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# Overall protocol for top-down LC-MS/MS of human small intestine tissue

Overall protocol for top-down LC-MS/MS of human lung tissue

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[dx.doi.org/10.17504/protocols.io.b5tbq6in](https://dx.doi.org/10.17504/protocols.io.b5tbq6in)

Human BioMolecular Atlas Program (HuBMAP) Method Development Community

Kelleher Research Group



Kelleher KRG Research Group

Northwestern University, National Resource for Translational...

Overview description of the process for acquiring top-down LC-MS/MS data on human small intestine tissue

DOI

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## Tissue Collection

- 1 Small intestine tissue was provided by Stanford University TMC. Tissue was collected according to the following:

### Sample Preparation

## 2 Perform LC based Proteomics on adjacent tissue sections:



Tissue Homogenization and GELFrEE for Top-Down Proteomics  
by Kelleher KRG Research Group

### Data Acquisition

## 3



Untargeted Top-down Proteomics by LC-MS/MS on Lumos  
by Kelleher KRG Research Group,  
Northwestern University

PREVIEW

RUN



### Sample Preparation

## 4



Top-down proteomics data analysis on the NRTDP TDPortal  
by Kelleher KRG Research Group