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REVIEW Contributions of fluorescence techniques to understanding G protein-coupled receptor dimerisation
Alan D. Goddard & Anthony Watts Received: 18 January 2012 /Accepted: 13 March 2012

Contributions of fluorescence techniques to understanding

G protein-coupled receptors (GPCRs) are the largest family of cell surface receptors and are important drug targets for many human diseases. The determination of the 3-D structure of GPCRs and ...

Understanding the GPCR biased signaling through G protein

G-protein-coupled receptor oligomerisation is a widespread phenomenon. One of the best-studied examples is the metabotropic GABA B receptor . This so-called constitutive receptor is formed by heterodimerization of GABA B R1 and GABA B R2 subunits.

G protein-coupled receptor - Wikipedia

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(PDF) Understanding the Added Value of G-Protein-Coupled

Heterotrimeric G proteins, composed of $G\alpha$ and $G\beta\gamma$ subunits, transduce extracellular signals via G-protein-coupled receptors to modulate many important intracellular responses. The $G\beta\gamma$ subunits hold a central position in this signaling system and have been implicated in multiple aspects of physiology and the pathophysiology of disease. The ...

Understanding Molecular Recognition by G protein $\beta\gamma$

G Protein Coupled Receptor Structure and Activation Brian K. Kobilka Department of Molecular and Cellular Physiology, Stanford University School of Medicine Abstract G protein coupled receptors (GPCRs) are remarkably versatile signaling molecules. The members of this large family of membrane proteins are activated by a spectrum of structurally diverse ligands, and have been shown to modulate ...

G Protein Coupled Receptor Structure and Activation

Between Descriptors and Properties: Understanding the Ligand Efficiency Trends for G Protein-Coupled Receptor and Kinase Structure-Activity Data Sets Jaroslaw Polanski * and Aleksandra Tkocz Institute of Chemistry, University of Silesia , 9 Szkolna Street, 40-006 Katowice, Poland

Between Descriptors and Properties: Understanding the

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Imaging-Based Approaches to Understanding G Protein

G protein-coupled receptors · recent advances Dorota Latek1#, Anna Modzelewska2#, ... rent

understanding of G protein-coupled receptor (GPCR) structural biology. In 2000 the first GPCR, bovine rhodopsin, was crystallized and the structure was solved, while in 2007 the structure of β^2 -adrenergic receptor, the first GPCR with diffusible ligands, was determined owing to advances in ...

G protein-coupled receptors – recent advances

G-protein-coupled receptors (GPCRs) constitute the most populated family of proteins within the human genome. Since the early sixties work on GPCRs and on GPCR-mediated signaling has led to a number of awards, the most recent being the Nobel Prize in Chemistry for 2012.

Understanding the Added Value of G-Protein-Coupled

ReviewArticle Understanding the Added Value of G-Protein-Coupled Receptor Heteromers
NuriaFrancoandRafaelFranco DepartmentBiochemistryandMolecularBiology ...

Understanding the Added Value of G-Protein-Coupled

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Understanding the Added Value of G-Protein-Coupled

A GAIN in understanding autoproteolytic G protein-coupled receptors and polycystic kidney disease proteins
John J G Tesmer a, 1, 2 1 Life Sciences Institute, University of Michigan, Ann Arbor, MI, USA

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