Unsupervised Characterization of the NURTuRE Cohort Reveals Gene Expression and Tissue Remodeling Dynamics along a Synthetic CKD Progression Axis

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Conclusions and Outlook

- Unsupervised cohort characterization and multimodal data exploration enabled the careful selection and integration of disease-relevant biopsy transcriptional data into a molecular CKD progression axis. Pseudotemporal stratification of gene expression along this axis revealed groups of genes with shared expression dynamics corresponding to CKD disease progression.

- Overrepresentation analysis using the scDPA enables a mechanistic interpretation of molecular disease progression.

- Characterization of molecular mechanisms of disease in normal and maladaptive cell states.

References and Acknowledgement


3. QUID - The Quality in Organ Donation Initiative, https://www.quidinitiative.org


We gratefully acknowledge all patients, donors and researchers who have contributed to NURTuRE, Kidney Research UK and the QUID initiative, thus enabling the work presented on this poster.