

Jun 25, 2025

Version 2

Molecular Cartography/Resolve OCT Sectioning V.2

DOI

<https://dx.doi.org/10.17504/protocols.io.bp2l68bxrgqe/v2>

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Protocol Citation: Joanna Bi 2025. Molecular Cartography/Resolve OCT Sectioning. **protocols.io**

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Protocol status: Working

We use this protocol and it's working

Created: June 25, 2025

Last Modified: June 25, 2025

Protocol Integer ID: 220938

Keywords: oct samples for molecular cartography, sectioning oct sample, molecular cartography, oct sectioning protocol, oct, resolve, resolve oct sectioning protocol

Abstract

Protocol for sectioning OCT samples for Molecular Cartography/Resolve.

- 1 Set cryostat to -20° C. Place samples inside to acclimate to temperatures for 10 minutes.
- 2 Add OCT media to the chuck and place the sample block on top. Let freeze for 5 minutes.
- 3 Insert and fasten cryostat blade and set sectioning thickness to 30-60 um.
- 4 Place chuck in specimen station and adjust sample distance and angle to blade.
- 5 Trim sample block until desired depth is reached.
- 6 Lightly score block with a razor blade so that tissue fits within the designated scan areas on the 8-sample Resolve slides.
- 7 Section at 10 um (or other desired thickness) and place section within the a scan area of the slide.
- 8 Repeat as needed to fill the slide.
- 9 Store slides at -80°C directly after sectioning.