Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

G Protein-Coupled Receptor Data Base

RRID:SCR_007419
Type: Tool

Proper Citation

G Protein-Coupled Receptor Data Base (RRID:SCR_007419)

Resource Information

URL: https://gpcrdb.org/

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Description: The GPCRDB is a molecular-class information system that collects, combines, validates and stores large amounts of heterogenous data on G protein-coupled receptors (GPCRs). :The GPCRDB contains data on sequences, ligand binding constants and mutations. In addition, t he system provides computationally derived data such as multiple sequence alignments, homology models, and a series of query and visualization tools. :The GPCRDB is designed to be a data storage medium, as well as a tool to aid biomedical scientists with answering questions by offering a single point of access to many types of data that are integrated and visualized in a user-friendly way. Although most parts of the GPCRDB are self-explanatory, if you have not used this resource before it is adviced that you to take a look at the usage page. Sponsors: This resource is supported by Organon and Unilever, and the NIH. Keywords: G protein, Coupled, receptor, Molecular, Heterogenous, Data, Sequence, Ligand, Mutation, Computational, Software, Alignment, Homology, Model, Visualization, Tool, Biomedical, Scientist, Integration,

Synonyms: GPCRDB

Resource Type: data or information resource, data repository, database, service resource, software resource, storage service resource

Keywords: FASEB list

Resource Name: G Protein-Coupled Receptor Data Base

Resource ID: SCR_007419

Alternate IDs: nif-0000-00521

Old URLs: http://www.gpcr.org/7tm/

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260905T132611+0000

Ratings and Alerts

No rating or validation information has been found for G Protein-Coupled Receptor Data Base.

No alerts have been found for G Protein-Coupled Receptor Data Base.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 206 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Palladino G, et al. (2026) Decoding GPCR signaling in living cells to advance early therapeutic discovery for neurological disorders. Frontiers in molecular neuroscience, 19, 1789400.

Huang YT, et al. (2026) Genome diversification of symbiotic fungi in beetle-fungus mutualistic symbioses. The ISME journal, 20(1).

Devenish SO, et al. (2026) Next-generation chemogenetic inhibition using a brain-permeant non-prescription agent. Signal transduction and targeted therapy, 11(1).

Shriver T, et al. (2026) The isolated Stachel peptide of the adhesion G protein-coupled receptor GPR126 is intrinsically disordered. bioRxiv : the preprint server for biology.

Jaratlerdsiri W, et al. (2026) A catalogue of early diverged contemporary human genome variation reveals distinct Khoe-San populations. Nature communications, 17(1).

Kinanti NP, et al. (2026) ??Arrestin-Mediated Activation of Chemokine Receptor CCR7 by Human ??Defensin?3 Drives Oral Squamous Cell Carcinoma Progression. JACS Au, 6(3), 1548.

Kim Y, et al. (2026) Structural insights into coffee bitter taste perception by TAS2R43 receptor. Nature structural & molecular biology, 33(4), 701.

Wang H, et al. (2026) Molecular mechanism of allosteric modulation of opioid receptors. Signal transduction and targeted therapy, 11(1).

Kilinç G, et al. (2026) Comparative Transcriptomic Analysis of Human Macrophages During Mycobacterium avium Versus Mycobacterium tuberculosis Infection. Molecular microbiology, 125(3), 185.

Wei W, et al. (2025) Protein Frustration Reveals Active Sites in Co-Evolved GPCR:G Protein Complexes and in Engineered Targeted Degrader Complexes. bioRxiv : the preprint server for biology.

Salmaso V, et al. (2025) Adenosine Receptors in Neuroinflammation and Neurodegeneration. Cells, 14(20).

Garcia De Las Bayonas A, et al. (2025) G-protein-coupled receptor diversity and evolution in the closest living relatives of metazoa. eLife, 14.

Caroli J, et al. (2025) An online GPCR drug discovery resource. npj drug discovery, 2(1).

Sarker DK, et al. (2025) Exploring the impact of deleterious missense nonsynonymous single nucleotide polymorphisms in the DRD4 gene using computational approaches. Scientific reports, 15(1), 3150.

Deganutti G, et al. (2025) Hidden GPCR structural transitions addressed by multiple walker supervised molecular dynamics (mwSuMD). eLife, 13.

Shi S, et al. (2025) Recent Developments in the Optical Control of Adrenergic Signaling. Medicinal research reviews, 45(5), 1307.

Bi Z, et al. (2025) Emerging paradigms for target discovery of traditional medicines: A genome-wide pan-GPCR perspective. Innovation (Cambridge (Mass.)), 6(3), 100774.

Manookian B, et al. (2025) Temporally resolved and interpretable machine learning model of GPCR conformational transition. Nature communications, 17(1), 257.

Luttens A, et al. (2025) Rapid traversal of vast chemical space using machine learning-guided docking screens. Nature computational science, 5(4), 301.

Hoegen Dijkhof LR, et al. (2025) Deep learning in GPCR drug discovery: benchmarking the path to accurate peptide binding. Briefings in bioinformatics, 26(2).