Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 26, 2025

GEISHA - Gallus Expression in Situ Hybridization Analysis: A Chicken Embryo Gene Expression Database

RRID:SCR_007440
Type: Tool

Proper Citation

GEISHA - Gallus Expression in Situ Hybridization Analysis: A Chicken Embryo Gene Expression Database (RRID:SCR_007440)

Resource Information

URL: http://www.geisha.arizona.edu/geisha/

Proper Citation: GEISHA - Gallus Expression in Situ Hybridization Analysis: A Chicken Embryo Gene Expression Database (RRID:SCR_007440)

Description: Online repository for chicken in situ hybridization information. This site presents whole mount in situ hybridization images and corresponding probe and genomic information for genes expressed in chicken embryos in Hamburger Hamilton stages 1-25 (0.5-5 days). The GEISHA project began in 1998 to investigate using high throughput whole mount in situ hybridization to identify novel, differentially expressed genes in chicken embryos. An initial expression screen of approximately 900 genes demonstrated feasibility of the approach, and also highlighted the need for a centralized repository of in situ hybridization expression data. Objectives: The goals of the GEISHA project are to obtain whole mount in situ hybridization expression information for all differentially expressed genes in the chicken embryo between HH stages 1-25, to integrate expression data with the chicken genome browsers, and to offer this information through a user-friendly graphical user interface. In situ hybridization images are obtained from three sources: 1. In house high throughput in situ hybridization screening: cDNAs obtained from several embryonic cDNA libraries or from EST repositories are screened for expression using high throughput in situ hybridization approaches. 2. Literature curation: Agreements with journals permit posting of published in situ hybridization images and related information on the GEISHA site. 3. Unpublished in situ hybridization information from other laboratories: laboratories generally publish only a small fraction of their in situ hybridization data. High quality images for which probe identity can be verified are welcome additions to GEISHA.

Abbreviations: GEISHA

Synonyms: Gallus Expression in Situ Hybridization Analysis, GEISHA - Gallus Expression in Situ Hybridization Analysis

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

Keywords: expression data, expression pattern, gene, gene expression, genome, chicken, chicken embryo, genomic, in situ hybridization, mapping, microarray, microrna, model organism, oligo, probe, stage, image, molecular neuroanatomy resource, embryo, embryonic chicken

Funding: NIH ;
NICHD R01HD044767

Resource Name: GEISHA - Gallus Expression in Situ Hybridization Analysis: A Chicken Embryo Gene Expression Database

Resource ID: SCR_007440

Alternate IDs: nif-0000-01251

Record Creation Time: 20220129T080241+0000

Record Last Update: 20250426T055932+0000

Ratings and Alerts

No rating or validation information has been found for GEISHA - Gallus Expression in Situ Hybridization Analysis: A Chicken Embryo Gene Expression Database.

No alerts have been found for GEISHA - Gallus Expression in Situ Hybridization Analysis: A Chicken Embryo Gene Expression Database.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Somorjai IML, et al. (2018) Wnt evolution and function shuffling in liberal and conservative chordate genomes. Genome biology, 19(1), 98.