

Resource Summary Report

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GenitoUrinary Development Molecular Anatomy Project

RRID:SCR_001554

Type: Tool

Proper Citation

GenitoUrinary Development Molecular Anatomy Project (RRID:SCR_001554)

Resource Information

URL: <http://www.gudmap.org>

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Description: Project aggregates and provides experimental gene expression data from genito-urinary system. International consortium providing molecular atlas of gene expression for developing organs of GenitoUrinary (GU) tract. Mouse strains to facilitate developmental and functional studies within GU system. Experimental protocols and standard specifications. Tutorials describing GU organogenesis and primary data via database. Data are from large-scale in situ hybridization screens (wholemound and section) and microarray gene expression data of microdissected, laser-captured and FACS-sorted components of developing mouse genitourinary (GU) system.

Abbreviations: GUDMAP

Synonyms: Murine Atlas for Genitourinary Development

Resource Type: biomaterial supply resource, material resource, organism supplier

Defining Citation: [PMID:21652655](#), [PMID:18287559](#)

Keywords: gene expression, genitourinary tract, molecular anatomy, genitourinary system, organogenesis, genitourinary, in situ hybridization, immunohistochemistry, microarray, mutant mouse strain, development, rna, protein, theiler stage, gene, anatomy, male, female, embryonic mouse, kidney, urogenital tract, urinary, reproductive, disease, molecule, cell, gene, phenotype, functional annotation, protein interaction, transgenic transgene, image, rna extraction, sample preparation, fluorescent immunohistochemistry, rna isolation, rna amplification, labeling, fluorescent in situ-hybridization, riboprobe synthesis, cellular localization, tissue isolation, embedding, cryostat sectioning, laser capture microdissection, paraffin, whole mount, optimal cutting temperature, riboprobe

synthesis, target amplification, sectioning, FASEB list

Funding: NIDDK DK070136;
NIDDK DK070181;
NIDDK DK070200

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: GenitoUrinary Development Molecular Anatomy Project

Resource ID: SCR_001554

Alternate IDs: nlx_152871, nif-0000-33426

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260821T193632+0000

Ratings and Alerts

No rating or validation information has been found for GenitoUrinary Development Molecular Anatomy Project .

No alerts have been found for GenitoUrinary Development Molecular Anatomy Project .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 289 mentions in open access literature.

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

G??l H, et al. (2025) Targeting TRPM3 as a potential therapeutic approach for autosomal dominant polycystic kidney disease. Scientific reports, 15(1), 4714.

Treacy NJ, et al. (2023) Growth and differentiation of human induced pluripotent stem cell (hiPSC)-derived kidney organoids using fully synthetic peptide hydrogels. Bioactive materials, 21, 142.

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Honeycutt SE, et al. (2023) Netrin 1 directs vascular patterning and maturity in the developing kidney. Development (Cambridge, England), 150(22).

Honeycutt SE, et al. (2023) Netrin-1 directs vascular patterning and maturity in the developing kidney. bioRxiv : the preprint server for biology.

- Goea L, et al. (2022) Hnf1b renal expression directed by a distal enhancer responsive to Pax8. *Scientific reports*, 12(1), 19921.
- Ahuja N, et al. (2022) Endothelial Cyp26b1 restrains murine heart valve growth during development. *Developmental biology*, 486, 81.
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- Kohl S, et al. (2021) Molecular causes of congenital anomalies of the kidney and urinary tract (CAKUT). *Molecular and cellular pediatrics*, 8(1), 2.