

Table S1. Abbreviations and carbohydrate specificities of 45 lectins on LecChip

Lectin	Origin	Binding specificity
1 AAL	<i>Aleuria aurantia</i>	Terminal α -Fuc, Sia-Le ^x and Le ^x
2 ABA	<i>Agaricus bisporus</i>	Gal β 1-3GalNAc α -Thr/Ser (T) and sialyl-T
3 ACA	<i>Amaranthus caudatus</i>	Gal β 1-3GalNAc α -Thr/Ser (T)
4 ACG	<i>Agrocybe cylindracea</i>	Sia α 2-3Gal β 1-4GlcNAc
5 AOL	<i>Aspergillus oryzae</i>	Terminal α -Fuc, Sia-Le ^x and Le ^x
6 BPL	<i>Bauhinia purpurea alba</i>	Gal β 1-3GalNAc and NA ₃ , NA ₄
7 Calsepa	<i>Calystega sepium</i>	Man and Maltose
8 ConA	<i>Canavalia ensiformis</i>	α -Man (inhibited by presence of bisecting GlcNAc)
9 DBA	<i>Dolichos biflorus</i>	GalNAc α -Thr/Ser (Tn) and GalNAc α 1-3GalNAc
10 DSA	<i>Datura stramonium</i>	(GlcNAc) _n , polyLacNAc and LacNAc (NA ₃ , NA ₄)
11 ECA	<i>Erythrina cristagalli</i>	Lac/LacNAc
12 EEL	<i>Euonymus europaeus</i>	Gal α 1-3[Fuc α 1-2Gal] > Gal α 1-3Gal
13 GNA	<i>Galanthus nivalis</i>	Non-substituted α 1-6Man
14 GSL-I-A4	<i>Griffonia simplicifolia</i>	α -GalNAc and GalNAc α -Thr/Ser (Tn)
15 GSL-I-B4	<i>Griffonia simplicifolia</i>	α -Gal
16 GSL-II	<i>Griffonia simplicifolia</i>	Agalactosylated <i>N</i> -glycan
17 HHL	<i>Hippeastrum hybrid</i>	Non-substituted α 1-6Man
18 HPA	<i>Helix pomatia</i>	Terminal GalNAc
19 Jacalin	<i>Artocarpus integrifolia</i>	Gal β 1-3GalNAc α -Thr/Ser (T) and GalNAc α -Thr/Ser (Tn)
20 LCA	<i>Lens culinaris</i>	Fuc α 1-6GlcNAc, α -Man and α -Glc
21 LEL	<i>Lycopersicon esculentum</i>	(GlcNAc) _n and polyLacNAc
22 LTL	<i>Lotus tetragonolobus</i>	Fuc α 1-3GlcNAc, Sia-Le ^x and Le ^x
23 MAH	<i>Maackia amurensis</i>	Sia α 2-3Gal β 1-3[Sia α 2-6GalNAc] α -R
24 MAL-I	<i>Maackia amurensis</i>	Sia α 2-3Gal
25 MPA	<i>Maclura pomifera</i>	Gal β 1-3GalNAc α -Thr/Ser (T) and GalNAc α -Thr/Ser (Tn)
26 NPA	<i>Narcissus pseudonarcissus</i>	Non-substituted α 1-6Man
27 PHA(E)	<i>Phaseolus vulgaris</i>	NA ₂ and bisecting GlcNAc
28 PHA(L)	<i>Phaseolus vulgaris</i>	Tri- and tetra-antennary complex-type <i>N</i> -glycan
29 PNA	<i>Arachis hypogaea</i>	Gal β 1-3GalNAc α -Thr/Ser (T)
30 PSA	<i>Pisum sativum</i>	Fuc α 1-6GlcNAc and α -Man
31 PTL-I	<i>Psophocarpus tetragonolobus</i>	α -GalNAc and Gal
32 PWM	<i>Phytolacca americana</i>	(GlcNAc) _n and polyLacNAc
33 RCA120	<i>Ricinus communis</i>	Lac/LacNAc
34 SBA	<i>Glycine max</i>	Terminal GalNAc (especially GalNAc α 1-3Gal)
35 SNA	<i>Sambucus nigra</i>	Sia α 2-6Gal/GalNAc
36 SSA	<i>Sambucus sieboldiana</i>	Sia α 2-6Gal/GalNAc
37 STL	<i>Solanum tuberosum</i>	(GlcNAc) _n and polyLacNAc
38 TJA-I	<i>Trichosanthes japonica</i>	Sia α 2-3Gal β 1-4GlcNAc β -R
39 TJA-II	<i>Trichosanthes japonica</i>	Fuc α 1-2Gal, β -GalNAc > NA ₃ , NA ₄
40 TxLC-I	<i>Tulipa gesneriana</i>	Man ₃ , bi- and tri-antennary complex-type <i>N</i> -glycan, GalNAc
41 UDA	<i>Urtica dioica</i>	(GlcNAc) _n and polyLacNAc
42 UEA-I	<i>Ulex europaeus</i>	Fuc α 1-2LacNAc
43 VVA	<i>Vicia villosa</i>	α -, β -linked terminal GalNAc and GalNAc α -Thr/Ser (Tn)
44 WFA	<i>Wisteria floribunda</i>	Terminal GalNAc (e.g., GalNAc β 1-4GlcNAc)
45 WGA	<i>Triticum vulgaris</i>	(GlcNAc) _n and multivalent Sia

Binding specificities are based on Lectin Frontier Database (LfDB; <https://acgg.asia/lfdb2>).