Resource Summary Report

Generated by Kravitz on Sep 10, 2026

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 (wholemount 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: 20260905T132436+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 Kravitz .

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

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Ahuja N, et al. (2022) Endothelial Cyp26b1 restrains murine heart valve growth during development. Developmental biology, 486, 81.

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Mingardo E, et al. (2022) A genome-wide association study with tissue transcriptomics identifies genetic drivers for classic bladder exstrophy. Communications biology, 5(1), 1203.

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Zou J, et al. (2021) The Versatile Gasdermin Family: Their Function and Roles in Diseases. Frontiers in immunology, 12, 751533.

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Dai G, et al. (2021) Recent Advances in Cellular and Molecular Bioengineering for Building and Translation of Biological Systems. Cellular and molecular bioengineering, 14(4), 293.

de Boer IH, et al. (2021) Rationale and design of the Kidney Precision Medicine Project. Kidney international, 99(3), 498.

Ding F, et al. (2021) Determination of the dynamic cellular transcriptional profiles during kidney development from birth to maturity in rats by single-cell RNA sequencing. Cell death discovery, 7(1), 162.

Kohl S, et al. (2021) Molecular causes of congenital anomalies of the kidney and urinary tract (CAKUT). Molecular and cellular pediatrics, 8(1), 2.