

Resource Summary Report

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Kidney Precision Medicine Project

RRID:SCR_016920

Type: Tool

Proper Citation

Kidney Precision Medicine Project (RRID:SCR_016920)

Resource Information

URL: <https://kpmp.org>

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Description: Project to ethically obtain and evaluate human kidney biopsies from participants with Acute Kidney Injury (AKI) or Chronic Kidney Disease (CKD), create a kidney tissue atlas, define disease subgroups, and identify critical cells, pathways, and targets for novel therapies. Used to develop the next generation of software tools to visualize and understand the various components of kidney diseases and to optimize data collection. Multi site collaboration comprised of patients, clinicians, and investigators from across the United States.

Abbreviations: KPMP

Synonyms: Kidney Precision Medicine Project, The Kidney Precision Medicine Project

Resource Type: project portal, consortium, data or information resource, portal, narrative resource, availability annotation standard, standard specification, topical portal, disease-related portal, organization portal, the community can contribute to this resource, nif annotation standard

Keywords: ethically, obtain, evaluate, human, kidney, biopsy, collaboration, patient, clinician, researcher, acute, injury, chronic, disease, tissue, atlas, cell, pathway, target, novel, therapy, data, collection

Related Condition: Acute Kidney Injury, Chronic Kidney Disease

Funding: NIDDK

Availability: Open resource for academics, industry, and the broader scientific community

Resource Name: Kidney Precision Medicine Project

Resource ID: SCR_016920

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260801T190556+0000

Ratings and Alerts

No rating or validation information has been found for Kidney Precision Medicine Project.

No alerts have been found for Kidney Precision Medicine Project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 53 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Sharma A, et al. (2025) Integrating intramuscular fat radiomics with hamstrings-to-quadriceps structure and function ratios to predict future hamstring strain injury. PLOS digital health, 4(12), e0001144.

Levine SR, et al. (2025) Report of the 2023 Mary Tyler Moore Vision Initiative Workshop. Translational vision science & technology, 14(7), 11.

Matsui I, et al. (2025) Domain-adaptive semi-supervised learning for efficient rare pathological lesion detection with minimal annotation. NPJ digital medicine, 8(1), 778.

Nanamatsu A, et al. (2025) Refining the Composition and Significance of Human Renal Intratubular Casts Using Spatial Protein Imaging. medRxiv : the preprint server for health sciences.

Bueckle A, et al. (2025) Construction, Deployment, and Usage of the Human Reference Atlas Knowledge Graph for Linked Open Data. bioRxiv : the preprint server for biology.

Dayao MT, et al. (2025) Using spatial proteomics to enhance cell type assignments in histology images. Cell reports methods, 5(11), 101204.

Kurata Y, et al. (2025) Multiple instance learning using pathology foundation models effectively predicts kidney disease diagnosis and clinical classification. Scientific reports, 15(1), 35298.

Asghari M, et al. (2025) Integration of spatial protein imaging and transcriptomics in the human kidney tracks the regenerative potential of proximal tubules. Science advances, 11(33), eadv8918.

Husain I, et al. (2025) Targeting allograft inflammatory factor 1 reprograms kidney macrophages to enhance repair. The Journal of clinical investigation, 135(5).

Zhou F, et al. (2025) An initiative on digital nephrology: the Kidney Imageomics Project. National science review, 12(3), nwaf034.

Sun Y, et al. (2025) UHRF1 promotes calcium oxalate-induced renal fibrosis by renal lipid deposition via bridging AMPK dephosphorylation. Cell biology and toxicology, 41(1), 39.

Lim H, et al. (2025) Developmental Hypoxia Enhances Kidney Organoid Complexity and Maturity. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(40), e01661.

Saade MC, et al. (2025) Quinolinic acid metabolism may mitigate AKI to CKD transition. bioRxiv : the preprint server for biology.

Kim T, et al. (2024) Plasma Proteins Associated with Chronic Histopathologic Lesions on Kidney Biopsy. Journal of the American Society of Nephrology : JASN, 35(7), 910.

Zhang Y, et al. (2024) Identification of Spatial Specific Lipid Metabolic Signatures in Long-Standing Diabetic Kidney Disease. Metabolites, 14(11).

McFarlin BE, et al. (2024) Incretin and glucagon receptor polypharmacology in chronic kidney disease. American journal of physiology. Endocrinology and metabolism, 326(6), E747.

Ledru N, et al. (2024) Predicting proximal tubule failed repair drivers through regularized regression analysis of single cell multiomic sequencing. Nature communications, 15(1), 1291.

Chen TK, et al. (2024) Proteomics and Incident Kidney Failure in Individuals With CKD: The African American Study of Kidney Disease and Hypertension and the Boston Kidney Biopsy Cohort. Kidney medicine, 6(12), 100921.

Li D, et al. (2024) Multiomics Analyses Identify AKR1A1 as a Biomarker for Diabetic Kidney Disease. Diabetes, 73(7), 1188.

Choi S, et al. (2024) MicroRNA-5010-5p ameliorates high-glucose induced inflammation in renal tubular epithelial cells by modulating the expression of PPP2R2D. BMJ open diabetes research & care, 12(2).