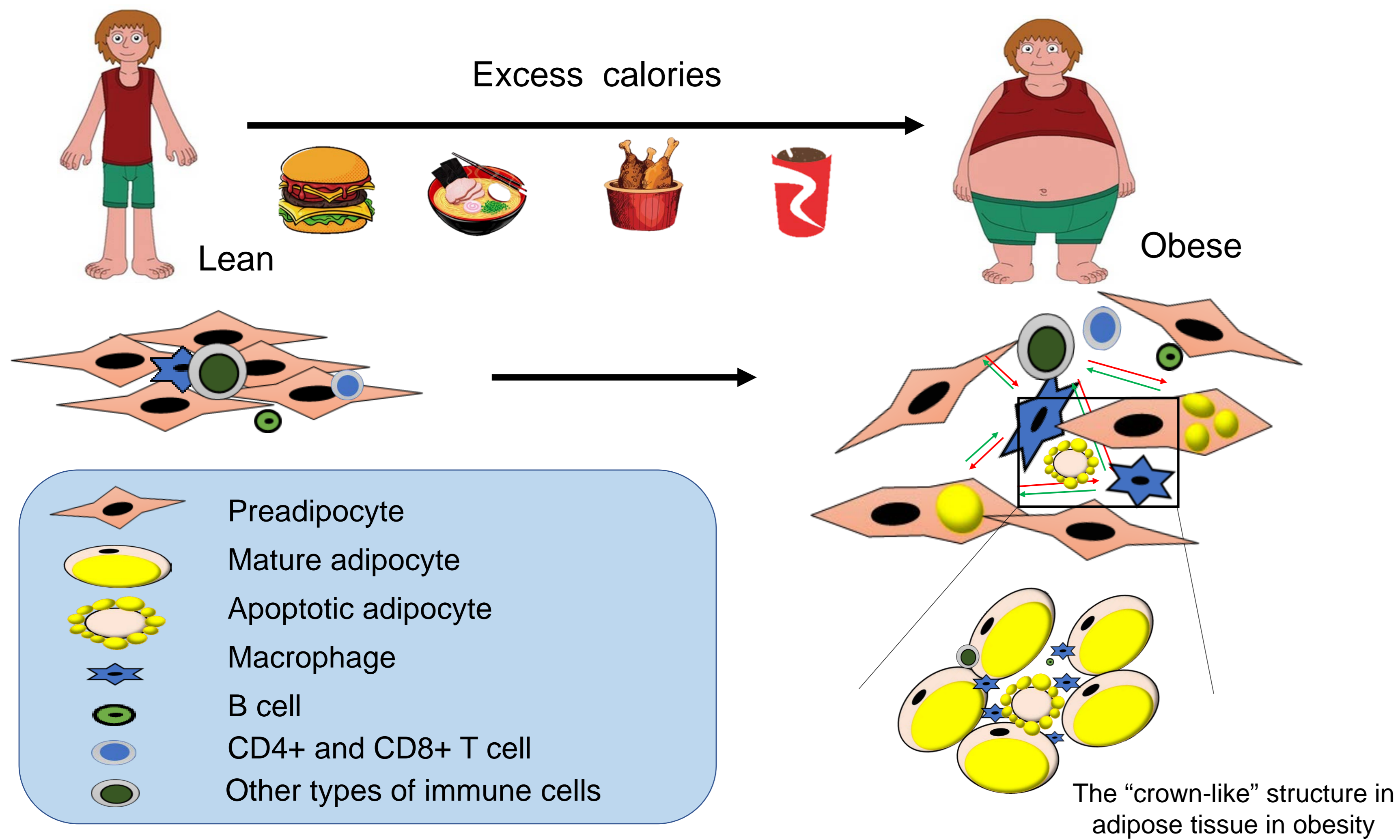


A Proteomics View on Adipose Tissue Inflammation

YCI Laboratory for Next-Generation Proteomics
RIKEN Center for Integrative Medical Sciences
Contact: Dr. Yibo Wu. Email: yibo.wu@riken.jp

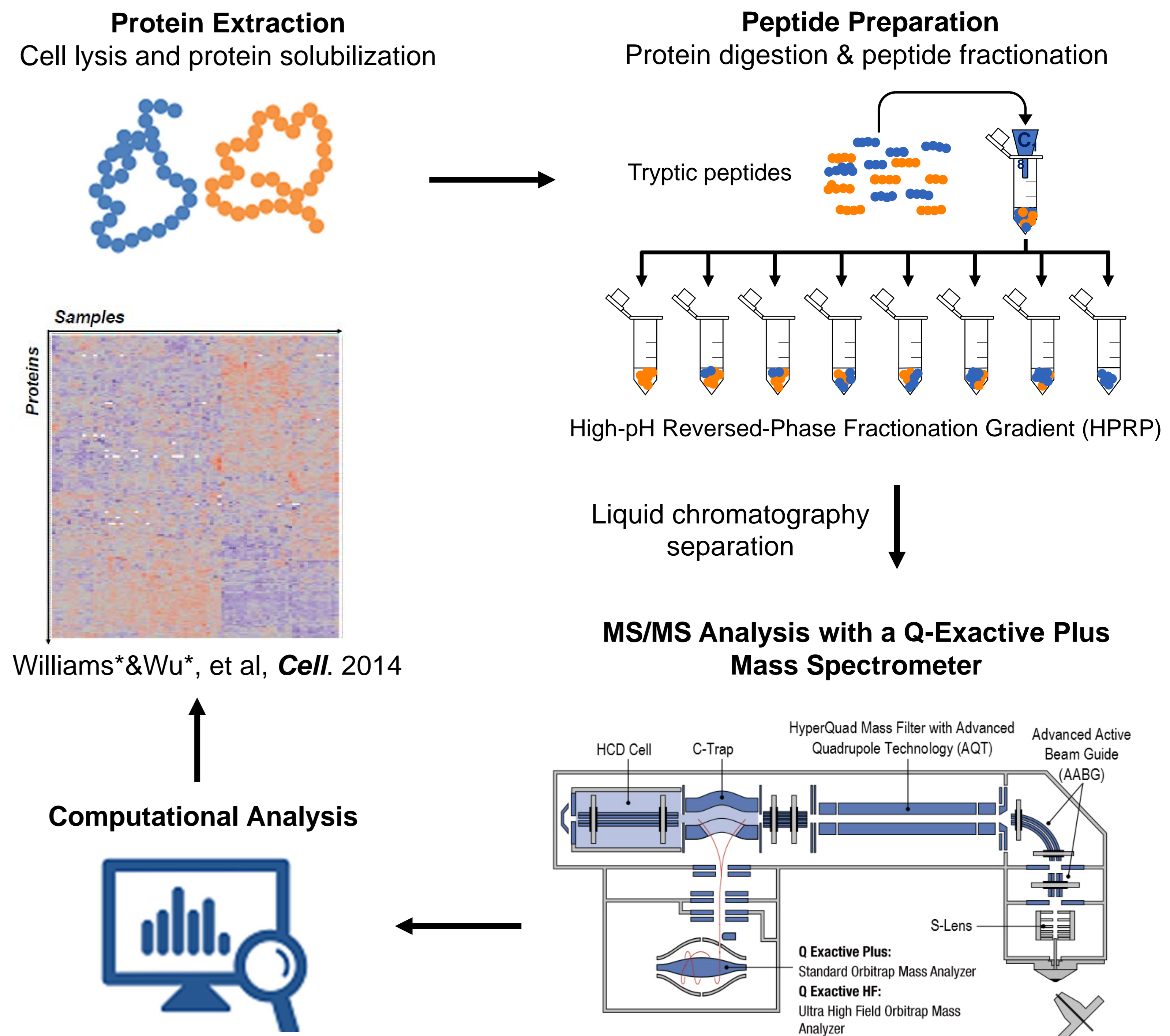
Introduction

1. Obesity is a result of too many calories and chronic inflammation

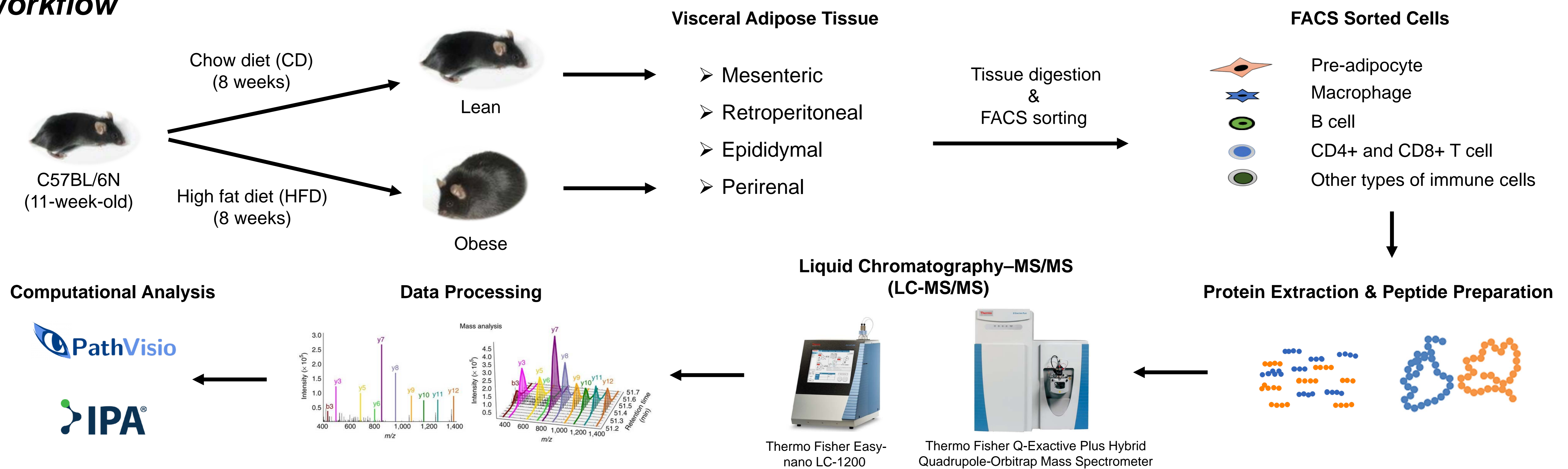


- Development of obesity includes the hypertrophy and hyperplasia of adipocytes
- Adipose immune cells, especially macrophages, can regulate the obesity process via multiple cytokines (e.g. TNF- α and IL-6)
- The detailed roles of immune cells are still not fully understood

2. Quantitative proteomics is a highly sensitive method to determine the amounts of proteins in complex samples

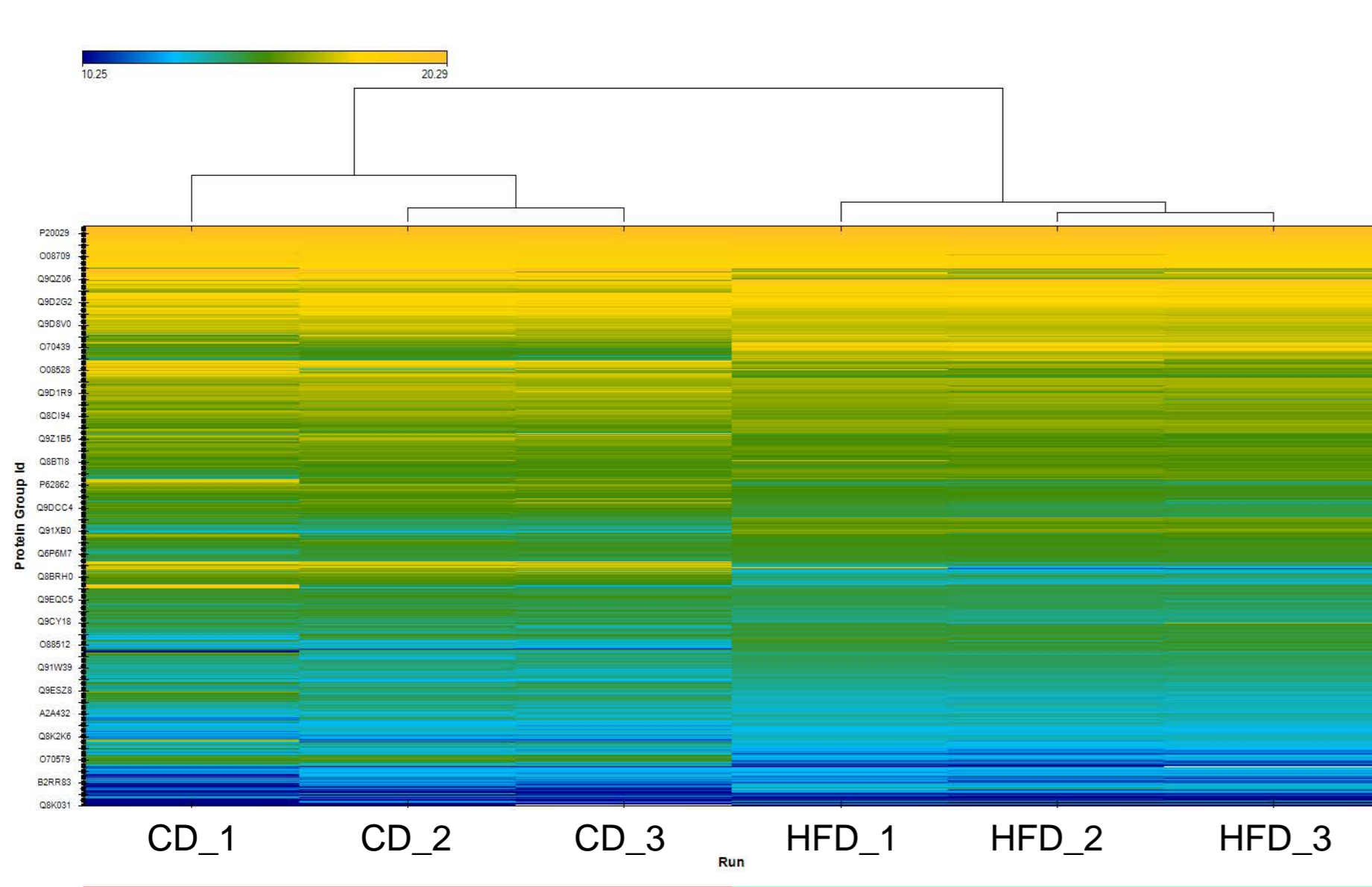


Workflow



Results

Different Protein Expression Patterns of Macrophages Between CD and HFD-Fed Mice



CD : Chow Diet
HFD: High Fat Diet

Proteins with Significantly Changed Levels of Expression Between CD and HFD-Fed Mice

