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Transcription Factors and Human Disease: The American ...

582 Am. J. Hum. Genet. 65:582, 1999 *Transcription Factors and Human Disease.* By Gregg L. Semenza. New York: Oxford University Press, 1998. Pp. 368. \$...

Transcription Factors and Human Disease by Gregg L. Semenza

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Transcription Factors and Human Disease | Nature Medicine

Transcription Factors and Human Disease Gregg L. Semenza Oxford Monographs on Medical Genetics. *Transcription Factors and Human Disease* presents the basic science of transcriptional regulation and the inherited human diseases attributable to mutations in DNA sequences encoding transcription factors in somatic cell genetic diseases (cancer) and epigenetic disease (teratogenesis) is discussed ...

AnimalTFDB 3.0: a comprehensive resource for annotation ...

Series Introduction: The transcription factor NF-κB and human disease Albert S. Baldwin Jr. Lineberger Comprehensive Cancer Center, University of North Carolina School of Medicine, Chapel Hill, North Carolina 27599-7295, USA.

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Transcription Factors - an overview | ScienceDirect Topics

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Transcriptional Regulation and its Misregulation in Disease

A growing list of human diseases are due to genetic defects in transcription factors. In most cases, mutations in transcription factors lead to pleiotropic effects. Clinical observations can be explained at the molecular level by the fact that these trans-acting factors control the expression of many genes, usually in combination with one or more further activators.

Transcription factor - Wikipedia

GATA transcription factors function in organogenesis and their link with human diseases The GATA family proteins: molecular mechanisms GATA factors were named after the consensus DNA-binding sequence (A/T)GATA(A/G), which is recognized by the zinc-finger domains common to all family members.

Transcription Factors And Human Disease

Transcription Factors and Human Disease provides an up-to-date overview of this transcription factor-disease connection. The author, G.L. Semenza, classifies human diseases according to ...

Fox transcription factors: from development to disease ...

Transcription Factors and Human Disease presents the basic science of transcriptional regulation and then describes inherited human diseases attributable to mutations in DNA sequences encoding transcription factors or their cognate binding sites.

GATA transcription factors in development and disease ...

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JCI - Series Introduction: The transcription factor NF-κB ...

FOXP3 (forkhead box P3), also known as scurfin, is a protein involved in immune system responses. A member of the FOX protein family, FOXP3 appears to function as a master regulator of the regulatory pathway in the development and function of regulatory T cells. Regulatory T cells generally turn the immune response down. In cancer, an excess of regulatory T cell activity can prevent the immune ...

Transcription Factors and Human Disease (Oxford Monographs ...

Transcription factor glossary; gene expression - the process by which information from a gene is used in the synthesis of a functional gene product such as a protein; transcription - the process of making messenger RNA (mRNA) from a DNA template by RNA polymerase; transcription factor - a protein that binds to DNA and regulates gene expression by promoting or suppressing transcription

Transcription Factors And Human Disease | Download eBook ...

Transcription Factors and Human Disease is divided into two parts. The first, consisting of chapters 1-3, provides a detailed overview of RNA polymerase II transcription and its regulation by cis-acting sequence elements and trans-acting protein factors.The second and longer part of the book focuses on human diseases caused by abnormal transcriptional regulation.

Stress-Activated Cap'n'collar Transcription Factors in ...

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Transcription Factors and Human Disease - Gregg L. Semenza ...

Transcriptional regulation occurs at two interconnected levels: the first involves transcription factors and the transcription apparatus and the second chromatin and its regulators (Figure 1). We briefly discuss the fundamentals of transcriptional control in this order, noting recent advances and reviews where the reader can obtain more detailed information.

Transcription factors and human disease : Gregg L. Semenza ...

Cap'n'collar (Cnc) transcription factors are conserved in metazoans and have important developmental and homeostatic functions. The vertebrate Nr1, Nr2, and Nr3; the Caenorhabditis elegans SKN-1; and the Drosophila CncC comprise a subgroup of Cnc factors that mediate adaptive responses to cellular stress. The most studied stress-activated Cnc factor is Nr2, which orchestrates the ...

Transcription factors and human disease (Book, 1999 ...

AnimalTFDB 3.0: a comprehensive resource for annotation and prediction of animal transcription factors Hui Hu Department of Bioinformatics and Systems Biology, Key Laboratory of Molecular Biophysics of the Ministry of Education, Hubei Bioinformatics and Molecular Imaging Key Laboratory, College of Life Science and Technology, Huazhong University of Science and Technology, Wuhan, Hubei 430074 ...

Transcription factors and human disease (Book, 1998 ...

Transcription factors are proteins that bind specific sites or elements in regulatory regions of DNA, known as promoters or enhancers, where they control the transcription or expression of target genes. Transcription factors can be selectively activated or deactivated by other proteins, often as the final step in signal transduction.

Transcription regulation and human diseases.

Forkhead box (Fox) transcription factors are evolutionarily conserved in organisms ranging from yeast to humans. They regulate diverse biological processes both during development and throughout adult life. Mutations in many Fox genes are associated with human disease and, as such, various animal models have been generated to study the function of these transcription factors in mechanistic detail.

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