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

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1



[dx.doi.org/10.17504/protocols.io.b5tjq6kn](https://dx.doi.org/10.17504/protocols.io.b5tjq6kn)

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 heart tissue

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## Tissue Collection

- Heart tissue was provided by University of Washington. Tissue was collected and prepared according to the following:



Protocol for Tissue Collection from Organ Procurement Organization  
by

PREVIEW

RUN



## Sample Preparation

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



Tissue Homogenization and GELFrEE for Top-Down  
Proteomics  
by

[PREVIEW](#)[RUN](#)

## Data Acquisition

### 3



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

## Sample Preparation

### 4



Top-down proteomics data analysis on the NRTDP  
TDPortal  
by

[PREVIEW](#)[RUN](#)