Resource Summary Report

Generated by dkNET on Sep 19, 2026

StemBase

RRID:SCR_006252
Type: Tool

Proper Citation

StemBase (RRID:SCR_006252)

Resource Information

URL: http://www.stembase.ca

Proper Citation: StemBase (RRID:SCR_006252)

Description: A publicly accessible database containing data on Affymetrix DNA microarray experiments, and Serial Analysis of Gene Expression, mostly on human and mouse stem cell samples and their derivatives to facilitate the discovery of gene functions relevant to stem cell control and differentiation. It has grown in both size and scope into a system with analysis tools that examine either the whole database at once, or slices of data, based on tissue type, cell type or gene of interest. There is currently more than 210 stem cell samples in 60 different experiments, with more being added regularly. The samples were originated by researchers of the Stem Cell Network and processed at the Core Facility of Stemcore Laboratories under the management of Ms. Pearl Campbell in the frame of the Stem Cell Genomics Project. Periodically, new expression data is submitted to the Gene Expression Omnibus (GEO) repository at the National Center for Biotechnological Information, in order to allow researchers to compare the data deposited in StemBase to a large amount of gene expression data sets. StemBase is different from GEO in both focus and scope. StemBase is concerned exclusively with stem cell related data. we are focused in Stem Cell research. We have made a significant effort to ensure the quality and consistency of the data included. This allows us to offer more specialized analysis tools related to Stem Cell data. GEO is intended as a large scale public archive. Deposition in a public repository such as GEO is required by most important scientific journals and it is advantageous for a further diffusion of the data since GEO is more broadly used than StemBase.

Abbreviations: StemBase

Synonyms: Stem Cell Genomics database

Resource Type: analysis service resource, data analysis service, data or information resource, database, production service resource, service resource

Defining Citation: PMID:19284540, PMID:18453254, PMID:15763554

Keywords: stem cell, gene expression, dna microarray, correlation tool, serial analysis of gene expression, correlation

Funding: Genome Canada ;
Canadian Stem Cell Network ;
Canadian Institutes of Health Research ;
Canada Research Chairs

Availability: Publicly accessible. Please cite.

Resource Name: StemBase

Resource ID: SCR_006252

Alternate IDs: nlx_151919

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260919T195107+0000

Ratings and Alerts

No rating or validation information has been found for StemBase.

No alerts have been found for StemBase.

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 dkNET .

Morgan MD, et al. (2018) CpG island composition differences are a source of gene expression noise indicative of promoter responsiveness. Genome biology, 19(1), 81.

Hall J, et al. (2009) Oct4 and LIF/Stat3 additively induce Kr??ppel factors to sustain embryonic stem cell self-renewal. Cell stem cell, 5(6), 597.

Sandie R, et al. (2009) Recent developments in StemBase: a tool to study gene expression in human and murine stem cells. BMC research notes, 2, 39.

Krzyzanowski PM, et al. (2007) Identification of novel stem cell markers using gap analysis of gene expression data. Genome biology, 8(9), R193.