

Resource Summary Report

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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/>

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

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 advised 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 [Kravitz](#) .

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 Degradation 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).