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Mouse Perfusion Protocol

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ABSTRACT

This protocol details the mouse perfusion procedure.

ATTACHMENTS

452-958.docx

Keywords: Mouse Perfusion Protocol, 1x K+-free PBS, Perfusion, ASAPCRN

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ASAP

For perfusion with 1x K+-free PBS:

1 Place mouse in isoflurane chamber until unresponsive to toe pinch stimuli.

2 Proceed to cut abdominal skin down both sides to expose the diaphragm.

3 Cut around diaphragm to expose the heart.

4 Cut right atria and insert perfusion needle into left ventricle with pump set to 5 rpm.

5 Perfuse 80 mL - 100 mL K+-free PBS until the liver is clear and liquid expelling from heart is completely clear.

6 Carefully remove brain and cut on mid-sagittal line using brain matrix.

7 Drop-fix left hemisphere in cold 4% paraformaldehyde for histological processing.

8 Sub-dissect right hemisphere for regions of interest.