

PI: Raja Mazumder
The George Washington University

Data Collection

Glycan centric
GLYD500060

Homo sapiens, CSV

Glycome Accessions

GlyYouCan Acc	PubChem ID	GlycomeDB ID
G95617FJ	CID..SID..	7752
G55459MJ	CID..SID..	2428

GlyYouCan accessions mapped to
GlycomeDB, Glyco, PubChem etc. ...
[view details](#)

Data collection from multiple
international resources with metadata

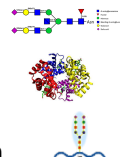
Search - Explore

Glycan Search

Protein Search

Glycoprotein Search

Searches by glycan/protein/glycoprotein



PI: William York
CCRC, University of Georgia

Data Access



Data can be accessed via data page
(data.glygen.org), APIs (api.glygen.org)
and SPARQL endpoint (sparql.glygen.org)

Quick Search

What are the glycosyltransferases in species X?

Species:

Quick search to answer user specific
questions in glycan, protein, glycoprotein
and disease domain

GlyGen
Computational and Informatics Resources and Tools for
Glycoscience Research

GlyGen is a data integration and dissemination project for carbohydrate and glycoconjugate related data. GlyGen retrieves information from multiple international data sources and integrates and harmonizes this data. This web portal allows exploring this data and performing unique searches that cannot be executed in any of the integrated databases alone.

Glycan

Search for glycan structures based on their chemical and structural properties.

Protein

Search for proteins based on their sequences, accessions, and annotations.

Glycoprotein

Search for glycoproteins based on the protein or glycan structures involved.

Version

Portal: 1.0.1 (19/Sep/2018)
Webservices: 1.1.10 (03/Apr/2019)
Data: 1.0.13 (26/Apr/2019)

Your Opinion Matters

Please provide feedback and suggestions to help us improve the GlyGen portal and make it more useful for the community.

[LEAVE FEEDBACK](#)

Statistics & Facts

Homo sapiens	
Glycans	3302
Proteins	21080
Glycoproteins	4530
Mus musculus	
Glycans	517
Proteins	22289
Glycoproteins	3792

License and Repository

Data License

Source Code License



GitHub Repository



GitHub

<https://github.com/glygener>

Open license for data and source code

Funded by: NIH Common Funds Glycoscience Program Grant U01 GM125267-01

Web portal: <https://glygen.org>
Data store: <https://data.glygen.org>
WS API: <https://api.glygen.org>

CONTACT
Will York will@ccrc.uga.edu
Raja Mazumder mazumder@gwu.edu

GlyGen.org

https://twitter.com/gly_gen