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# 🌐 Overall protocol for top-down LC-MS/MS of human spleen tissue

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

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[dx.doi.org/10.17504/protocols.io.b5tgq6jw](https://dx.doi.org/10.17504/protocols.io.b5tgq6jw)

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 spleen tissue

DOI

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## Tissue Collection

- 1 Spleen tissue was provided by University of Florida TMC. Tissue was collected and prepared according to the following:



Case Processing SOP (Spleen)  
by **Marda Jorgensen**

PREVIEW

RUN



## 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



## Data Analysis

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