



[www.gudmap.org](http://www.gudmap.org)

## Answer to GUDMAP Exercise Question 9:

How do you dissociate adult mouse Dorsal Root Ganglia (DRG) for Fluorescence-activated cell sorting (FACS)?

*GUDMAP Editorial Office  
University of Edinburgh, UK  
Email: [gudmap-editors@gudmap.org](mailto:gudmap-editors@gudmap.org)*

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updated: 20-01-14

**Database Statistics**

Assay Type	Entries	Genes
All In Situ Hybridisation (ISH):	10758	3692
Wholemount ISH (WISH):	7288	2896
Section ISH (SISH):	3406	1436
OPT ISH:	64	32
Immunohistochemistry (IHC):	326	20
Transgenic Reporters:	41	28
Microarray:	461	-

[More ...](#)

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[Marker Mouse Strains](#)

**NEW**  
Reporter Strain Nominations

**Select Resources**

The **GenitoUrinary Development Molecular Anatomy Project** (GUDMAP) is a consortium of laboratories working to provide the scientific and medical community with tools to facilitate research. The key components are:

- a molecular atlas of gene expression for the developing organs of the GenitoUrinary (GU) tract
- a high resolution molecular anatomy that highlights development of the GU system
- mouse strains to facilitate developmental and functional studies within the GU system
- tutorials describing GU organogenesis
- rapid access to primary data via the GUDMAP database

The GUDMAP tools, web site and database are a public resource funded by the National Institutes of Health, USA.

[Web Demos](#) [Download Data](#) [Development Tutorials](#)

**Developmental Cell**  
Gandhi et al. Editors  
Development and Disease  
Dev Cell, 2013 Sep 16;28(5):469-82.

[Image use policy](#)

- Expression Database
- Tissue Summaries
- Analysis
- Downloads
- Data Source
- Collections

### Expression Database

**Query**

Gene

Anatomy

Boolean Anatomy

Accession ID

Gene Function

Disease

**Browse**

Series

Sample

Array  Platform

Seq  Series

Theiler Stage  Sample

Gene  WISH

In situ  SISH

Transgenic  OPT

IHC

- Submission Archive
- Project Protocols**
- Mice/Cell Lines
- 3D Atlas
- Ontology
- Schematics
- Biomart
- UQ GUDMAP - Probe Design
- Web Stats
- Internal



Select Project Protocols

**Assay**

ISH		
WISH		
SISH	1436	3406
OPT	32	64
IHC	20	326
Tg	24	62
Microarray		461

Last Editorial Update: 19-Nov-2014  
Last Software Update: 24-Nov-2014 (V 5.5.24)

Focus by Organ / System

- Metanephros
- Lower urinary tract
- Early reproductive system
- Male reproductive system
- Female reproductive system

# GUDMAP Protocols

## Edinburgh Core Database Group

- ISH / IHC / Tg Data
  - Standards for in GUDMAP in situ hybridisation and immunohistochemistry entries
  - Manual checking protocols
  - Automated checking protocols
  - Annotation Tool checking protocols
- Microarray Data
  - Standards for GUDMAP cDNA microarray entries
  - SOFT mapping protocol
  - Normalisation of cDNA microarray CHP files
  - Manual checking protocols
- Database Development
  - Quality Control
  - Testing
  - Bug Fixing
- Data Submission Flow Diagram

## Capel Group

- FACS Protocol
- RNA extraction and sample preparation for Affymetrix Gene 1.0 ST arrays

## Cohn Group

- Sex Genotyping of Mice
- Tissue Collection Protocol for Laser Capture Micro-dissection (LCM) of 13.5dpc Mouse Urethra and Hindgut
- Digoxigenin-labeled riboprobe synthesis from plasmid template
- Whole mount *in situ* hybridization
- Optical Projection Tomography (OPT)

## Gaido Group

- Fluorescent Immunocytochemistry Protocol on Frozen sections
- Whole-Mount Indirect Fluorescent Immunohistochemistry – Double or multiple staining
- Staining of frozen sections for LCM
- RNA isolation from LCM samples
- RNA isolation from whole testis
- RNA amplification and labeling of LCM samples for microarrays
- Microarrays
- GUDMAP - SOP "In Situ-Hybridization"
- GUDMAP - SOP "Fluorescent In Situ-Hybridization"
- GUDMAP - SOP "One-color FISH Protocol"
- GUDMAP - SOP "Two-color FISH Protocol"
- Riboprobe Synthesis
- Determination of Cellular Localization of ISH Patterns

Select Jain Group to download protocol



## Jain Group

- E12.5 & E14.5 mouse DRG dissociation for FACS
- E18.5 mouse DRG dissociation for FACS
- Adult mouse DRG dissociation for FACS
- Library construction protocol for nanogram amounts of total RNA for RNAseq - HIGH VOLUME
- Library construction protocol for nanogram amounts of total RNA for RNAseq - LOW VOLUME
- RNAseq QC



Scroll to find the 'Adult mouse DRG dissociation for FACS' protocol

# Jain Group Protocols

[these are all Word files]

## Mouse DRG dissociation for FACS Protocols

- [E12.5 & E14.5 mouse DRG dissociation for FACS](#)
- [E18.5 mouse DRG dissociation for FACS](#)
- [Adult mouse DRG dissociation for FACS](#)

Select to download 'Adult mouse DRG dissociation for FACS' protocol

## RNA-SEQ Protocols

- [Library construction protocol for nanogram amounts of total RNA for RNAseq - HIGH\\_VOLUME](#)
- [Library construction protocol for nanogram amounts of total RNA for RNAseq - LOW\\_VOLUME](#)
- [RNAseq QC protocol \(.docx\)](#)

## Group Description

- Question 9: How do you dissociate adult mouse Dorsal Root Ganglia (DRG) for Fluorescence-activated cell sorting (FACS)?
- *Answer: Found within Jain Group Protocols.*