

**Supplementary Table S1.** Average fluorescence intensity of lectin binding to cell surface proteins isolated from human primary monocytes. Cells were treated with TNF $\alpha$  in the presence of human serum albumin (HSA) or recombinant human galectins (rhGal1, rhGal3, rhGal8). Significance was determined against results from cells treated with HSA. Statistically significant data are highlighted in bold.

				+TNF $\alpha$						
Lectin	Symbol	Position	Glycan specificity	HSA	rhGal1		rhGal3		rhGal8	
				Avg.	Avg.	p	Avg.	p	Avg.	p
O-glycans										
<i>Amaranthus caudatus</i>	ACL	2CD	Gal $\beta$ 3GalNAc	1.5	0.0	0.2	0.0	0.2	1.1	0.6
<i>Bauhinia purpurea</i>	BPA	3AB	Gal $\beta$ 3GalNAc	1.0	0.0	0.4	0.0	0.4	0.7	0.8
<i>Griffonia simplicifolia I</i>	GS-I	6GH	$\alpha$ Gal, $\alpha$ 3GalNAc	0.0	0.0	N/A	0.0	N/A	0.0	N/A
Jacalin	Jacalin	7AB	Gal $\beta$ 3GalNAc	2.1	0.0	<b>&lt;0.001</b>	2.5	<b>0.02</b>	3.0	<b>&lt;0.001</b>
<i>Maclura pomifera</i>	MPA	8IJ	Gal $\beta$ 3GalNAc	2.2	0.0	<b>&lt;0.001</b>	0.6	0.1	2.6	<b>0.04</b>
Peanut	PNA	10CD	Gal $\beta$ 3GalNAc	3.0	0.0	0.2	0.8	0.6	3.0	0.5
<i>Psophocarpus</i>	PTL	10KL	GalNAc, Gal	3.3	3.2	0.4	3.3	0.6	3.5	0.2
<i>Sambucus nigra II</i>	SNA-II	11KL	GalNAc > Gal	0.0	0.0	N/A	0.0	N/A	0.0	N/A
<i>Sophora japonica</i>	SJA	11GH	$\beta$ GalNAc	3.0	2.7	0.9	2.4	0.2	3.2	0.2
Soybean	SBA	11EF	$\alpha$ > $\beta$ GalNAc	0.6	0.0	0.4	0.9	0.4	0.0	0.4
<i>Vicia villosa</i>	VVA	12KL	GalNAc	3.3	3.2	0.4	3.2	0.5	1.1	0.1
<i>Wisteria floribunda</i>	WFA	13AB	GalNAc	2.8	2.3	0.5	2.5	0.3	3.3	0.1
N-glycans										
Concanavalin A	Con A	3IJ	$\alpha$ Man, $\alpha$ Glc	3.5	3.6	0.4	3.9	0.3	4.0	0.1
<i>Dolichos biflorus</i>	DBA	3KL	$\alpha$ GalNAc	0.0	0.0	N/A	0.0	N/A	0.6	0.4
Human malectin	Malectin	8EF	Glc2-N-biose	3.6	3.5	0.8	3.7	0.6	3.8	0.5
Leucoagglutinin	PHA-L	9KL	Gal $\beta$ 4GlcNAc $\beta$ 6(GlcNAc $\beta$ 2Man $\alpha$ 3)Man $\alpha$ 3	2.3	3.50	0.4	3.0	0.4	1.3	0.5
<i>Phaseolus vulgaris</i>	PHA-P	10AB	Triantenary, tetraantenary structures	2.4	3.3	0.5	3.2	0.5	2.4	0.9

<i>Phaseolus vulgaris</i> Erythroagglutinin	PHA-E	9IJ	Gal $\beta$ 4GlcNAc $\beta$ 2Man $\alpha$ 6( GlcNAc $\beta$ 4)(GlcNAc $\beta$ 4Ma $\alpha$ 3)Man $\beta$ 4	2.5	3.5	0.5	3.9	0.3	1.4	0.5
<i>Poly-N-acetyllactosamine</i>										
<i>Clitocybe nebularis</i>	CNL	3GH	$\alpha$ / $\beta$ GalNAc, GalNAc $\beta$ 4GlcNAc	2.1	0.6	0.1	0.6	0.1	0.6	<b>0.007</b>
<i>Erythrina crista-galli</i>	ECA	4GH	Gal $\beta$ 4GlcNAc	0.9	0.0	0.4	0.8	0.4	0.0	0.4
Human galectin1	GAL1	5AB	Branched LacNAc, Gal	2.6	1.9	0.5	3.1	0.2	3.0	0.4
Human galectin1-S	GAL1-S	5CD	Branched LacNAc	2.6	2.8	0.3	2.7	0.7	3.0	0.4
Human galectin2	GAL2	5EF	Branched LacNAc	0.0	0.0	N/A	0.0	N/A	0.0	N/A
Human galectin3	GAL3	5GH	poly LacNAc	3.6	3.5	0.2	3.6	0.9	4.2	<b>0.04</b>
Human galectin3C-S	GAL3C-S	5IJ	poly LacNAc	3.1	3.0	0.4	3.2	0.9	3.4	0.6
Human galectin7-S	GAL7-S	5KL	Gal $\beta$ 1-3GlcNAc	2.8	3.0	0.7	3.1	0.6	3.3	0.3
Human galectin9	GAL9	6AB	poly LacNAc	3.6	3.7	0.7	3.7	0.8	3.8	0.7
<i>Laetiporus sulphureus</i>	LSL-N	8AB	LacNAc	3.6	3.7	0.3	3.7	0.7	3.7	0.7
<i>Fucose</i>										
<i>Anguilla anguilla</i>	AAA	1IJ	$\alpha$ Fuc	0.0	0.0	N/A	0.0	N/A	0.0	0.0
<i>Aleuria aurantia</i>	AAL	1KL	Fuc $\alpha$ 6GlcNAc	3.3	3.2	0.5	3.6	0.2	3.1	0.4
<i>Burkholderia cenocepacia</i>	BC2LCN	2KL	Fuc $\alpha$ 1-2Gal $\beta$ 1-3GalNAc/ GlcNAc	2.7	2.9	0.4	3.0	0.6	3.1	0.05
<i>Lotus tetragonolobus</i>	Lotus	7KL	$\alpha$ Fuc	1.9	1.6	0.8	2.8	0.4	2.8	0.4
<i>Pseudomonas aeruginosa</i>	PA-IIL	9CD	Fucose, Mannose	0.0	0.0	N/A	0.0	N/A	0.0	N/A
<i>Ralstonia solanacearum</i>	RS-FUC	11AB	Fucose	3.1	3.3	0.6	3.3	0.1	3.3	0.5
<i>Ulex europaeus I</i>	UEA I	12EF	$\alpha$ Fuc	2.0	1.07	0.7	1.8	0.8	0.6	0.2
<i>Sialic acid</i>										
<i>Agrocybe cylindracea</i>	ACG	2AB	$\alpha$ 2-3 Sialic Acid	3.3	3.4	0.9	3.6	0.6	3.8	0.5
<i>Maackia amurensis I</i>	MAA	8CD	Neu5Ac $\alpha$ 2-3Gal( $\beta$ 1– 4)GlcNAc/Glc	3.0	2.7	0.3	2.8	0.6	3.3	0.7
<i>Polyporus squamosus</i>	PSL1A	10IJ	$\alpha$ 2-6 Sialic Acid	4.2	4.1	0.6	4.3	0.7	4.3	0.8
<i>Sambucus nigra I</i>	SNA-I	11IJ	Neu5Ac $\alpha$ 2-6Gal, GalNAc	2.9	3.0	0.8	3.1	0.6	3.1	0.7

<i>Sambucus sieboldiana</i>	SAMB	11CD	NeuAc $\alpha$ 2-6Gal, GalNAc	3.9	3.9	0.7	4.0	0.6	4.0	0.7
Wheat germ	WGA	13CD	GlcNAc, Sialic acid	2.8	2.8	0.7	2.5	0.6	3.3	0.1
<b>Mannose</b>										
<i>Allium sativum</i>	ASA	2EF	$\alpha$ Man	3.2	3.4	0.4	3.4	0.5	3.5	0.2
<i>Burkholderia cenocepacia</i>	BC2L-A	2IJ	High mannose	2.7	2.9	0.4	2.8	0.8	3.3	0.3
<i>Calystegia sepium</i>	CALSEPA	3CD	High mannose	3.3	3.5	0.2	3.4	0.9	3.8	0.4
<i>Galanthus nivalis</i>	GNA	6CD	$\alpha$ Man	3.5	3.7	0.2	3.7	0.5	3.9	0.3
<i>Griffithia sp.</i>	GRFT	6EF	High mannose	3.3	3.5	0.3	3.6	0.4	3.8	0.2
<i>Hippeastrum hybrid</i>	HHA	6KL	$\alpha$ Man	3.3	3.6	0.1	3.6	0.5	3.7	0.2
<i>Narcissus pseudonarcissus</i>	NPA	8KL	$\alpha$ Man	3.4	3.5	0.7	3.6	0.6	3.7	0.3
<i>Oryza sativa</i>	ORYSATA	9AB	High mannose	1.7	0.9	0.5	2.1	0.8	2.2	0.4
<i>Phlebodium aureum</i>	PALa	9GH	High mannose	1.5	0.9	0.4	1.6	0.9	0.0	<b>0.02</b>
<i>Vicia faba</i>	VFA	12IJ	$\alpha$ Man	0.9	0.0	0.1	0.3	0.4	0.0	0.1
<b>Mannose/Glucose</b>										
<i>Lens Culinaris</i>	LcH A	7EF	Man, $\alpha$ Glc	3.4	3.5	0.5	3.7	0.3	3.8	0.3
Lentil	LENTIL	7IJ	D-Mannose, D-glucose	3.4	3.4	0.5	3.6	0.5	3.6	0.5
<i>Musa acuminata</i>	BANLEC	2GH	Mannose, Glucose	3.7	3.9	0.5	3.9	0.4	4.1	0.1
<i>Pisum sativum</i>	Pea	10GH	$\alpha$ Man, $\alpha$ Glc	3.5	3.5	0.7	3.7	0.4	3.7	0.5
<b>N-acetylglucosamine</b>										
<i>Datura stramonium</i>	DSA	4EF	GlcNAc	3.2	3.5	0.4	3.4	0.3	3.3	0.8
<i>E. coli</i>	F17AG	4KL	GlcNAc	3.2	3.4	0.5	3.5	0.6	3.7	0.3
<i>Griffonia (Brandeiraea)</i>	GS-II	6IJ	$\alpha/\beta$ GlcNAc	0.0	0.0	N/A	0.0	N/A	0.0	N/A
<i>Lycopersicon esculentum</i>	LEA	7GH	GlcNAc	1.0	0.0	0.4	0.0	0.4	1.0	0.9
<i>Solanum tuberosum</i>	STL	12AB	GlcNAc	4.0	4.0	0.5	4.1	0.9	4.3	0.5
<i>Ulex europaeus II</i>	UEA-II	12GH	Poly $\beta$ (1,4)GlcNAc	0.7	0.0	0.4	0.0	0.4	0.0	0.4
<i>Urtica dioica</i>	UDA	12CD	GlcNAc	3.4	3.4	0.7	3.4	0.9	3.61	0.5
<b>Galactose</b>										
<i>Coprinopsis cinerea</i>	CGL2	3EF	$\beta$ Gal	3.8	3.9	0.8	4.0	0.6	4.5	<b>0.03</b>

<i>Dictyostelium discoideum I</i>	Discoidin I	4AB	$\alpha$ GalNAc	1.0	0.0	0.4	1.4	0.6	1.2	0.8
<i>Dictyostelium discoideum II</i>	Discoidin II	4CD	Gal, LacNAc	3.0	0.0	<b>0.01</b>	2.1	0.2	3.5	0.3
<i>Eunonymus europaeus</i>	EEL	4IJ	Gal $\alpha$ 3Gal	1.8	2.0	0.9	2.2	0.8	1.9	0.5
<i>Marasmius oreades</i>	MOA	8GH	Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal	2.9	1.8	0.3	2.3	0.6	2.2	0.6
<i>Phaseolus lunatus</i>	LBA	7CD	GalNAc $\alpha$ (1,3)[ $\alpha$ Fuc(1,2)] Gal	0.2	0.0	0.4	0.0	0.4	0.0	0.4
<i>Pleurocybella porrigens</i>	PPL	10EF	$\alpha$ / $\beta$ GalNAc	0.0	0.0	N/A	0.0	N/A	0.0	N/A
<i>Pseudomonas aeruginosa</i>	PA-IL	9EF	Gal $\alpha$ 1-3(4)Gal	0.0	0.0	N/A	0.7	0.4	0.0	N/A

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N/A, not applicable.