

Characterizing the Complex Metaproteome of Microbial Communities

- **Purpose:**

- **An important facet of understanding how bacteria survive and thrive in natural microbial communities involves comprehensive characterization of the metaproteome of the community under different growth conditions.**
- **This technology development project focuses on design and implementation of state-of-the-art mass spectrometric approaches combined with multidimensional liquid chromatographic separations for high-throughput proteome measurements that are designed to be “deep and wide”.**
- **The longer term objective is to systematically investigate the technology and bioinformatics needed for comprehensive characterization of microbial communities.**

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- **Sponsor: ORNL Director’s Exploratory Program (FY 2003-2005)**