

# Galactokinase

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Galactokinase is a phosphotransferase that catalyzes the phosphorylation of d-galactose to d-galactose-1-phosphate.



## Recent Publications on Galactokinase:

- [High-throughput screening for human galactokinase inhibitors.](#)  
*Inherited deficiency of galactose-1-phosphate uridylyltransferase (GALT) can...* 16th August, 2008  
Department of Pediatrics, Leonard M. Miller School of Medicine, University- J Biomol Screen. 2008 Jun;13(5):415-23. Epub 2008 May 19. ([DOI Direct Link](#))
- [A biologist despairs over the difficulty of demonstrating heritability of chromatin states.](#)  
*Normal pressure hydrocephalus (NPH) is the most frequent form of chronic...* 14th August, 2008  
University of Massachusetts, Worcester, USA.- Nature. 2008 Jul 10;454(7201):141. ([DOI Direct Link](#))
- [The nuclear exosome and adenylation regulate posttranscriptional tethering of yeast GAL genes to the nuclear periphery.](#)  
*GAL genes and other activated yeast genes remain tethered to the nuclear...* 5th August, 2008  
Department of Biology, Brandeis University, Waltham, MA 02454, USA.- Mol Cell. 2008 Jul 11;31(1):104-13. ([DOI Direct Link](#))
- [H2B ubiquitylation plays a role in nucleosome dynamics during transcription elongation.](#)  
*The monoubiquitylation of histone H2B has been associated with...* 5th August, 2008  
Department of Molecular Genetics and Microbiology, University of New- Mol Cell. 2008 Jul 11;31(1):57-66. ([DOI Direct Link](#))
- [Rtr1 is the Saccharomyces cerevisiae homolog of a novel family of RNA polymerase II-binding proteins.](#)  
*Cells must rapidly sense and respond to a wide variety of potentially...* 22nd July, 2008  
Department of Microbiology and Molecular Genetics, University of Texas- Eukaryot Cell. 2008 Jun;7(6):938-48. Epub 2008 Apr 11. ([DOI Direct Link](#))
- [Comparative genomic and physiological analysis of nutrient response to NH4+, NH4+:NO3- and NO3- in barley seedlings.](#)  
*Long-term differences in photosynthesis, respiration and growth of plants...* 12th June, 2008  
Unitat de Fisiologia Vegetal, Facultat de Biologia, Universitat de- Physiol Plant. 2008 May 26. ([DOI Direct Link](#))
- [Diagnosis of inherited disorders of galactose metabolism.](#)  
*Galactose metabolism occurs through an evolutionarily conserved pathway in...* 28th May, 2008  
Leonard Miller School of Medicine, University of Miami, Miami, Florida,- Curr Protoc Hum Genet. 2008 Jan;Chapter 17:Unit 17.5. ([DOI Direct Link](#))
- [Hepatoblast-like cells enriched from mouse embryonic stem cells in medium without glucose, pyruvate, arginine, and tyrosine.](#)

- In order to enrich hepatocytes differentiated from embryonic stem cells...*15th May, 2008  
Department of Medicine and Clinical Oncology, Graduate School of Medicine,- Cell Tissue Res. 2008 Jul;333(1):17-27. Epub 2008 May 14. ([DOI Direct Link](#))
- [Variant histone H2A.Z, but not the HMG proteins Nhp6a/b, is essential for the recruitment of Swi/Snf, Mediator, and SAGA to the yeast GAL1 UAS\(G\).](#)  
*Chromatin architecture is very important for the regulation of...*15th May, 2008  
Departement de biologie, Faculte des sciences, Universite de Sherbrooke,- Biochem Biophys Res Commun. 2008 May 16;369(4):1103-7. Epub 2008 Mar 10. ([DOI Direct Link](#))
  - [\[Bilateral cataract in childhood years: always an indication for screening on a metabolic disorder\]](#)  
*In three young patients who presented with bilateral cataracts the cause...*13th May, 2008  
Universitair Medisch Centrum Utrecht, divisie Kinderen, Huispost KC- Ned Tijdschr Geneesk. 2008 Mar 15;152(11):632-6.
  - [Stochastic switching as a survival strategy in fluctuating environments.](#)  
*A classic problem in population and evolutionary biology is to understand...*1st May, 2008  
Department of Physics, Massachusetts Institute of Technology, Cambridge,- Nat Genet. 2008 Apr;40(4):471-5. Epub 2008 Mar 23. ([DOI Direct Link](#))
  - [HSP90/70 chaperones are required for rapid nucleosome removal upon induction of the GAL genes of yeast.](#)  
*Induction of transcription of the GAL genes of yeast by galactose is a...*30th April, 2008  
Molecular Biology Program, Sloan-Kettering Institute, 1275 York Avenue,- Proc Natl Acad Sci U S A. 2008 Feb 26;105(8):2975-80. Epub 2008 Feb 19. ([DOI Direct Link](#))
  - [Transcriptional control of noise in gene expression.](#)  
*Cis-regulatory control of transcription is the dominant form of regulation...*24th April, 2008  
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  - [The roles of galactitol, galactose-1-phosphate, and phosphoglucomutase in galactose-induced toxicity in Saccharomyces cerevisiae.](#)  
*The uptake and catabolism of galactose by the yeast Saccharomyces...*19th April, 2008  
Center for Microbial Biotechnology, BioCentrum-DTU, Technical University- Biotechnol Bioeng. 2008 Mar 19;101(2):317-326. ([DOI Direct Link](#))
  - [NADP regulates the yeast GAL induction system.](#)  
*Transcriptional regulation of the galactose-metabolizing genes in...*6th March, 2008  
Cold Spring Harbor Laboratory, 1 Bungtown Road, Cold Spring Harbor,- Science. 2008 Feb 22;319(5866):1090-2. ([DOI Direct Link](#))

## Galactokinase Patents:



- 7329522- [Polyphosphate:AMP phosphotransferase](#)
- 7364892- [Microbial trypsin mutants having chymotrypsin activity and nucleic acids encoding same](#)
- 7364911- [Methods for isolating and labeling sample molecules](#)
- 7368262- [Promoter variants for expressing genes in a fungal cell](#)
- 7368271- [Polypeptides having alpha-glucosidase activity and polynucleotides encoding same](#)
- 7368527- [HADDE71 polypeptides](#)
- 7368531- [Human secreted proteins](#)

- [7368554- Polynucleotides encoding BSL2v1c2-Ig](#)
- [7374919- UDP-galactose: .beta.-N-acetyl-glucosamine .beta.-1,4-galactosyltransferase, .beta.4Gal-T2](#)
- [7378258- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7378514- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7361495- Polypeptide from a cellulolytic fungus having cellulolytic enhancing activity](#)
- [7361355- Mutant forms of cholera holotoxin as an adjuvant](#)
- [7358354- Polynucleotides encoding BSL3](#)
- [7332174- Mutant forms of cholera holotoxin as an adjuvant](#)
- [7332279- UDP-galactose: .beta.-N-acetyl-glucosamine .beta.1,3 galactosyltransferases, .beta.3gal-T5](#)
- [7332310- Mutant of homoserine dehydrogenase from Corynebacterium and DNA encoding thereof](#)
- [7335468- TSG101-GAG interaction and use thereof](#)
- [7335493- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7335494- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7335500- Production of fucosylated carbohydrates by enzymatic fucosylation synthesis of sugar nucleotides; and in situ regeneration of GDP-fucose](#)
- [7338786- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7348168- Polypeptides having cellobiohydrolase II activity and polynucleotides encoding same](#)
- [7348420- Lactobacillus acidophilus nucleic acid sequences encoding cell surface protein homologues and uses therefore](#)
- [7381544- Nucleic acid that encodes a fusion protein](#)
- [7381551- Saccharomyces cerevisiae mutant](#)
- [7404958- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7405291- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7405343- Methyl-D-erythritol phosphate pathway genes](#)
- [7407750- Marker assisted selection of bovine for improved milk composition](#)
- [7411051- Antibodies to HDPPA04 polypeptide](#)
- [7413882- Methods for degrading or converting plant cell wall polysaccharides](#)
- [7413888- Variants of beta-glucosidases](#)
- [7414107- Pharmacologically active peptide conjugates having a reduced tendency towards enzymatic hydrolysis](#)
- [7416862- Nucleic acid and amino acid sequences relating to Staphylococcus epidermidis for diagnostics and therapeutics](#)
- [7416876- N-carbobenzyloxy \(N-CBZ\)-deprotecting enzyme](#)
- [7396532- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7393669- Metabolically engineered micro-organisms having improved galactose uptake](#)
- [7393667- Stereoselective reduction process for the preparation of pyrrolotriazine compounds](#)
- [7381554- UDP-N-acetylglucosamine: galactose-.beta.1,3-N-acetylglactosamine-.alpha.-R/N-acetylglucosamine-.beta.1,3-N-acetylglactosamine-.alpha.-R \(GlcNAc to GalNAc\) .beta.1,6-N-acetylglucosaminyltransferase, C2/4GnT](#)
- [7381800- Antibodies to HBIMF63 polypeptide](#)
- [7381814- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- [7381815- Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)

- 7381816- [Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- 7385047- [Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- 7388077- [Polypeptides having antimicrobial activity and polynucleotides encoding the same](#)
- 7388090- [Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- 7390493- [Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics](#)
- 7393664- [Methods for producing secreted polypeptides](#)
- 7416881- [Yeast cells engineered to produce pheromone system protein surrogates, and uses therefor](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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