

Resource Summary Report

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HUDSEN Human Gene Expression Spatial Database

RRID:SCR_006325

Type: Tool

Proper Citation

HUDSEN Human Gene Expression Spatial Database (RRID:SCR_006325)

Resource Information

URL: http://vinovia.ncl.ac.uk/emagewebapp/pages/eadhb_home.jsf

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Description: Database of a set of standard 3D virtual models at different stages of development from Carnegie Stages (CS) 12-23 (approximately 26-56 days post conception) in which various anatomical regions have been defined with a set of anatomical terms at various stages of development (known as an ontology). Experimental data is captured and converted to digital format and then mapped to the appropriate 3D model. The ontology is used to define sites of gene expression using a set of standard descriptions and to link the expression data to an "anatomical tree". Human data from stages CS12 to CS23 can be submitted to the HUDSEN Gene Expression Database. The anatomy ontology currently being used is based on the Edinburgh Human Developmental Anatomy Database which encompasses all developing structures from CS1 to CS20 but is not detailed for developing brain structures. The ontology is being extended and refined (by Prof Luis Puelles, University of Murcia, Spain) and will be incorporated into the HUDSEN database as it is developed. Expression data is annotated using two methods to denote sites of expression in the embryo: spatial annotation and text annotation. Additionally, many aspects of the detection reagent and specimen are also annotated during this process (assignment of IDs, nucleotide sequences for probes etc). There are currently two main ways to search HUDSEN - using a gene/protein name or a named anatomical structure as the query term. The entire contents of the database can be browsed using the data browser. Results may be saved. The data in HUDSEN is generated from both from researchers within the HUDSEN project, and from the wider scientific community. The HUDSEN human gene expression spatial database is a collaboration between the Institute of Human Genetics in Newcastle, UK, and the MRC Human Genetics Unit in Edinburgh, UK, and was developed as part of the Electronic Atlas of the Developing Human Brain (EADHB) project (funded by the NIH Human Brain Project). The database is based on the Edinburgh Mouse Atlas gene expression database (EMAGE), and is designed to be an openly available resource to the research community holding gene expression patterns during early human development.

Abbreviations: HUDSEN Database

Synonyms: HUDSEN Gene Expression Database

Resource Type: service resource, data repository, atlas, data or information resource, database, storage service resource

Defining Citation: [PMID:20979583](#)

Keywords: embryonic human, anatomy, developmental stage, development, brain, gene expression, optical projection tomography, carnegie stage, in situ hybridization, immunohistochemistry, gene, ontology, anatomical structure, protein expression, embryonic development, annotation, embryo

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Availability: Open unspecified license, Acknowledgement requested

Resource Name: HUDSEN Human Gene Expression Spatial Database

Resource ID: SCR_006325

Alternate IDs: nlx_152026

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260731T042722+0000

Ratings and Alerts

No rating or validation information has been found for HUDSEN Human Gene Expression Spatial Database.

No alerts have been found for HUDSEN Human Gene Expression Spatial Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.