Resource Summary Report

Generated by NIF on May 21, 2025

HemBase

RRID:SCR_002880
Type: Tool

Proper Citation

HemBase (RRID:SCR_002880)

Resource Information

URL: http://hembase.niddk.nih.gov/

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Description: Database designed for web-based examination of the human erythroid transcriptome. The database is organized to provide a cytogenetic band position, a unique name as well as a concise annotation for each entry. Search queries may be performed by name, keyword or cytogenetic location. Search results are linked to primary sequence data and three major human genome browsers for access to information considered current at the time of each search. Hembase provides interested scientists and clinical hematologists with a genome-based approach toward the study of erythroid biology. Red blood cells in the circulation arise from hematopoietic stem cells that proliferate as erythroid progenitors and differentiate into erythroid precursor cells in response to the hormone erythropoietin. Messenger RNA was isolated from those cells and used to generate gene libraries. Sequencing several thousand expressed sequence tags (EST) from those libraries was then performed. Those EST and sequences encoding several hundred additional genes with known expression in erythroid cells are compiled here as a database of human erythroid gene activity. The database is organized and linked according to the location of these sequences within the human genome.

Synonyms: Hembase

Resource Type: data or information resource, database, resource

Defining Citation: PMID:14681483, PMID:10409428

Keywords: erythroid, erythroid cell, erythroblast, expressed sequenced tag, transcriptome, gene, erythropoiesis, cytogenetic location, hematology, genome, red blood cell, progenitor cell, precursor cell, chromosome

Related Condition: Anemia, Erythroleukemia, Malaria, Erythroid cell related disease

Funding: NIDDK 1ZIADK025098

Availability: Public

Resource Name: HemBase

Resource ID: SCR_002880

Alternate IDs: nif-0000-02949

Record Creation Time: 20220129T080215+0000

Record Last Update: 20250521T060905+0000

Ratings and Alerts

No rating or validation information has been found for HemBase .

No alerts have been found for HemBase .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Mettananda S, et al. (2019) Synergistic silencing of ?-globin and induction of ?-globin by histone deacetylase inhibitor, vorinostat as a potential therapy for ?-thalassaemia. Scientific reports, 9(1), 11649.

Lichtenberg J, et al. (2016) SBR-Blood: systems biology repository for hematopoietic cells. Nucleic acids research, 44(D1), D925.

Zhang Q, et al. (2016) Biological Databases for Hematology Research. Genomics, proteomics & bioinformatics, 14(6), 333.

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic

acids research, 33(Database issue), D5.