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Version 1

Initial Rapid Pathology Assessment of Kidney Tissue V.1

DOI

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Protocol status: Working

We use this protocol and it's working

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Abstract

Scope:

Prepare formalin fixed tissue with freezing fresh tissue protocol (dx.doi.org/10.17504/protocols.io.6wghfbw).

This protocol provides the steps to prepare formalin fixed human kidney tissue and perform histology assessment for normalcy.

Expected Outcome:

Pathological assessment of kidney tissue for use in LC-MS/MS and imaging.



- 1 Once fixed (dx.doi.org/10.17504/protocols.io.6wghfbw) take tissue to pathology Core for paraffin emedding.
- 2 Section samples at 5 μ m.
- 3 PAS stain tissue sections (dx.doi.org/10.17504/protocols.io.4qngvve).
- 4 Scan slides with brightfield scanner (Leica) and save as .tiff or .jpg
- 5 Place saved images on QuPath for analysis.
- 6 Assess and record the following information for each tissue:
(%): cortex and medulla
(Yes/No): Pyramid Presence, Autolysis, Non-Renal disease (*i.e.* cancer)
(0=None – 3=Severe): Glomerular disease, Tubulointerstitial disease
- 7 Based on FFPE assessment, kidneys will be used accordingly:

LC-MS/MS normalcy:
low or no glomerular disease, and 75% or more cortex for normal
100% tumor for diseased

3D Imaging:
50:50 cortex:medulla
low or no glomerular disease
no renal disease