

The Common Coordinate Framework Registration User Interface (CCF RUI)



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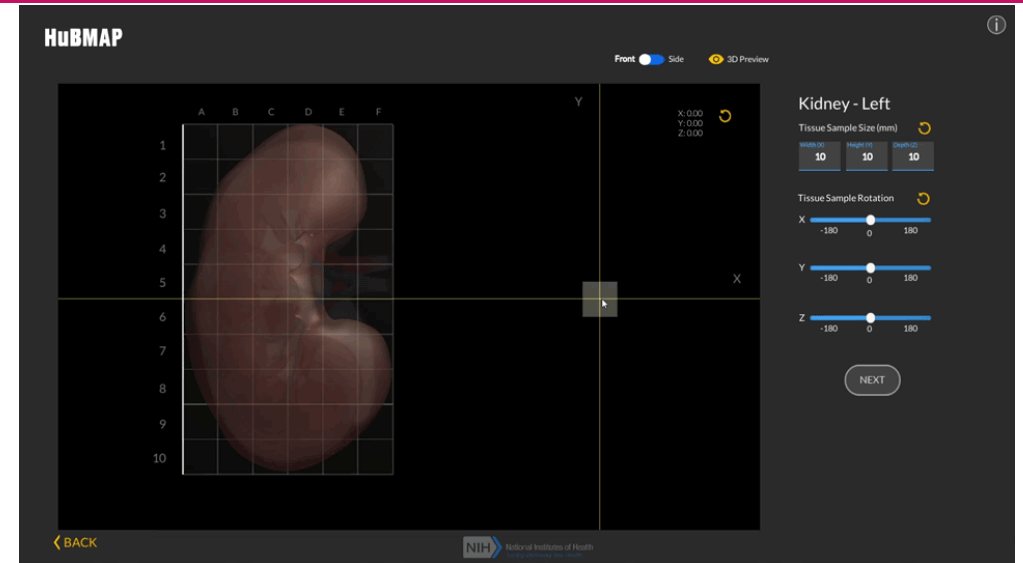
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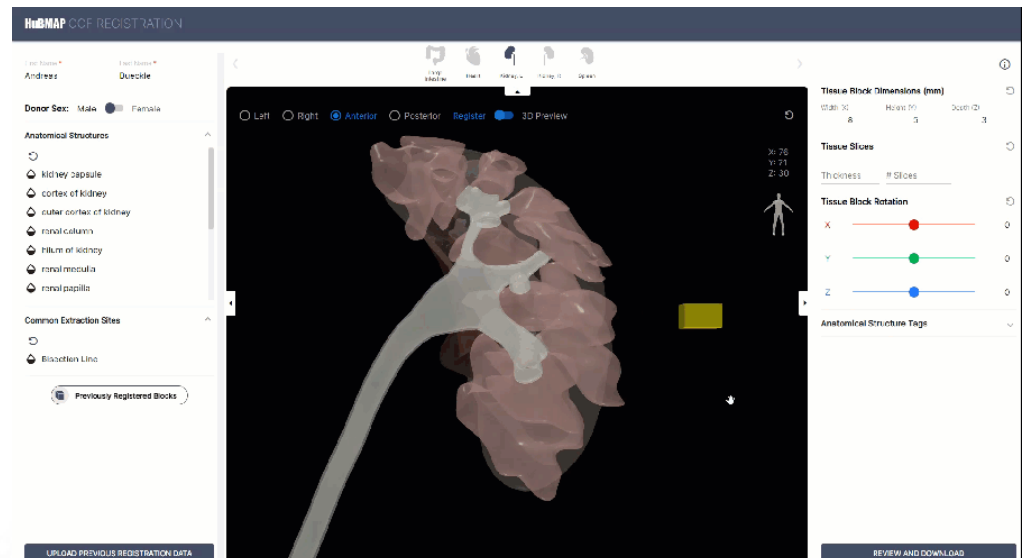
Spatial Biology Europe | April 15, 2021

Setting the Stage

- HuBMAP by NIH
- Goal: “Google Maps” of human body at single-cell resolution
- Our lab contributes the Registration User Interface (RUI)
 - v1.5 deployed in 03/2021
 - v0.6 deployed in 2019



RUI 0.6

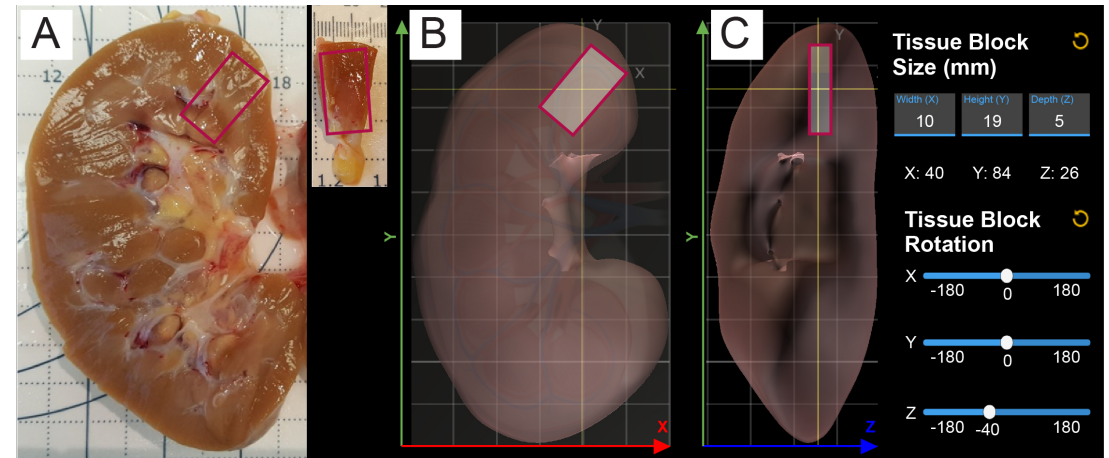


<https://hubmapconsortium.github.io/ccf-ui/rui/>

Warning: graphical images (human kidney) coming up!

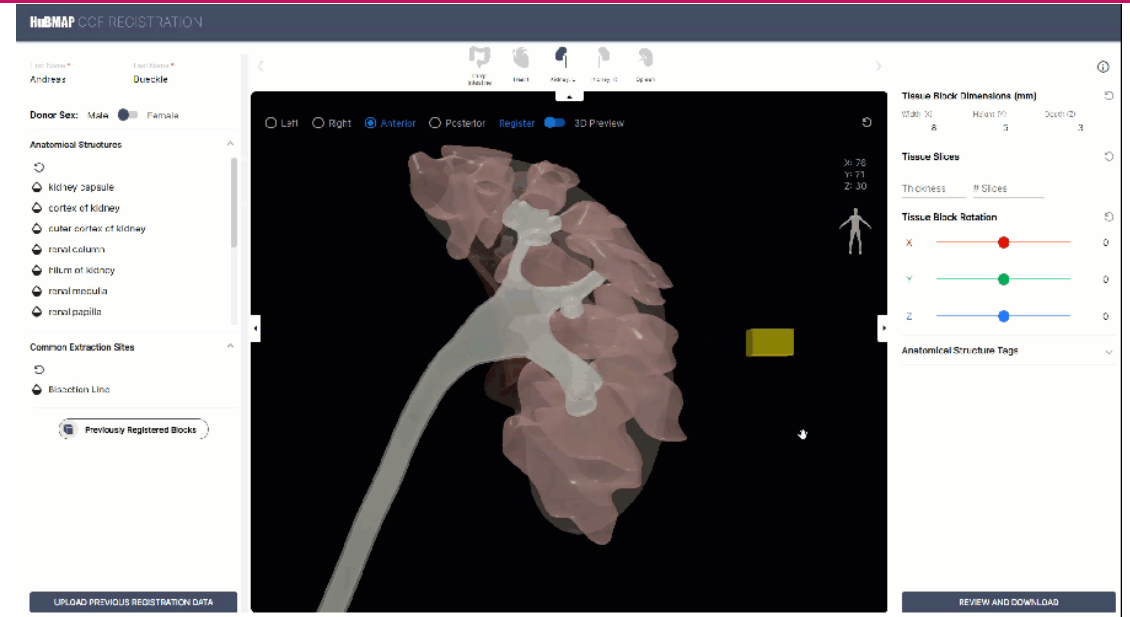
The Meat of the Matter

- Documenting tissue extraction sites is non-trivial
- Photos of reference organs (if available) on cutting boards with spatial markers
- We used the Visible Human male, left kidney (100 mm high, 60 mm wide, 40 mm deep)

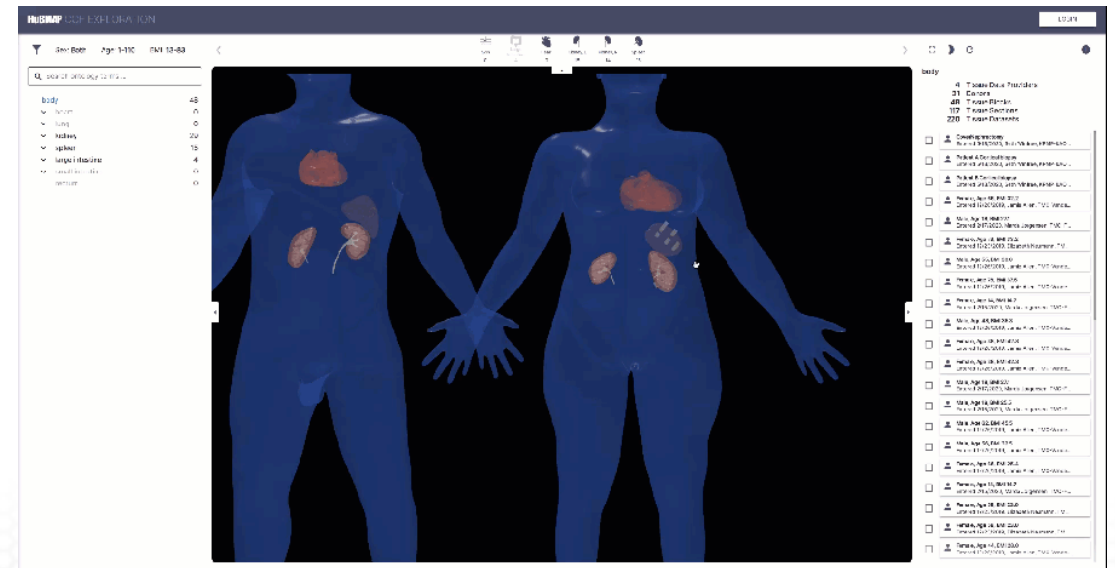


Discussion

- 2D Desktop validated as solution for gross-anatomical registration
- Precision of the mouse as an input device
- Separate manipulation of position and rotation
- 45 tissue blocks registered as of 03/2021
 - 15 left kidney
 - 15 spleen
 - 11 right kidney
 - 4 large intestine



RUI: <https://hubmapconsortium.github.io/ccf-ui/rui/>



EUI: <https://hubmap-ccf-ui.netlify.app/>

Q&A