Resource Summary Report

Generated by NIF on May 16, 2025

GermOnline

RRID:SCR_002807
Type: Tool

Proper Citation

GermOnline (RRID:SCR_002807)

Resource Information

URL: http://www.germonline.org/

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Description: Cross-species microarray expression database focusing on high-throughput expression data relevant for germline development, meiosis and gametogenesis as well as the mitotic cell cycle. The database contains a unique combination of information: 1) High-throughput expression data obtained with whole-genome high-density oligonucleotide microarrays (GeneChips). 2) Sample annotation (mouse over the sample name and click on it) using the Multiomics Information Management and Annotation System (MIMAS 3.0). 3) In vivo protein-DNA binding data and protein-protein interaction data (available for selected species). 4) Genome annotation information from Ensembl version 50. 5) Orthologs are identified using data from Ensembl and OMA and linked to each other via a section in the report pages. The portal provides access to the Saccharomyces Genomics Viewer (SGV) which facilitates online interpretation of complex data from experiments with high-density oligonucleotide tiling microarrays that cover the entire yeast genome. The database displays only expression data obtained with high-density oligonucleotide microarrays (GeneChips).

Abbreviations: GermOnline

Resource Type: data or information resource, database

Defining Citation: PMID:21149299

Keywords: fertility, development, germline, microarray, annotation, in vivo, protein-dna binding, protein-protein interaction, genome, ortholog, high-density oligonucleotide microarray, gene expression, genome annotation, gene orthology, genechip, tiling array, development, meiosis, gametogenesis, mitotic cell cycle, data set, data repository, bio.tools

Funding: Swiss Institute of Bioinformatics ;
bioinformatics platform of Biogenouest ;
National Institute of Health and Medical Research; Rennes; France ;
University of Rennes 1; Rennes; France

Availability: Free, Acknowledgement requested, The community can contribute to this resource

Resource Name: GermOnline

Resource ID: SCR_002807

Alternate IDs: biotools:germonline, nif-0000-02906

Alternate URLs: https://bio.tools/germonline

Record Creation Time: 20220129T080215+0000

Record Last Update: 20250507T060102+0000

Ratings and Alerts

No rating or validation information has been found for GermOnline.

No alerts have been found for GermOnline.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Jamin SP, et al. (2021) Combined RNA/tissue profiling identifies novel Cancer/testis genes. Molecular oncology, 15(11), 3003.

Hadziselimovic F, et al. (2019) Testicular expression of long non-coding RNAs is affected by curative GnRHa treatment of cryptorchidism. Basic and clinical andrology, 29, 18.

Jamin SP, et al. (2017) EXOSC10/Rrp6 is post-translationally regulated in male germ cells and controls the onset of spermatogenesis. Scientific reports, 7(1), 15065.

Borowiec AS, et al. (2016) Cold/menthol TRPM8 receptors initiate the cold-shock response

and protect germ cells from cold-shock-induced oxidation. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 30(9), 3155.

Luangpraseuth-Prosper A, et al. (2015) TOPAZ1, a germ cell specific factor, is essential for male meiotic progression. Developmental biology, 406(2), 158.

Kistler WS, et al. (2015) RFX2 Is a Major Transcriptional Regulator of Spermiogenesis. PLoS genetics, 11(7), e1005368.

Pattabiraman S, et al. (2015) Mouse BRWD1 is critical for spermatid postmeiotic transcription and female meiotic chromosome stability. The Journal of cell biology, 208(1), 53.

Becker E, et al. (2015) Integrated RNA- and protein profiling of fermentation and respiration in diploid budding yeast provides insight into nutrient control of cell growth and development. Journal of proteomics, 119, 30.

Zhu ZJ, et al. (2015) Transcriptome research on spermatogenic molecular drive in mammals. Asian journal of andrology, 17(6), 961.

Goldschmidt Y, et al. (2015) Control of relative timing and stoichiometry by a master regulator. PloS one, 10(5), e0127339.

Goldman A, et al. (2014) Identifier (ID) elements are not preferentially located to brain-specific genes: high ID element representation in other tissue-specific- and housekeeping genes of the rat. Gene, 533(1), 72.

O'Donnell L, et al. (2014) Microtubules and spermatogenesis. Seminars in cell & developmental biology, 30, 45.

Com E, et al. (2014) Proteomics and integrative genomics for unraveling the mysteries of spermatogenesis: the strategies of a team. Journal of proteomics, 107, 128.

Primig M, et al. (2012) The bioinformatics tool box for reproductive biology. Biochimica et biophysica acta, 1822(12), 1880.

Saito M, et al. (2010) Targeted disruption of Ing2 results in defective spermatogenesis and development of soft-tissue sarcomas. PloS one, 5(11), e15541.

Lardenois A, et al. (2010) GermOnline 4.0 is a genomics gateway for germline development, meiosis and the mitotic cell cycle. Database : the journal of biological databases and curation, 2010, baq030.

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic acids research, 33(Database issue), D5.