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

Proper Citation: Kidney Precision Medicine Project (RRID:SCR_016920)

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: nif annotation standard, organization portal, portal, disease-related portal, standard specification, consortium, topical portal, the community can contribute to this resource, narrative resource, data or information resource, project portal, availability 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: 20250424T065452+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 39 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

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.

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

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.

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.

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

Gisch DL, et al. (2024) The chromatin landscape of healthy and injured cell types in the human kidney. Nature communications, 15(1), 433.

Riedhammer KM, et al. (2024) Implication of transcription factor FOXD2 dysfunction in syndromic congenital anomalies of the kidney and urinary tract (CAKUT). Kidney international, 105(4), 844.

Patel M, et al. (2024) Comprehensive analysis of the endothelin system in the kidneys of mice, rats, and humans. Bioscience reports, 44(7).

Darshi M, et al. (2024) Glycolytic lactate in diabetic kidney disease. JCI insight, 9(11).

Wilson PC, et al. (2024) Mosaic loss of Y chromosome is associated with aging and epithelial injury in chronic kidney disease. Genome biology, 25(1), 36.

Sachs W, et al. (2024) The proteasome modulates endocytosis specifically in glomerular cells to promote kidney filtration. Nature communications, 15(1), 1897.

Zhang M, et al. (2024) Co-regulation and synteny of GFM2 and NSA2 links ribosomal function in mitochondria and the cytosol with chronic kidney disease. Molecular medicine (Cambridge, Mass.), 30(1), 176.

Border S, et al. (2024) FUSION: A web-based application for in-depth exploration of multi-omics data with brightfield histology. bioRxiv : the preprint server for biology.

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

Hu H, et al. (2024) The SGLT2 inhibitor dapagliflozin ameliorates renal fibrosis in hyperuricemic nephropathy. Cell reports. Medicine, 5(8), 101690.

Schulz K, et al. (2024) Piezo activity levels need to be tightly regulated to maintain normal morphology and function in pericardial nephrocytes. Scientific reports, 14(1), 28254.

Wang M, et al. (2024) The advance of single cell transcriptome to study kidney immune cells in diabetic kidney disease. BMC nephrology, 25(1), 412.

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).

Schmidt IM, et al. (2024) Plasma proteomics of acute tubular injury. Nature communications, 15(1), 7368.

Hu H, et al. (2024) RBBP6-Mediated ERR? Degradation Contributes to Mitochondrial Injury in Renal Tubular Cells in Diabetic Kidney Disease. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(46), e2405153.