

Resource Summary Report

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gpDB - a database of GPCRs G-proteins Effectors and their interactions

RRID:SCR_007063

Type: Tool

Proper Citation

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Resource Information

URL: <http://biophysics.biol.uoa.gr/gpDB/>

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Description: A publicly accessible, relational database of G-proteins and their interactions with GPCRs and effector molecules. The sequences are classified according to a hierarchy of different classes, families and sub-families, based on extensive literature search. There is full sequence information with cross-references to publicly available databases, and the user may submit advanced queries for text search. Furthermore there is an interface for running BLAST against the database and a pattern search tool. The main innovation besides the classification of both G-proteins and GPCRs is the relational model of the database, describing the known coupling specificity of the GPCRs to their respective alpha subunit of G-proteins and also the interaction between G-protein subfamilies and specific effector types, a unique feature not available in any other database. The database will be very useful for the study of G-protein/GPCR and G-protein/effector interactions and for future development of algorithms predicting this interaction.

Abbreviations: gpDB

Synonyms: gpDB: a database of GPCRs G-proteins Effectors and their interactions

Resource Type: analysis service resource, data analysis service, data or information resource, database, production service resource, service resource

Defining Citation: [PMID:18441001](#), [PMID:15619328](#)

Keywords: g-protein coupled receptor, g-protein, effector, interaction, effector molecule, algorithm, signal transduction, blast

Funding: State Scholarships Foundation of Greece ;
Greek Ministry of National Education and Religious Affairs

Availability: For academics

Resource Name: gpDB - a database of GPCRs G-proteins Effectors and their interactions

Resource ID: SCR_007063

Alternate IDs: nif-0000-00151

Record Creation Time: 20220129T080239+0000

Record Last Update: 20260829T182729+0000

Ratings and Alerts

No rating or validation information has been found for gpDB - a database of GPCRs G-proteins Effectors and their interactions.

No alerts have been found for gpDB - a database of GPCRs G-proteins Effectors and their interactions.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.