

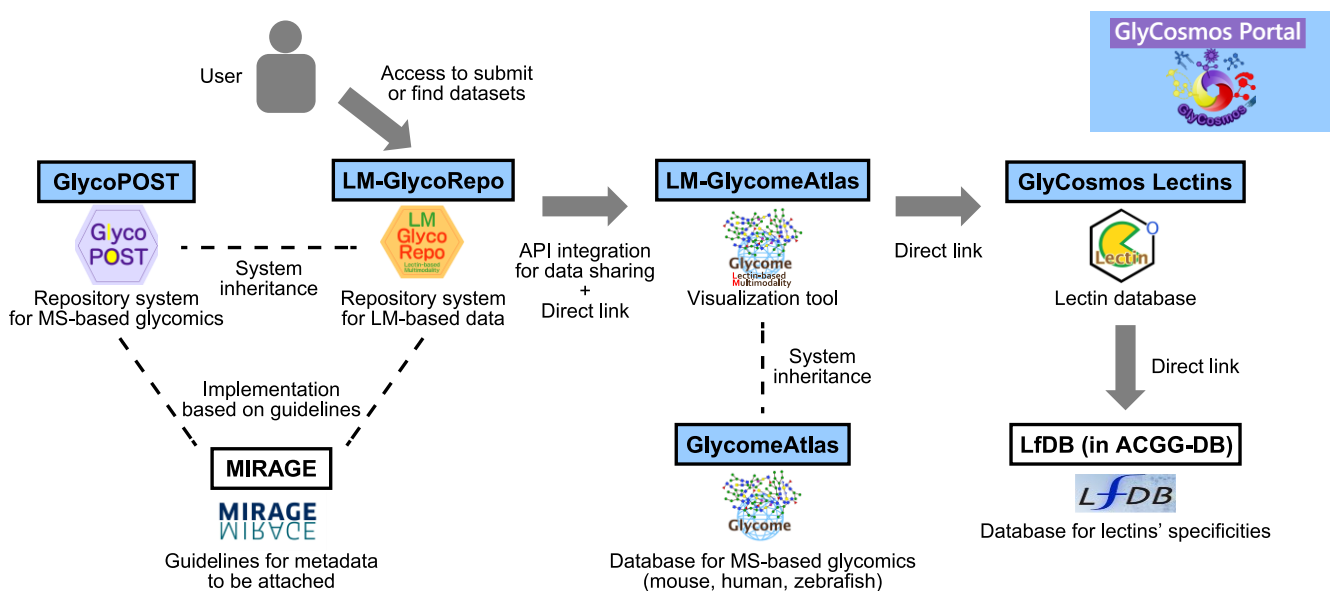


LM-GlycoRepo Ver.1.0

Last update: 12/2024

About LM-GlycoRepo

LM-GlycoRepo is a repository of lectin-based multimodal (LM) data that is according to the international guideline MIRAGE (Minimum Information Required for a Glycomics Experiment). Users can access LM-GlycoRepo via the GlyCosmos Portal to submit or explore datasets of LM data. Deposited data can be visualized through a direct link to LM-GlycomeAtlas, a web browser-based visualization tool for tissue glycome mapping data. Through LM-GlycomeAtlas, users can access detailed information on the lectins used in the analysis, including their carbohydrate-binding specificities deposited in LfDB, a part of ACGG-DB, via the lectin database GlyCosmos Lectins.



The current version (ver. 1.0) is specialized in mouse tissue glycome mapping data obtained using a laser microdissection (LMD)-assisted lectin microarray (LMA) (Zou et al. Sci Rep 2017). Users can deposit datasets of LMD images, LMA data, and high-resolution histological images, including images of tissue sections stained with multiple lectins on the array. As this repository system is implemented based on GlycoPOST, users can deposit such data sets with a unique identifier for the paper publication and suspend (or “embargo”) them until their paper is published. After the release date specified by the user, the deposited data are made available and can be visualized using a tool called LM-GlycomeAtlas.

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Tissue glycomic profiling dataset (“Reference 1-4” in the data list)

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