

# G-Protein-Coupled Receptor Kinases

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## Recent Publications on G-Protein-Coupled Receptor Kinases:



- [Targeted transgenesis reveals discrete attenuator functions of GRK and PKA in airway beta2-adrenergic receptor physiologic signaling.](#)  
*Phosphorylation by protein kinase A (PKA) and G protein-coupled receptor...*7th November, 2009  
Cardiopulmonary Genomics Program, Department of Medicine, University of- Proc Natl Acad Sci U S A. 2009 Sep 1;106(35):15007-12. Epub 2009 Aug 17. ([DOI Direct Link](#))
- [Role of the amino terminus of G protein-coupled receptor kinase 2 in receptor phosphorylation.](#)  
*G protein-coupled receptor kinases (GRKs) specifically phosphorylate...*3rd November, 2009  
Department of Biochemistry and Molecular Biology, Thomas Jefferson- Biochemistry. 2009 Aug 4;48(30):7325-33. ([DOI Direct Link](#))
- [Morphine-induced physiological and behavioral responses in mice lacking G protein-coupled receptor kinase 6.](#)  
*G protein-coupled receptor kinases (GRKs) are a family of intracellular...*29th October, 2009  
Department of Molecular Therapeutics, The Scripps Research Institute,- Drug Alcohol Depend. 2009 Oct 1;104(3):187-96. Epub 2009 Jun 3. ([DOI Direct Link](#))
- [Regulation of Smoothed by Drosophila G-protein-coupled receptor kinases.](#)  
*The Hedgehog (Hh) signaling pathway plays a conserved and essential role...*24th October, 2009  
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- [Phosphorylation-independent regulation of metabotropic glutamate receptor 5 desensitization and internalization by G protein-coupled receptor kinase 2 in neurons.](#)  
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- [G protein-coupled receptor kinases phosphorylate LRP6 in the Wnt pathway.](#)  
*Wnt ligands conduct their functions in canonical Wnt signaling by binding...*6th October, 2009  
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- [G-protein coupled receptor kinases mediate TNFalpha-induced NFkappaB signaling via direct interaction with and phosphorylation of IkappaBalpha.](#)  
*Tumor necrosis factor-alpha (TNFalpha) is a multifunctional cytokine...*3rd October, 2009  
- Biochem J. 2009 Oct 2. ([DOI Direct Link](#))
- [Myocardial and peripheral lymphocytic transcriptomic dissociation of beta-adrenoceptors and G protein-coupled receptor kinases in heart transplantation.](#)  
*BACKGROUND: The genetic expression of adrenergic receptors plays an...*29th September, 2009

Heart Failure and Transplant Unit, Department of Cardiology, La Fe- J Heart Lung Transplant. 2009 Nov;28(11):1166-71. Epub 2009 Sep 26. ([DOI Direct Link](#))

- [The mechanism of chemokine receptor 9 internalization triggered by interleukin 2 and interleukin 4.](#)  
*In previous study, we found that the chemokine receptor 9 (CCR9) was...*29th September, 2009  
Department of Immunology, College of Basic Medical Sciences, Wuhan- Cell Mol Immunol. 2009 Jun;6(3):181-9.
- [beta-Arrestin mediates beta1-adrenergic receptor-epidermal growth factor receptor interaction and downstream signaling.](#)  
*beta1-Adrenergic receptor (beta1AR) stimulation confers cardioprotection...*29th September, 2009  
Department of Medicine, Duke University, Medical Center, Durham, North- J Biol Chem. 2009 Jul 24;284(30):20375-86. Epub 2009 Jun 9. ([DOI Direct Link](#))
- [Endothelin signalling in arterial smooth muscle is tightly regulated by G protein-coupled receptor kinase 2.](#)  
*AIMS: Prolonged endothelin (ET) receptor signalling causes...*15th September, 2009  
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- [Receptor trafficking induced by mu-opioid-receptor phosphorylation.](#)  
*Opiates, including morphine, are widely used drugs for antinociception in...*15th September, 2009  
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*In the nervous system, the interaction of opioids like heroin and morphine...*29th August, 2009  
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- [Selective engagement of G protein coupled receptor kinases \(GRKs\) encodes distinct functions of biased ligands.](#)  
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Department of Medicine, Duke University Medical Center, Durham, NC 27710,- Proc Natl Acad Sci U S A. 2009 Jun 16;106(24):9649-54. Epub 2009 Jun 2. ([DOI Direct Link](#))

## G-Protein-Coupled Receptor Kinases Patents:



- 7604959- [Cell-based assays employing voltage and calcium dyes](#)
- 6800445- [Systems for sensitive detection of G-protein coupled receptor and orphan receptor function using reporter enzyme mutant complementation](#)
- 6833436- [Short peptides which selectively modulate the activity of serine/threonine kinases](#)
- 6833439- [IP-10/MIG receptor designated CXCR3, nucleic acids and methods of use therefor](#)
- 6893827- [Receptor function assay for G-protein coupled receptors and orphan receptors by reporter](#)

[enzyme mutant complementation](#)

- 6953673- [Histamine H2 receptor and uses](#)
- 6979548- [Chemokine receptor obtained from a CDNA library of fetal liver-spleen](#)
- 7001731- [Chemokine receptor obtained from a cDNA library of fetal liver-spleen](#)
- 7018812- [Modified G-protein coupled receptors](#)
- 6770449- [Methods of assaying receptor activity and constructs useful in such methods](#)
- 6686175- [IP-10/MIG receptor designated CXCR3, nucleic acids, and methods of use therefor](#)
- 5532151- [G protein-coupled receptor kinase GRK6](#)
- 5591618- [G protein-coupled receptor kinase GRK6](#)
- 5840516- [Amino acid transporters and uses](#)
- 5891646- [Methods of assaying receptor activity and constructs useful in such methods](#)
- 5912171- [Amino acid transporters and uses](#)
- 5932432- [Expression library screen by prenylation of expressed proteins](#)
- 6140064- [Method of detecting or identifying ligands, inhibitors or promoters of CXC chemokine receptor 3](#)
- 6174993- [Short peptides which selectively modulate the activity of serine/threonine kinases](#)
- 7029862- [Method for identifying ligands, inhibitors or promoters of CXC chemokine receptor 3](#)
- 7029905- [Method for the cellular high-throughput-detection of receptor ligand interactions](#)
- 7279324- [Nucleic acid encoding G-protein coupled receptor with modified DRY motif](#)
- 7332292- [Constitutively translocating cell line](#)
- 7348305- [Inhibitor of cardiac tachyarrhythmias](#)
- 7384755- [Cell-based assay for G-protein-coupled receptor-mediated activity employing a mutated cyclic nucleotide-gated ion channel and a membrane potential dye](#)
- 7470787- [Isoquinoline compounds](#)
- 7488576- [Methods for diagnosis and treatment of psychiatric disorders](#)
- 7488583- [Fragment complementation assays for G-protein-coupled receptors and their signaling pathways](#)
- 7541151- [Single-cell biosensor for the measurement of GPCR ligands in a test sample](#)
- 7238213- [Cell-based assays employing voltage and calcium dyes](#)
- 7235374- [Systems for sensitive detection of G-protein coupled receptor and orphan receptor function using reporter enzyme mutant complementation](#)
- 7037891- [Methods of modulating G-protein-coupled receptor kinase-associated signal transduction](#)
- 7109000- [Proteins and nucleic acids encoding same](#)
- 7115377- [Cell-based assays for G-protein-coupled receptor-mediated activities](#)
- 7138240- [Methods of assaying receptor activity](#)
- 7163800- [Methods of screening compositions for G protein-coupled receptor desensitization inhibitory activity](#)
- 7176283- [Protease-activated receptor 3 and uses thereof](#)
- 7214496- [Modified G-protein coupled receptors](#)
- 7235236- [Polynucleotide encoding human adenylylcyclase VI and uses thereof for enhancing cardiac function](#)
- 5366889- [DNA encoding a protein-coupled receptor kinase](#)

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