GMSBI793 Lecture 9 Problem set

Due by email to jzaia@bu.edu on 4/11/23

Please read "Benchmarking the Orbitrap Tribrid Eclipse for Next Generation Multiplexed Proteomics"; Anal Chem; (2020), available as a pdf file in the lecture 9 folder.

- 1. What are the strengths and limitations of the SPS-MS³ method?
- 2. Explain how ΦSDM resolves TMT reporter ions at lower resolution that with HRMS².
- 3. How did the investigators avoid acquiring SPS-MS³ scans that produce unidentifiable scans?
- 4. How was shorter ion injection times achieved on the Eclipse instrument?
- 5. How will the use of FAIMS with the Eclipse improve speed and performance of multiplexed quantitative proteomics workflows?