



Development of New Capabilities for Genome-Scale Quantitative Measurements of Protein Complexes



- **Purpose:**

- An important facet of mass spectrometric characterization of protein complexes involves quantitative measurements of copy number and stoichiometry.
- Current quantitative mass spectrometric methods for proteins lag behind qualitative methods (e.g., protein identification).
- Chemical labeling reagents that will enhance mass spectrometric quantitative measurements of proteins are being developed.
- Stable isotope labeling approaches are being tailored to measure changes in expression level and composition of protein complexes as a function of growth conditions for microbial species.

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