

University of Groningen

Chemical approaches for quantitative proteomics

Tian, Xiaobo

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Propositions

Associated with the PhD Thesis

Chemical approaches for quantitative proteomics

By Xiaobo Tian

1. Multiplex isotope labeling improves the accuracy, precision and throughput of quantitative proteomics in both data-dependent and data-independent acquisition modes. *(This Thesis)*
2. Quantifying peptides based on sequence-informative peptide fragment ions avoids the ratio distortion that is commonly observed for reporter ion-based quantification approaches. *(This Thesis, Chapter 2 and 3)*
3. The acetyl-alanine-glycine tag is compatible with quantification in both data-dependent and data-independent acquisition modes. *(This Thesis, Chapter 4)*
4. The combination of multiplex labeling and data-independent acquisition holds promise for large-scale clinical studies in the future. *(This Thesis)*
5. Site-selective chemistry on peptides and proteins has great potential in biochemical analysis, chemical biology and the design of novel biopharmaceuticals. *(Experienced by the PhD candidate)*
6. I don't know what I want, but I know exactly what I don't want. *(Experienced by the PhD candidate)*
7. Be realistic, neither be conceited nor belittle yourself. ——实事求是，不要好高骛远，更不能妄自菲薄。 *(Experienced by the PhD candidate)*
8. Only by putting up with what others can't stand can you enjoy what others can't enjoy. ——只有忍受别人不能忍受的忍受，才能享受别人不能享受的享受。 *(Experienced by the PhD candidate)*