

Hyperinsulinism

[View the current Hyperinsulinism InDepth page on BioPortfolio.com \(PDF\)](#)

(<http://www.bioportfolio.com/indepth/Hyperinsulinism.html>) - Regularly Updated.

Hyperinsulinism or hyperinsulinemia refers to an above normal level of insulin in the blood of a person or animal. Normal insulin secretion and blood levels are closely related to the level of glucose in the blood, so that a given level of insulin can be normal for one blood glucose level but low or high for another.

Hyperinsulinism can be associated with several types of medical problems, which can be roughly divided into two broad categories: those tending toward reduced sensitivity to insulin and high blood glucose levels, and those tending toward excessive insulin secretion and low glucose levels. ([From the Wikipedia article Hyperinsulinism](#).)



Recent Publications on Hyperinsulinism:

- [Metabolic Syndrome Racial Differences in Adolescents.](#)
*The metabolic syndrome consists of obesity, insulin resistance,...*21st November, 2009
Division of Pediatric Endocrinology, Department of Pediatrics, The Ohio- Curr Diabetes Rev. 2009 Nov;5(4):259-265.
- [Hyperinsulinemia is a predictor of new cardiovascular events in Colombian patients with a first myocardial infarction.](#)
*BACKGROUND: Acute Myocardial Infarction (AMI) is one of the main causes of...*20th November, 2009
VILANO Group and Cardiology Group. Research Institute, Fundacion- Int J Cardiol. 2009 Nov 16. ([DOI Direct Link](#))
- [Limited Value of 18F-F-DOPA PET to Localize Pancreatic Insulin-Secreting Tumors in Adults with Hyperinsulinemic Hypoglycemia.](#)
*Context: Fluorine-18-L-dihydroxyphenylalanine positron emission tomography...*17th November, 2009
Service Central de Biophysique et de Medecine Nucleaire (L.T., D.T.,- J Clin Endocrinol Metab. 2009 Nov 13. ([DOI Direct Link](#))
- [Could insulin sensitization be used as an alternative to intensive insulin therapy to improve the survival of intensive care unit patients with stress-induced hyperglycemia?](#)
*Glucokinase is essential for glucose-stimulated insulin release from the...*17th November, 2009
- Crit Care Med. 2009 Oct;37(10):2856-8. ([DOI Direct Link](#))
- [Time-dependent regulation of muscle caveolin activation and insulin signalling in response to high-fat diet.](#)
*We studied the effect of high-fat diet on the expression and activation of...*17th November, 2009
Department of Biochemistry and Molecular Biology, University of Navarra,- FEBS Lett. 2009 Oct 6;583(19):3259-64. Epub 2009 Sep 12. ([DOI Direct Link](#))
- [Diagnostics and treatment of organic hyperinsulinism--experience in 105 cases](#)
*BACKGROUND: Organic hyperinsulinism causes hypoglycaemia manifesting...*11th November, 2009
III. interni klinika 1. LF UK a VFN, U Nemocnice 1, 128 08 Praha 2.- Cas Lek Cesk.

2009;148(8):389-94.

- [On the reversibility of glutamate dehydrogenase and the source of hyperammonemia in the hyperinsulinism/hyperammonemia syndrome.](#)
*BACKGROUND: Organic hyperinsulinism causes hypoglycaemia manifesting...*10th November, 2009
Buck Institute for Age Research, Novato, CA 94945, USA.- *Adv Enzyme Regul.* 2009 Nov 4. ([DOI Direct Link](#))
- [Alterations in cochlear function during induced acute hyperinsulinemia in an animal model.](#)
*Hyperinsulinism secondary to peripheral insulin resistance has been...*7th November, 2009
Otorhinolaryngology, Universidade Federal do Rio Grande do Sul, UFRGS.- *Braz J Otorhinolaryngol.* 2009 Sep-Oct;75(5):760-4.
- [Opposite Clinical Phenotypes of Glucokinase Disease: Description of a Novel Activating Mutation and Contiguous Inactivating Mutations in Human Glucokinase \(GCK\) Gene.](#)
*Glucokinase is essential for glucose-stimulated insulin release from the...*4th November, 2009
Bambino Gesù Pediatric Hospital (F.B., C.D.-V., P.C., O.M., C.C.),- *Mol Endocrinol.* 2009 Nov 2. ([DOI Direct Link](#))
- [\[Hypoglycemia and insulinoma\]](#)
*Insulinomas are rare causes of hypoglycemia. After having ruled out non...*3rd November, 2009
Hopitaux de Paris, Service d'Endocrinologie et des Maladies de la- *Ann Endocrinol (Paris).* 2009 Sep;70 Suppl 1:S2-11. ([DOI Direct Link](#))
- [\[Persistent hyperinsulinemic hypoglycemia of infancy: clinical analysis of 12 cases.\]](#)
*OBJECTIVE: To study the diagnosis and treatment of persistent...*24th October, 2009
Department of Endocrinology and Metabolism, Guangzhou Children's Hospital- *Zhongguo Dang Dai Er Ke Za Zhi.* 2009 Oct;11(10):809-12.
- [Early Origins of polycystic ovary syndrome: hypotheses may change without notice.](#)
*OBJECTIVE: To study the diagnosis and treatment of persistent...*21st October, 2009
- *J Clin Endocrinol Metab.* 2009 Oct;94(10):3682-5. ([DOI Direct Link](#))
- [Genetic variant near IRS1 is associated with type 2 diabetes, insulin resistance and hyperinsulinemia.](#)
*Genome-wide association studies have identified common variants that only...*15th October, 2009
McGill University and Genome Quebec Innovation Centre, Montreal, Canada.- *Nat Genet.* 2009 Oct;41(10):1110-5. Epub 2009 Sep 6. ([DOI Direct Link](#))
- [Exercise-related hypoglycemia-associated autonomic failure in diabetes.](#)
*Genome-wide association studies have identified common variants that only...*1st October, 2009
Division of Endocrinology, Metabolism and Lipid Research, Washington- *Diabetes.* 2009 Sep;58(9):1951-2. ([DOI Direct Link](#))
- [Molecular biology of K\(ATP\) channels and implications for health and disease.](#)
*The ATP-sensitive potassium (K(ATP)) channel is expressed in most...*30th September, 2009
Department of Cell Biology and Physiology, Washington University School of- *IUBMB Life.* 2009 Oct;61(10):971-8. ([DOI Direct Link](#))

Hyperinsulinism Patents:



- 7115372- [Methods for targeting RNA molecules](#)
- 7276352- [Induction of .beta. cell differentiation in human cells by stimulation of the GLP-1 receptor](#)
- 7300927- [Method for treating or preventing Alzheimer's disease](#)

- 7304063- [Inhibitors of Akt activity](#)
- 7312304- [Somatostatin agonists](#)
- 7314859- [Compositions and methods for the prevention and control of insulin-induced hypoglycemia](#)
- 7348329- [Therapeutic agent for keratoconjunctival disorder](#)
- 7368527- [HADDE71 polypeptides](#)
- 7368531- [Human secreted proteins](#)
- 7378488- [Somatostatin antagonists](#)
- 7385026- [Modified ghrelin polypeptides](#)
- 7253188- [Aminobenzamide derivative](#)
- 7244743- [Non-peptidic BRS-3 agonists](#)
- 7125863- [Inhibitors of dipeptidyl peptidase IV](#)
- 7144859- [Somatostatin agonists](#)
- 7192723- [G protein-coupled receptor protein, its DNA and ligand thereof](#)
- 7198900- [Multiplex detection compositions, methods, and kits](#)
- 7199140- [Vinyl phenyl derivatives as GLK activators](#)
- 7211406- [Potassium channel](#)
- 7228163- [Methods of monitoring glucose levels in a subject and uses thereof](#)
- 7230108- [Quinoline derivatives as glucokinase ligands](#)
- 7232667- [Keratinocyte growth factor-2 polynucleotides](#)
- 7238695- [Imidazolyl derivatives](#)
- 7390908- [Compounds effecting glucokinase](#)
- 7399777- [Diarylcycloalkyl derivatives, processes for their preparation and their use as pharmaceuticals](#)
- 7402328- [Stable sodium-free or low-sodium aqueous solution of agreeable saltiness taste](#)
- 7544677- [Inhibitors of Akt activity](#)
- 7566734- [Imidazolyl derivatives](#)
- 7572789- [Salts of potassium ATP channel openers and uses thereof](#)
- 7572883- [Somatostatin-dopamine chimeric analogs](#)
- 7576209- [Inhibitors of Akt activity](#)
- 7579355- [Inhibitors of Akt activity](#)
- 7579435- [Somatostatin-dopamine chimeric analogs](#)
- 7582769- [Dicycloalkyl urea glucokinase activators](#)
- 7586021- [Nucleic acid construct, metabolic disordered non-human animal and use thereof](#)
- 7589068- [Inhibitors of Akt activity](#)
- 7544365- [TRPV1.sup.+ sensory neurons control of .beta.-cells stress and islet inflammation in diabetes](#)
- 7524957- [Compounds effecting glucokinase](#)
- 7402611- [Use of amino acids for making medicines for treating to insulin-resistance](#)
- 7408024- [Somatostatin antagonists](#)
- 7411051- [Antibodies to HDPPA04 polypeptide](#)
- 7414055- [Inhibitors of Akt activity](#)
- 7432287- [Heteroarylcarbonylbenzene derivative](#)
- 7446098- [Combination therapy for treating protein deficiencies](#)
- 7491533- [Polynucleotides encoding an isolated .beta.-islet cell two-pore domain potassium channel](#)
- 7504223- [Knockout mouse for the tumor suppressor gene ANX7](#)
- 7517853- [Somatostatin-dopamine chimeric analogs](#)
- 7524287- [System and method for distinguishing between hypoglycemia and hyperglycemia using an implantable medical device](#)
- 7590443- [System and method for detecting hypoglycemia based on a paced depolarization integral using an implantable medical device](#)

Resources from the [NCBI](#) used in this document, [NCBI's standard disclaimer applies](#).

Nothing in this document should be used in place of personal medical advice from your own qualified medical practitioner. See BioPortfolio.com [User Agreement](#)

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)

All rights reserved. All other trademarks recognized.

BioPortfolio Limited is registered in England & Wales at Stafford House, 10 Prince of Wales Road, Dorchester, Dorset, DT1 1PW, UK. No.3312883 VAT No. GB 744 6483 10

Copyright 1997-2009 - BioPortfolio Limited.

