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Human Brain Tissue Processing

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We use this protocol and it's working

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Abstract

Standard processing for FFPE human midbrain tissue sections.



6µm formalin-fixed paraffin-embedded (FFPE) section preparation

- 1 FFPE cross-sectional midbrain tissue blocks from healthy controls without neurological or neuropathological diseases were obtained from the Sydney Brain Bank (n=10).
- 2 These tissue blocks were sectioned on a microtome at 6µm.
- 3 Sections were dried on microscope slides at 37°C for 48 hours.
- 4 Routine deparaffinization and dehydration procedure followed prior to immunohistochemical staining (10.17504/protocols.io.e6nvwnm57vmk/v1).

50µm serial section preparation

- 5 Formalin-fixed healthy control brainstems (n=4) were blocked transversely and postfixed for 24 hours at 4°C.
- 6 Blocks were cryoprotected in 30% buffered sucrose.
- 7 Blocks were sectioned on a freezing microtome at 50µm.

Nissl staining on 50µm serial sections

- 8 Sections at 750µm intervals were stained with 0.5% cresyl violet (HB5608 Hello Bio).