



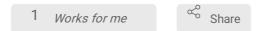
Sep 01, 2022

## © Overall protocol for MicroPOTS LCMS top down proteomics of pancreas tissue sections

Forked from Overall protocol for MicroPOTS LCMS top down proteomics of kidney tissue sections

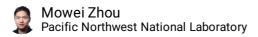
Mowei Zhou<sup>1</sup>, James M Fulcher<sup>1</sup>, Yen-Chen Liao<sup>1</sup>, Ljiljana.PasaTolic<sup>1</sup>

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#### **ABSTRACT**

This is the overall workflow for LCMS top down proteomics of pancreas functional units from tissue sections using the MicroPOTS platform. The expected outcomes are proteoform identification and quantitation values from selected tissue functional units.

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PROTOCOL CITATION

Mowei Zhou, James M Fulcher, Yen-Chen Liao, Ljiljana.PasaTolic 2022. Overall protocol for MicroPOTS LCMS top down proteomics of pancreas tissue sections. **protocols.io** 

https://protocols.io/view/overall-protocol-for-micropots-lcms-top-down-protecti4tkgw

FORK NOTE

FORK FROM

Forked from Overall protocol for MicroPOTS LCMS top down proteomics of kidney tissue sections, Mowei Zhou



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# **LICENSE** ¬ This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited **CREATED** Aug 19, 2022 LAST MODIFIED Sep 01, 2022 PROTOCOL INTEGER ID 68924 The tissue sections were prepared and shipped from Vanderbilt-TMC following the protocol Cryostat Sectioning of Tissues for 3D Multimodal Molecular Imaging by Jamie Allen Sample preparation Functional units (islet and acinar) were dissected and collected into the microPOTS platform using the method below: Laser Capture Microdissection of Tissue Functional Units **PREVIEW RUN** for microPOTS Top-Down Proteomics by James M Fulcher, **Pacific Northwest National lab**

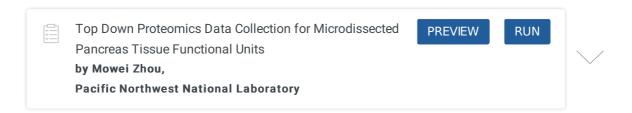
### Data Acquisition

2

Tissue collection

below:

The samples were analyzed by LCMS top down proteomics as described below:



### Data Analysis

4 LCMS datasets were analyzed for proteoform identification and quantitation. The final results are reported.

