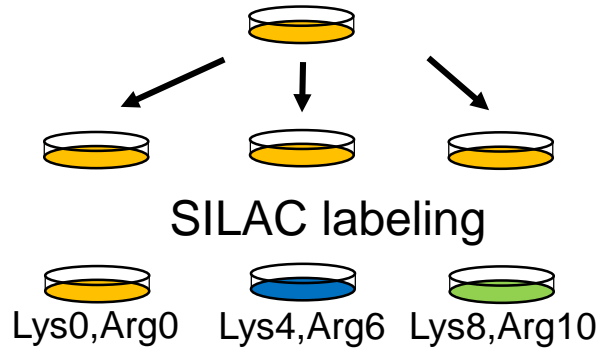
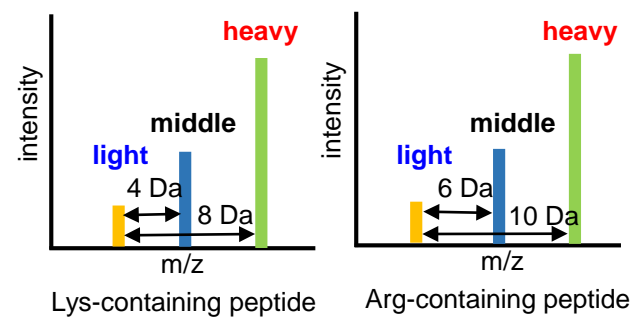


SILAC



Lys4 – alkyl Dx4 substitution
Arg6/Lys6 – $^{13}\text{C}_6$ substitution
Lys8 - $^{13}\text{C}_6 + ^{15}\text{N}_2$ substitution
Arg10 - $^{13}\text{C}_6 + ^{15}\text{N}_4$ substitution

Mix and digestion
LC-MS/MS analysis



Ratio1= Middle/Light
Ratio2= Heavy/Light
Ratio3= Heavy/Middle

SILAC is an innovative technology used in metabolic labeling. It provides high throughput quantitative analysis of large protein complexes, protein-protein and protein-small molecule interactions.

Advantage of SILAC:

- Cutting-edge facilities & optimized protocols
- Harmless *in vivo* labeling
- High sensitivity
- Suitable for study of protein-protein-interaction
- Post-translational modification is detectable