Resource Summary Report

Generated by NIF on Apr 24, 2025

Globin Gene Server

RRID:SCR_001480
Type: Tool

Proper Citation

Globin Gene Server (RRID:SCR_001480)

Resource Information

URL: http://globin.cse.psu.edu/

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Description: Data and tools for studying the function of DNA sequences, with an emphasis on those involved in the production of hemoglobin. It includes information about naturally-occurring human hemoglobin mutations and their effects, experimental data related to the regulation of the beta-like globin gene cluster, and software tools for comparing sequences with one another to discover regions that are likely to play significant roles.

Abbreviations: Globin Gene Server

Resource Type: source code, narrative resource, analysis service resource, data analysis service, software resource, production service resource, training material, database, resource, service resource, data or information resource

Defining Citation: PMID:11857738, PMID:11480780, PMID:9799599, PMID:9576329, PMID:8088828

Keywords: dna sequence, hemoglobin, mutation, globin gene cluster, sequence comparison, functional genomics, gene, alignment, genetic analysis, variant, gene expression, protein, thalassemia, globin gene, genome, pairwise alignment, multiple alignment, annotation, sequence analysis, dna

Funding: NLM R01LM05773;
NLM R01LM05110;
NIDDK DK27635

Availability: Variable: Syllabus, Permission required, Tools, Acknowledgement requested

Resource Name: Globin Gene Server

Resource ID: SCR_001480

Alternate IDs: nlx_152723

Record Creation Time: 20220129T080207+0000

Record Last Update: 20250423T060003+0000

Ratings and Alerts

No rating or validation information has been found for Globin Gene Server .

No alerts have been found for Globin Gene Server .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Bahar R, et al. (2024) The Importance of Molecular Biological Analysis for the Laboratory Diagnostic of Homozygous Haemoglobin Malay. Balkan journal of medical genetics : BJMG, 27(1), 65.

Bao X, et al. (2024) Abnormal hemoglobin anti-Lepore Hong Kong compound with ?0-thalassemia ameliorate thalassemia severity when co-inherited with ?-thalassemia. Scientific reports, 14(1), 6682.

Li W, et al. (2024) Application of third-generation sequencing technology in the genetic testing of thalassemia. Molecular cytogenetics, 17(1), 32.

da Silva Brito R, et al. (2022) Basic biochemical and hematological parameters of structural hemoglobin variants in the postpartum women and their respective newborn from Manaus, Amazonas, Brazil. BMC pregnancy and childbirth, 22(1), 936.

Belmokhtar I, et al. (2022) Molecular heterogeneity of ?-thalassemia variants in the Eastern region of Morocco. Molecular genetics & genomic medicine, 10(8), e1970.

Baronciani D, et al. (2021) Selecting ?-thalassemia Patients for Gene Therapy: A Decision-making Algorithm. HemaSphere, 5(5), e555.

Zhou JR, et al. (2021) The Alberta Newborn Screening Approach for Sickle Cell Disease: The Advantages of Molecular Testing. International journal of neonatal screening, 7(4).

Chen M, et al. (2020) First report of the spectrum of ?-globin gene mutations among women of reproductive age in Fujian area-Discrimination of ?-thalassemia, ?-thalassemia, and Iron Deficiency Anemia. Journal of clinical laboratory analysis, 34(11), e23479.

Torre LDCR, et al. (2020) Three Mexican Families with ? thalassemia intermedia with different molecular basis. Genetics and molecular biology, 42(4), e20190032.

Yin S, et al. (2020) Effect of Exogenous Transcription Factors Integration Sites on Safety and Pluripotency of Induced Pluripotent Stem Cells. Balkan journal of medical genetics : BJMG, 23(1), 5.

Wu Y, et al. (2020) Genetic research and clinical analysis of deletional Chinese G?+(A???)0 -thalassemia and Southeast Asian HPFH in South China. Annals of hematology, 99(12), 2747.

Hashmi G, et al. (2020) Enabling routine ?-thalassemia Prevention and Patient Management by scalable, combined Thalassemia and Hemochromatosis Mutation Analysis. BMC medical genetics, 21(1), 108.

Zhang L, et al. (2019) LOVD-DASH: A comprehensive LOVD database coupled with diagnosis and an at-risk assessment system for hemoglobinopathies. Human mutation, 40(12), 2221.

Pirastru M, et al. (2017) A Novel -72 (T?A) ?-Promoter Mutation Causing Slightly Elevated HbA2 in a Vietnamese Heterozygote. BioMed research international, 2017, 4537409.

Vermeulen C, et al. (2017) Sensitive Monogenic Noninvasive Prenatal Diagnosis by Targeted Haplotyping. American journal of human genetics, 101(3), 326.

Pirastru M, et al. (2017) Biochemical and Molecular Analysis of the Hb Lepore Boston Washington in a Syrian Homozygous Child. BioMed research international, 2017, 1261972.

Shi H, et al. (2017) Hemoglobin Hornchurch [?43 (CD2) Glu > Lys; HBB: c.130G > A] in a Chinese boy complicated with thrombocytopenia: A case report and literature review. Medicine, 96(47), e8862.

Rawa K, et al. (2017) Two novel C-terminal frameshift mutations in the ?-globin gene lead to rapid mRNA decay. BMC medical genetics, 18(1), 65.

De Sanctis V, et al. (2017) ?-Thalassemia Distribution in the Old World: an Ancient Disease Seen from a Historical Standpoint. Mediterranean journal of hematology and infectious diseases, 9(1), e2017018.

Torres Lde S, et al. (2015) Hemoglobin D-Punjab: origin, distribution and laboratory diagnosis. Revista brasileira de hematologia e hemoterapia, 37(2), 120.