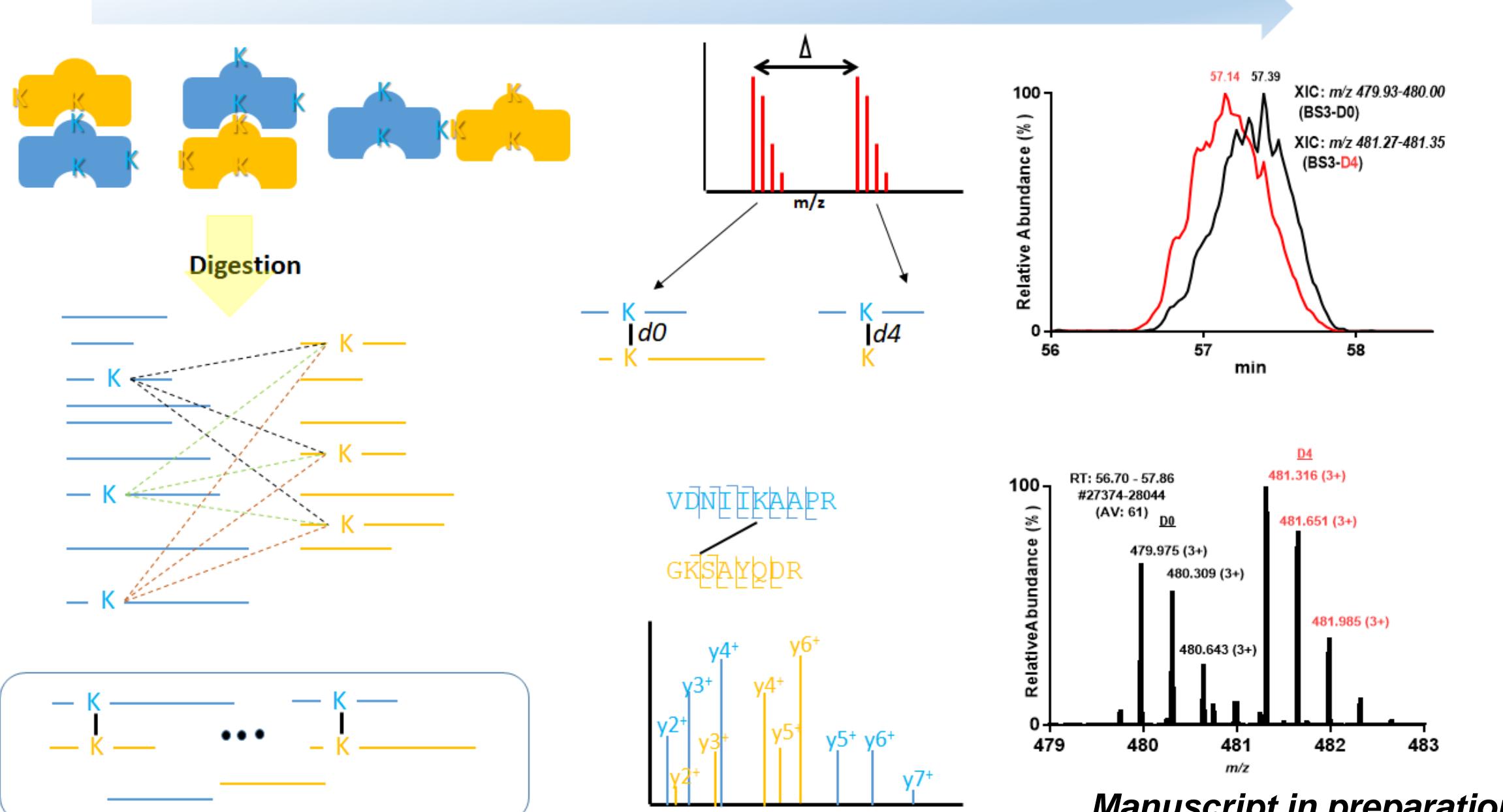
IOS 1656510 IOS 1625154 DEB 1144045 DBI 1560180 MCB 1817793

Foundation grant (1), Company grant (2), UVM internal award (2)

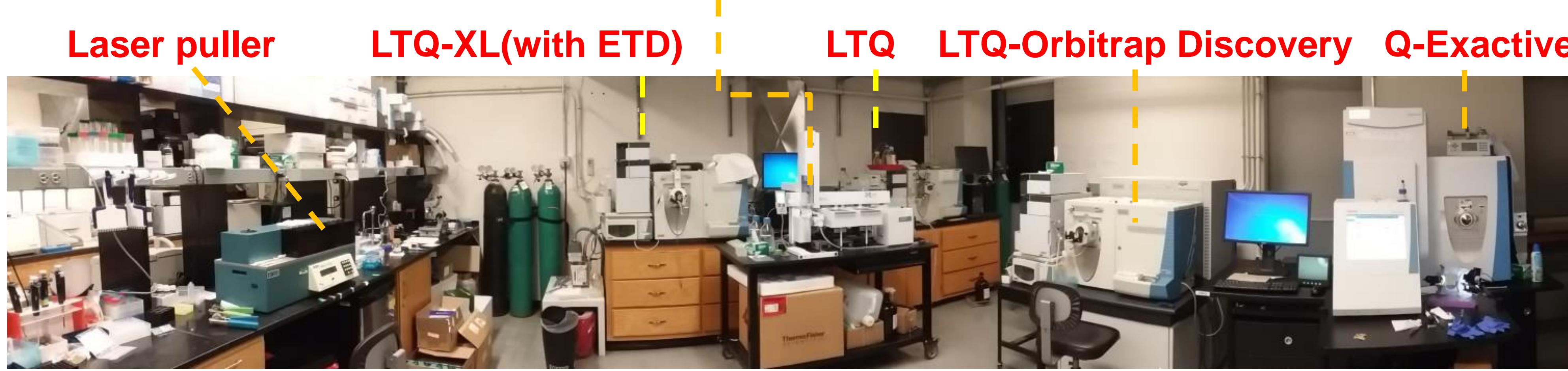
### Regional



### Structural proteomics Stable isotope-based cross-linking



### Hydrogen deuterium exchange workflow station, HDx-3 PAL



## Facility

Marsh Life Sciences (MLS) 335  
<http://vgn.uvm.edu/proteomics/>

