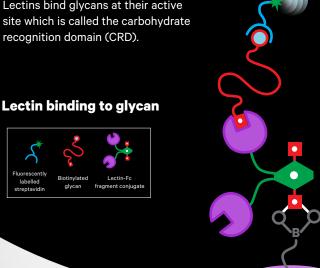
Glycan binding insights | Get to know your lectin

How lectins bind to glycans

Lectins are proteins that bind carbohydrate structures (glycans) and are found within numerous plant and animal tissues and organisms.

Lectins bind glycans at their active site which is called the carbohydrate recognition domain (CRD).



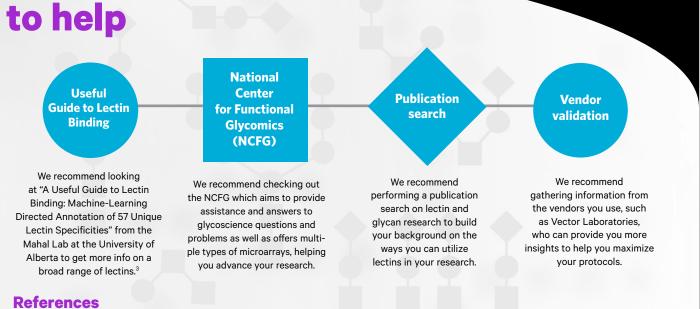
Understanding glycan-binding specificity

Lectin binding is complex. Historically it has been difficult to dissect the specificity of these complex interactions.

You can understand binding through tools such as:

- Lectin inhibition assays
- Glycan arrays
- Machine learning^{1,2}

Resources

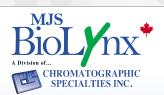


1. Kletter D, et al. 2013. Determining Lectin Specificity from Glycan Array Data Using Motif Segregation and GlycoSearch Software. Current Protocols in Chemical Biology.

2. 3. Lam SK, et al. 2010. Lectins: Production and Practical Applications. Applied Microbiology and Biotechnology

Bojar D, et al. 2022. A Useful Guide to Lectin Binding: Machine-Learning Directed Annotation of 57 Unique Lectin Specificities. ACS Chemical Biology.

Available in Canada from...



For more information please visit: vectorlabs.com/glycobiology

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