Genomatix Software: Understanding Gene Regulation

RRID:SCR_008036
Type: Tool

Proper Citation

Genomatix Software: Understanding Gene Regulation (RRID:SCR_008036)

Resource Information

URL: http://www.genomatix.de/

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Description: Genomatix is a privately held company that offers software, databases, and services aimed at understanding gene regulation at the molecular level representing a central part of systems biology. Its multilayer integrative approach is a working implementation of systems biology principles. Genomatix combines sequence analysis, functional promoter analysis, proprietary genome annotation, promoter sequence databases, comparative genomics, scientific literature data mining, pathway databases, biological network databases, pathway analysis, network analysis, and expression profiling into working solutions and pipelines. It also enables better understanding of biological mechanisms under different conditions and stimuli in the biological context of your data. Some of Genomatix" most valuable assets are the strong scientific background and the years of experience in research & discovery as well as in development & application of scientific software. Their firsthand knowledge of all the complexities involved in the in-silico analysis of biological data makes them a first-rate partner for all scientific projects involving the evaluation of gene regulatory mechanisms. The Genomatix team has more than a decade of scientific expertise in the successful application of computer aided analysis of gene regulatory networks, which is reflected by more than 150 peer reviewed scientific publications from Genomatix" scientists More than 35,000 researchers in industry and academia around the world use this technology. The software available in Genomatix are: - GenomatixSuite: GenomatixSuite is our comprehensive software bundle including ElDorado, Gene2Promoter, GEMS Launcher, MatInspector and MatBase. GenomatixSuite PE also includes BiblioSphere Pathway Edition. Chromatin IP Software - RegionMiner: Fast, extensive analysis of genomic regions. - ChipInspector: Discover the real power of your microarray data. Genome Annotation Software - ElDorado: Extended Genome Annotation. - Gene2Promoter: Retrieve & analyze promoters - GPD: The Genomatix Promoter Database,

which is now included with Gene2Promoter. Knowledge Mining Software - BiblioSpere : The next level of pathway/genomics analysis. - LitInspector: Literature and pathway analysis for free. Sequence Analysis Software - GEMS Launcher: Our integrated collection of sequence analysis tools. - MalInspector: Search transcription factor binding sites - MatBase: The transcription factor knowledge base. Other (no registration required) Software - DiAlign: Multiple alignment of DNA/protein sequence. - Genomatix tools: Various small tools for sequence statistics, extraction, formatting, etc.

Synonyms: Genomatix

Resource Type: short course material, software application, topical portal, database, portal, data or information resource, narrative resource, data analysis software, data processing software, training material, software resource

Keywords: effect, expression, functional, gene, genome, alignment, analysis, annotation, biological, cascade, cell, data, dna, in-silico analysis, mechanism, metabolic pathway, microarray, mining, molecular, network, pathway, promoter, protein, region, regulation, scientific, sequence, signaling, software, stimulus, systems biology, technology, text mining, transcription, FASEB list

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Old URLs: http://www.genomatix.de/products/index.html

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Ratings and Alerts

No rating or validation information has been found for Genomatix Software: Understanding Gene Regulation.

No alerts have been found for Genomatix Software: Understanding Gene Regulation.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 793 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

Chu WK, et al. (2025) Migration of primordial germ cells and their relationship of PGCs with sex development in transgenic germline-specific fluorescent freshwater angelfish (Pterophyllum scalare). Scientific reports, 15(1), 1308.

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Sun X, et al. (2024) Genetic and epigenetic regulation of cortactin (CTTN) by inflammatory factors and mechanical stress in human lung endothelial cells. Bioscience reports, 44(9).

Shen J, et al. (2024) SM22? deficiency: promoting vascular fibrosis via SRF-SMAD3-mediated activation of Col1a2 transcription following arterial injury. Research square.

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Angulo-Aguado M, et al. (2023) Functional analysis of CTLA4 promoter variant and its possible implication in colorectal cancer immunotherapy. Frontiers in medicine, 10, 1160368.

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Zeng S, et al. (2022) Aberrant expression of the extracellular matrix component Biglycan regulated by Hedgehog signalling promotes colorectal cancer cell proliferation. Acta biochimica et biophysica Sinica, 54(2), 243.