

Supplemental Data

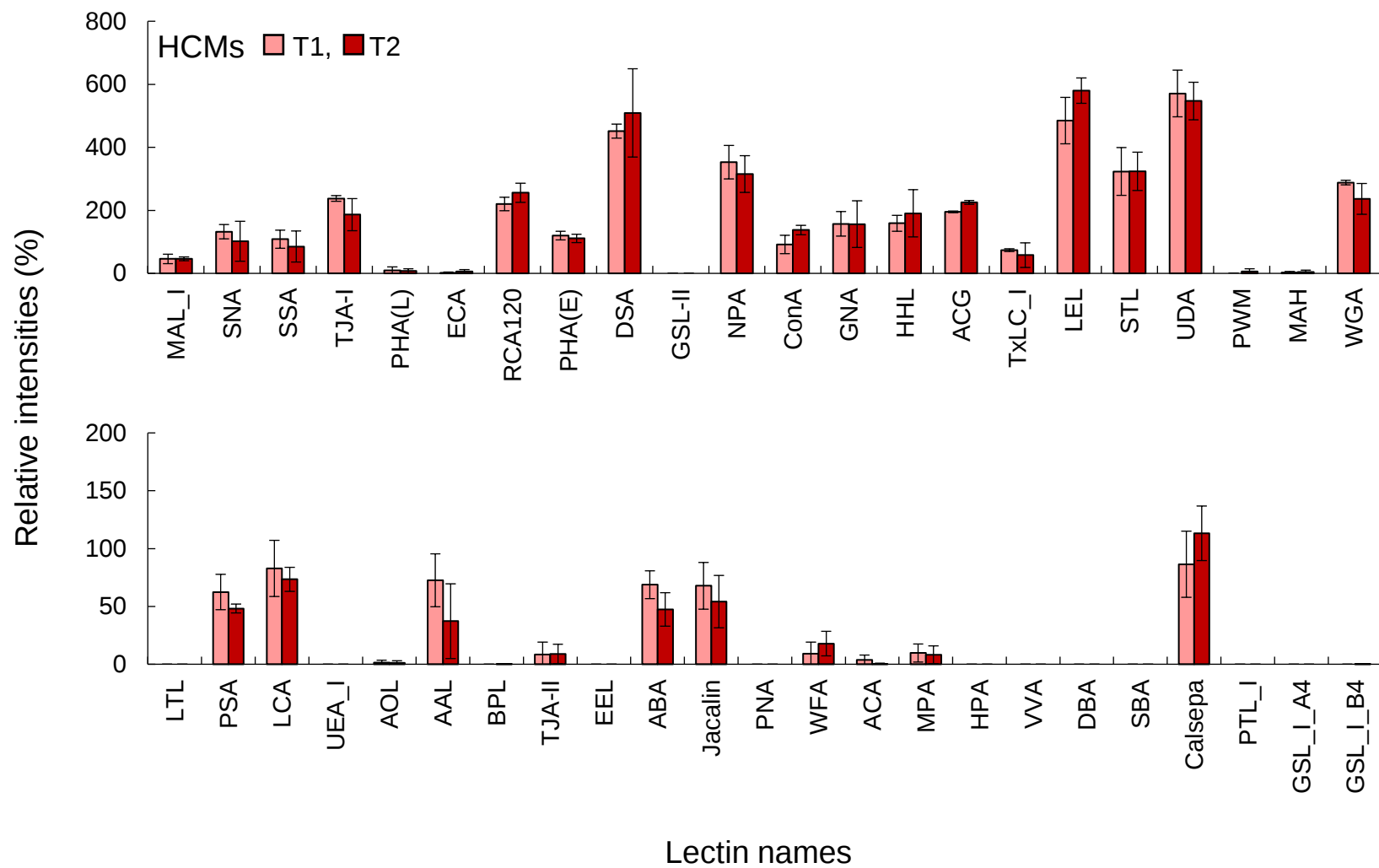
Journal name: *Biogerontology*

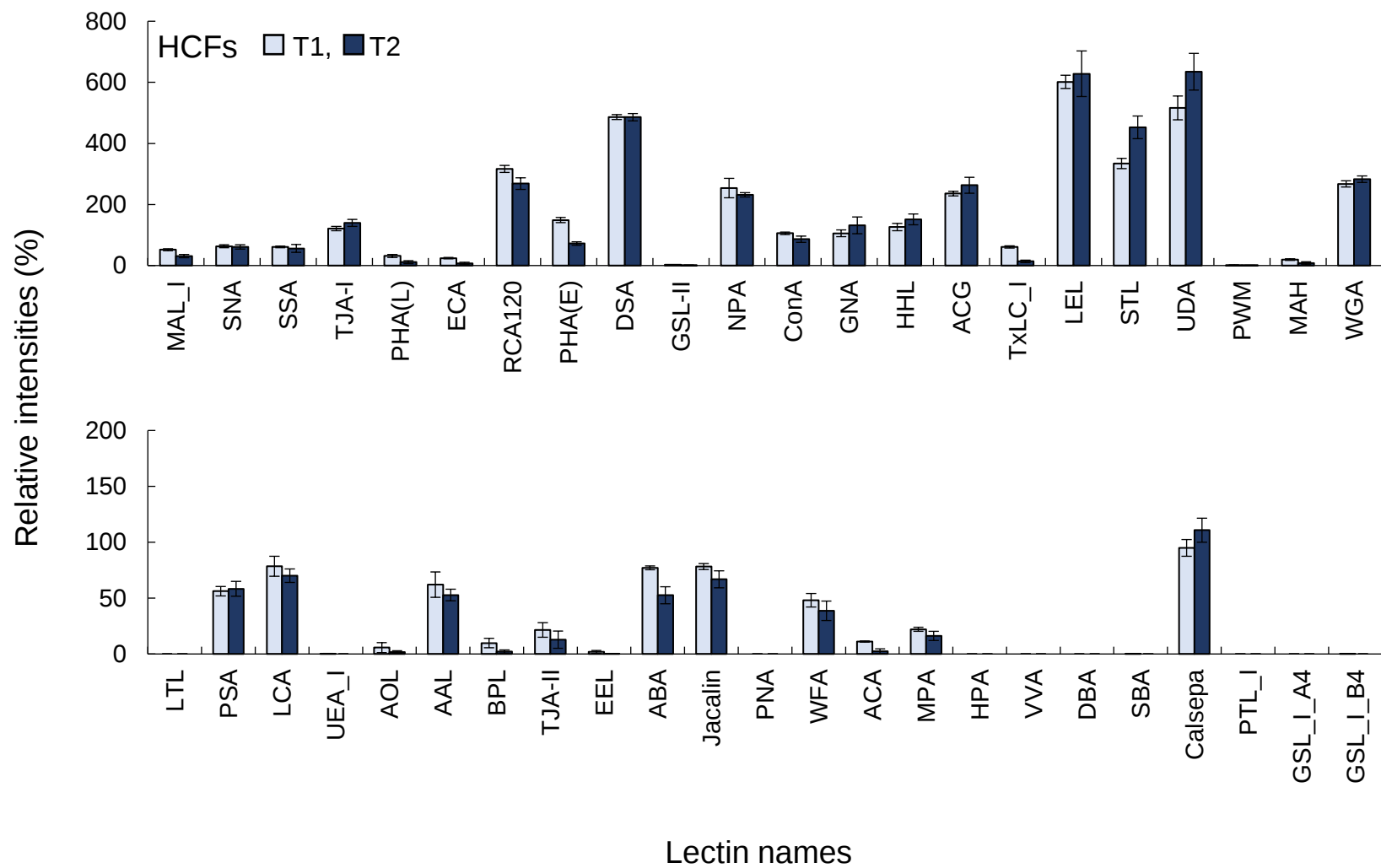
Title: Glycan characteristics of human heart constituent cells maintaining organ function: relatively stable glycan profiles in cellular senescence

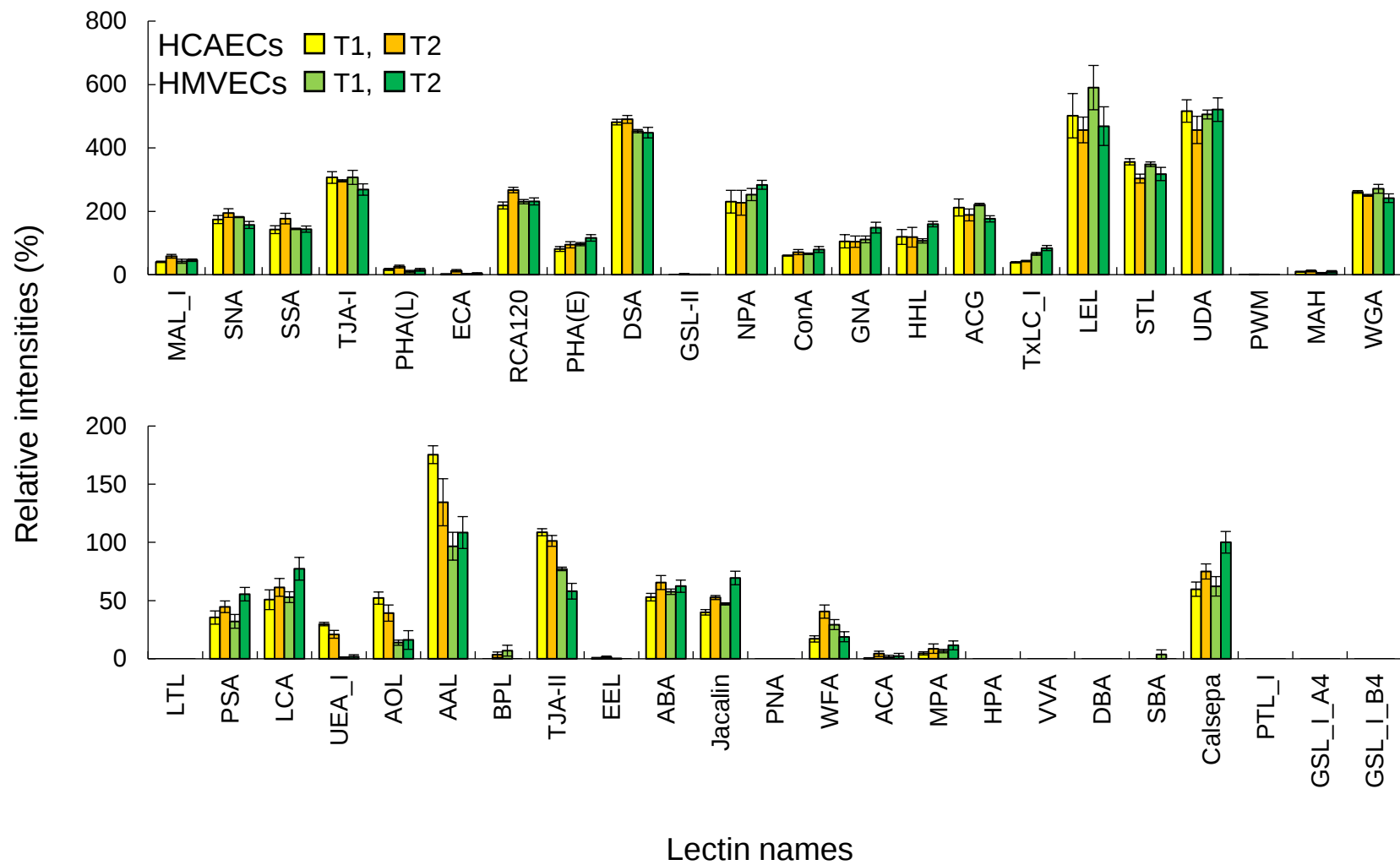
Author names: Yoko Itakura, Norihiko Sasaki, and Masashi Toyoda*

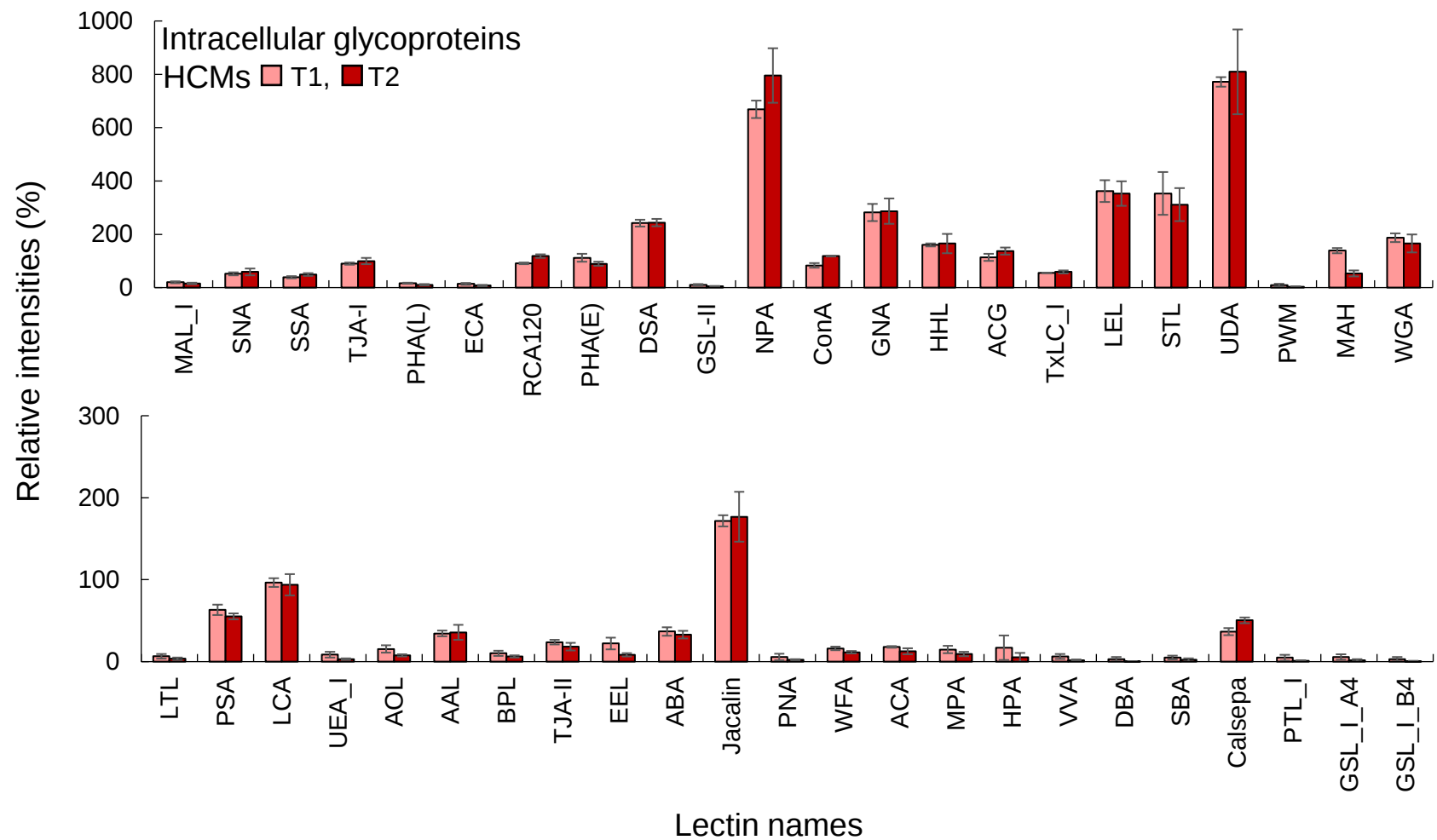
*Correspondence: Masashi Toyoda,

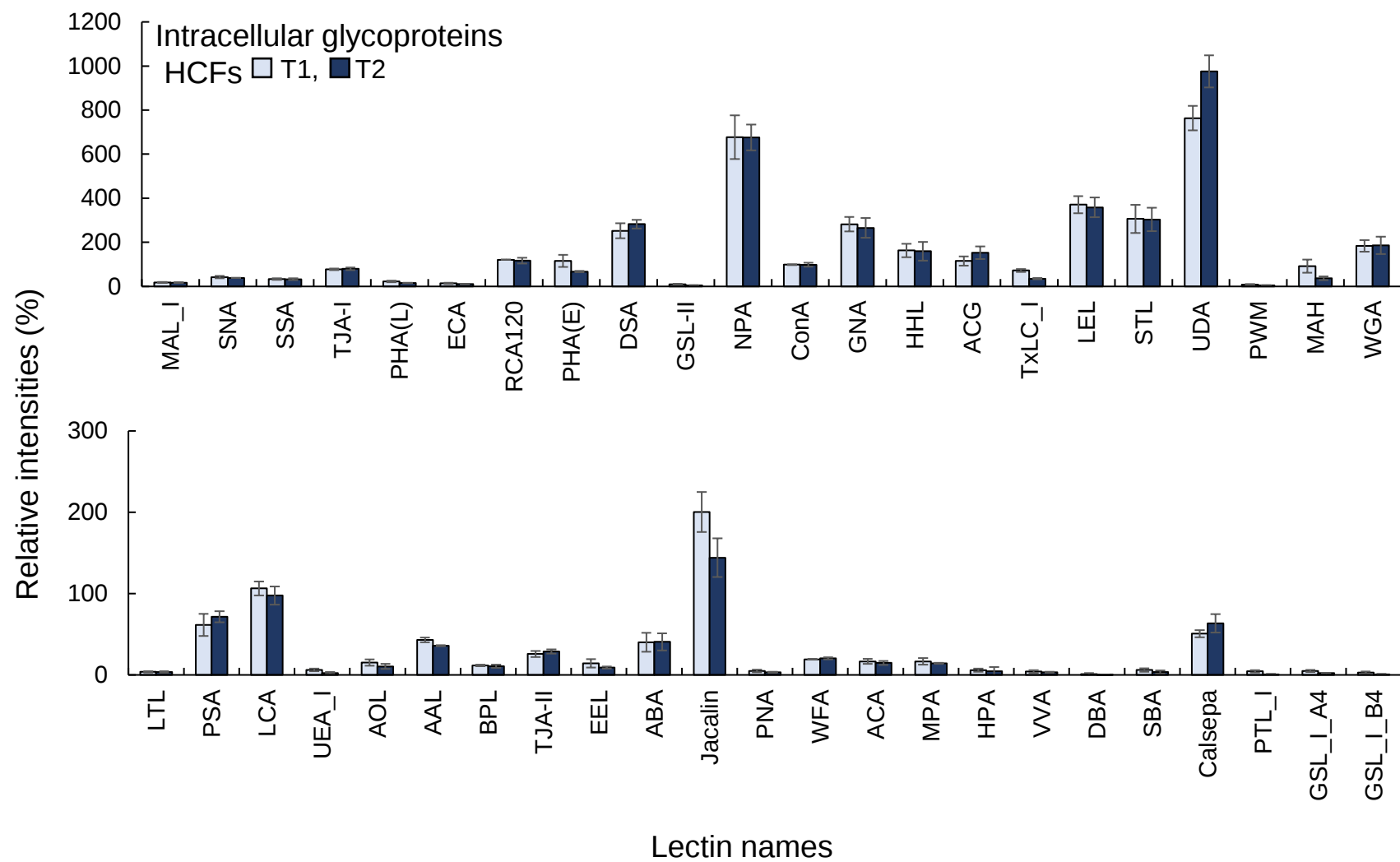
Research Team for Geriatric Medicine (Vascular Medicine), Tokyo Metropolitan Institute of Gerontology, 35-2 Sakae-cho, Itabashi-ku, Tokyo 173-0015, Japan; E-mail: mtoyoda@tmig.or.jp; Tel.: +81-3-3964-3241

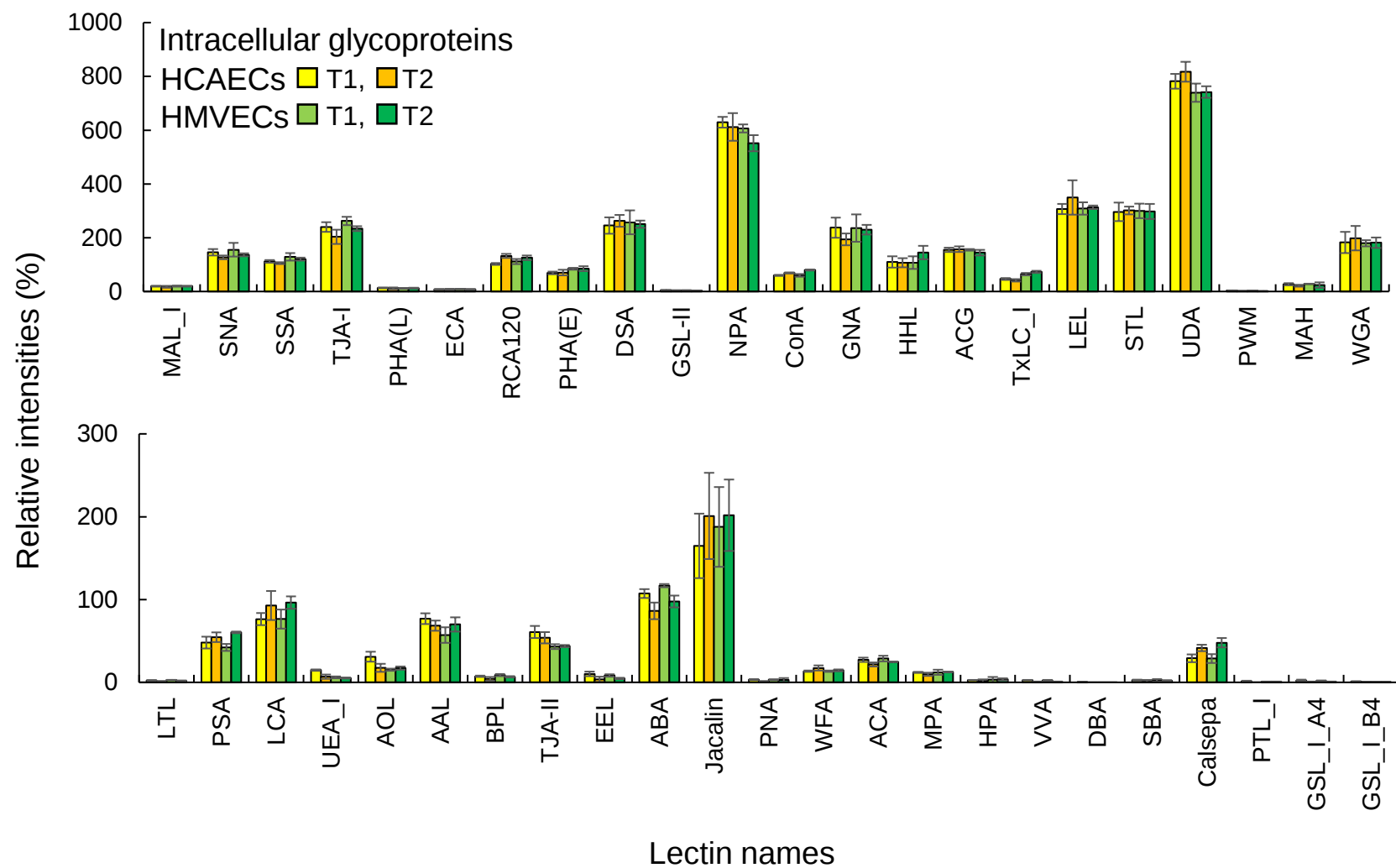


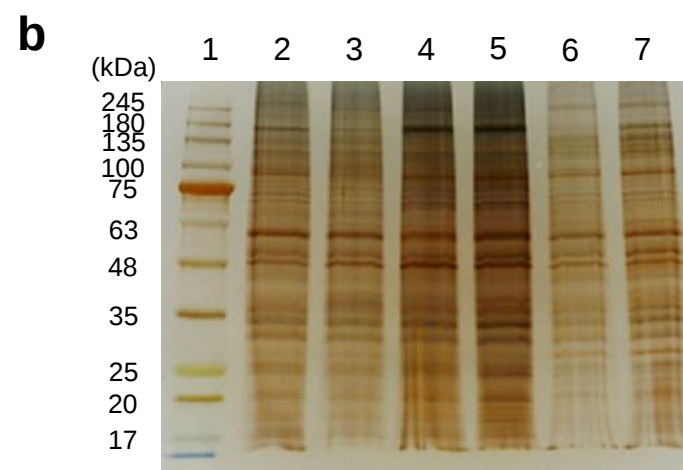
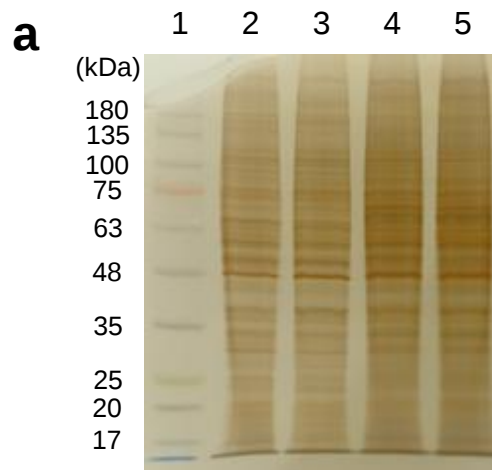




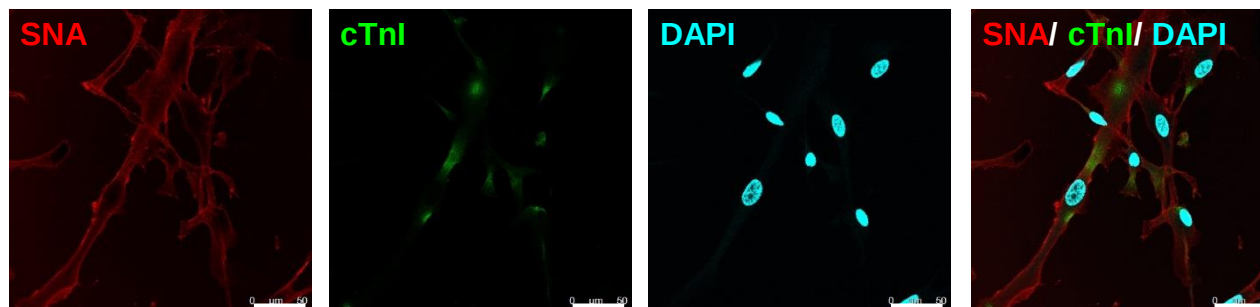




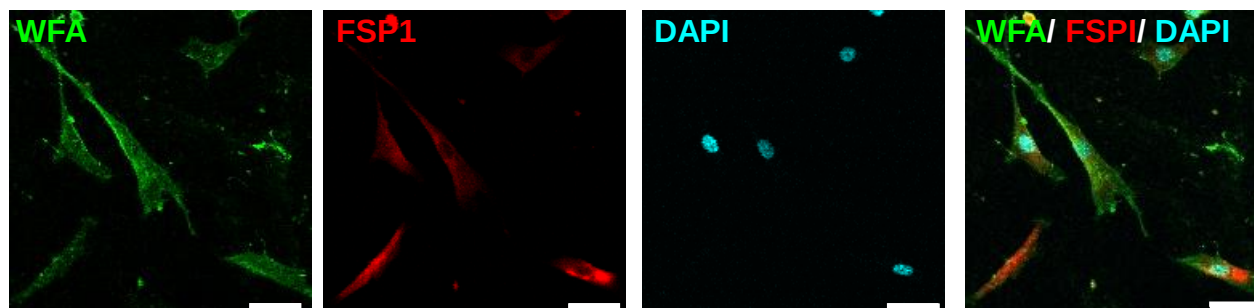




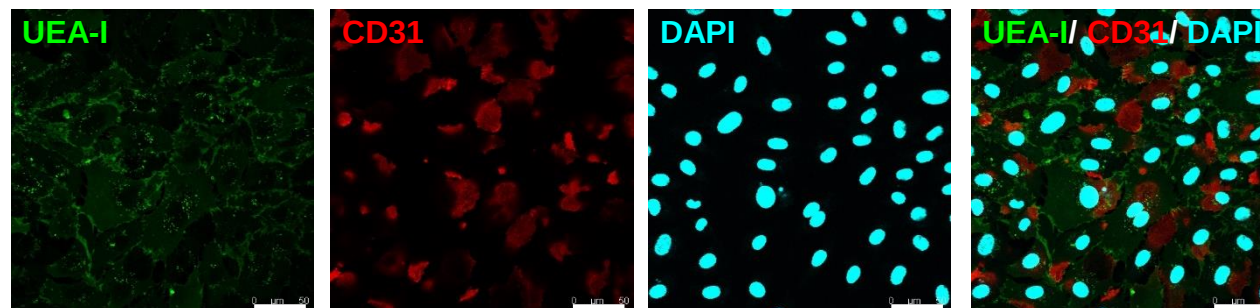
a HCMs

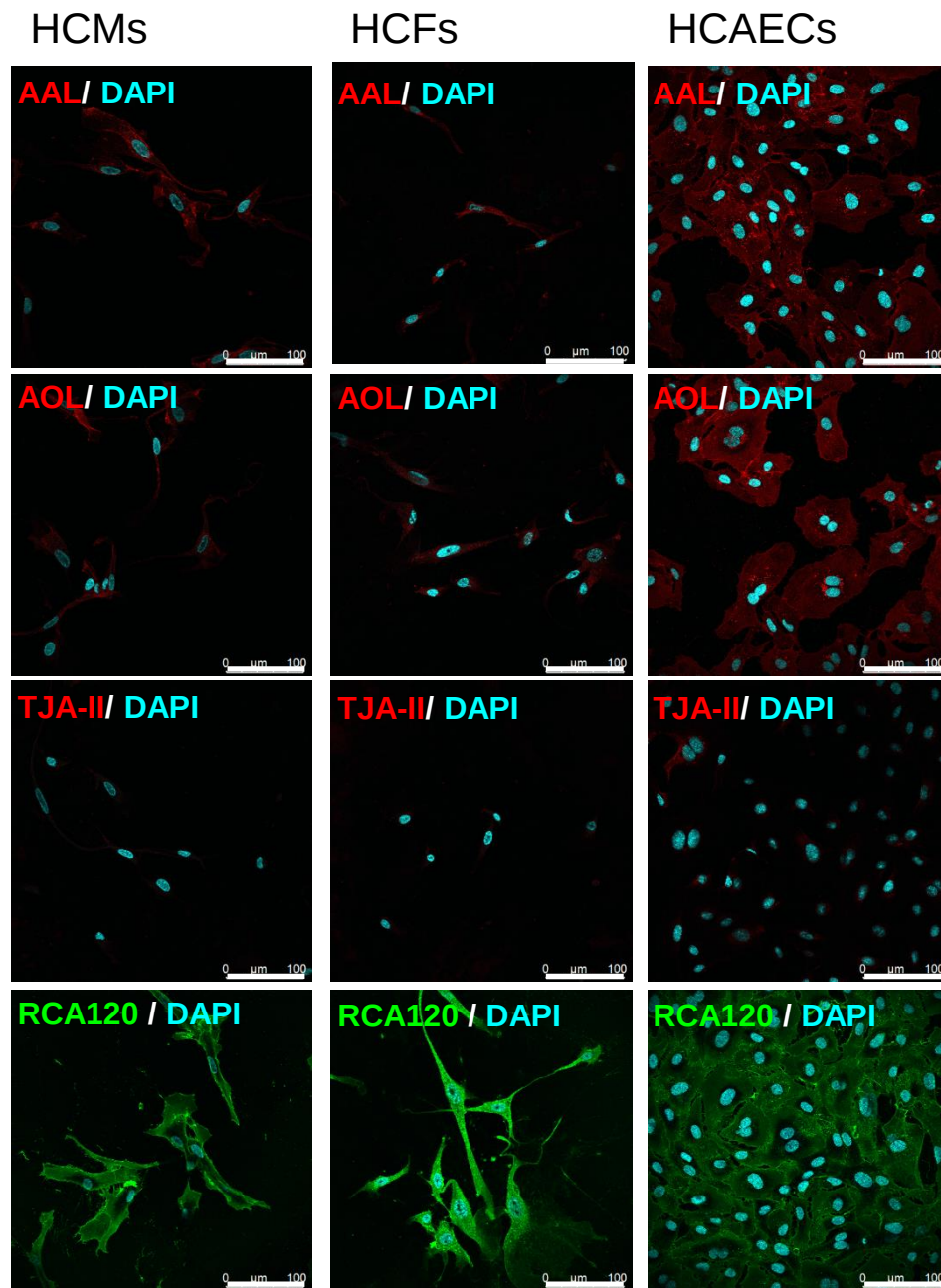


b HCFs



c HCAECs





Supplemental Table S1. A List of lectins for the microarray.

Abbreviation	Lectin name	Glycan binding specificity ^{*1}	Reference No. of LfDB ^{*2}
LTL	<i>Lotus tetragonolobus</i>	Fuc α 1-3(Gal β 1-4)GlcNAc, Fuc α 1-2Gal β 1-4GlcNAc	LfDB0178
PSA	<i>Pisum sativum</i>	Fuc α 1-6GlcNAc, α -Man	LfDB0181
LCA	<i>Lens culinaris</i>	Fuc α 1-6GlcNAc, α -Man	LfDB0171
UEA-I	<i>Ulex europaeus</i>	Fuc α 1-2Gal β 1-4GlcNAc	LfDB0185
AOL	<i>Aspergillus oryzae</i>	Fuc α 1-6GlcNAc, Fuc α 1-2Gal β 1-4GlcNAc	LfDB0129
AAL	<i>Aleuria aurantia</i>	Fuc α 1-3(Gal β 1-4)GlcNAc, Fuc α 1-6GlcNAc	LfDB0124
MAL-I	<i>Maackia amurensis</i>	Sia α 2-3Gal β 1-4GlcNAc	-
SNA	<i>Sambucus nigra</i>	Sia α 2-6Gal/GalNAc	LfDB0233
SSA	<i>Sambucus sieboldiana</i>	Sia α 2-6Gal/GalNAc	LfDB0232
TJA-I	<i>Trichosanthes japonica</i>	Sia α 2-6Gal/GalNAc	LfDB0224
PHA(L)	<i>Phaseolus vulgaris</i>	tri/tetra-antennary complex-type N-glycan	LfDB0180
ECA	<i>Erythrina cristagalli</i>	Gal β 1-4GlcNAc	LfDB0175
RCA120	<i>Ricinus communis</i>	Gal β 1-4GlcNAc	LfDB0231
PHA(E)	<i>Phaseolus vulgaris</i>	bi-antennary complex-type N-glycan, bisecting GlcNAc	LfDB0179
DSA	<i>Datura stramonium</i>	Gal β 1-4GlcNAc, (GlcNAc) _n	LfDB0162
GSL-II	<i>Griffonia simplicifolia</i>	agalactosylated tri/tetra antennary glycans, GlcNAc	LfDB0176
NPA	<i>Narcissus pseudonarcissus</i>	Man α 1-6Man	LfDB0208
ConA	<i>Canavalia ensiformis</i>	Man α 1-6(Man α 1-3)Man	-
GNA	<i>Galanthus nivalis</i>	Man α 1-3Man	LfDB0206
HHL	<i>Hippeastrum hybrid</i>	Man α 1-3Man, Man α 1-6Man	LfDB0207
ACG	<i>Agrocybe cylindracea</i>	Gal β 1-3Gal, Sia α 2-3Gal β 1-4Glc	LfDB0125
TxLCI	<i>Tulipa gesneriana</i>	Man α 1-3(Man α 1-6)Man, bi-antennary complex-type N-glycan	-
BPL	<i>Bauhinia purpurea alba</i>	Gal β 1-3GalNAc	LfDB0173
TJA-II	<i>Trichosanthes japonica</i>	Fuc α 1-2Gal β	LfDB0225
EEL	<i>Euonymus europaeus</i>	Gal α 1-3Gal β 1-4GlcNAc, Fuc α 1-2Gal β 1-3GlcNAc	LfDB0222
ABA	<i>Agaricus bisporus</i>	Gal β 1-3GalNAc	LfDB0126
LEL	<i>Solanum lycopersicum</i>	(GlcNAc β 1-4) _n , (Gal β 1-4GlcNAc) _n	LfDB0164
STL	<i>Solanum tuberosum</i>	(GlcNAc β 1-4) _n	LfDB0167
UDA	<i>Urtica dioica</i>	(GlcNAc β 1-4) _n , High-Man	LfDB0168
PWM	<i>Phytolacca americana</i>	(GlcNAc β 1-4) _n	LfDB0165
Jacalin	<i>Artocarpus integrifolia</i>	Gal β 1-3GalNAc, GalNAc α , GlcNAc β 1-3GalNAc, Man α 1-6(Man α 1-3)Man	LfDB0146
PNA	<i>Arachis hypogaea</i>	Gal β 1-3GalNAc	LfDB0172
WFA	<i>Wisteria floribunda</i>	GalNAc β 1-4GlcNAc, Gal β 1-3GalNAc	LfDB0188
ACA	<i>Amaranthus caudatus</i>	Gal β 1-3GalNAc, Sia α 2-3Gal β 1-3GalNAc	-
MPA	<i>Maclura pomifera</i>	GalNAc α , Gal β 1-3GalNAc	-
HPA	<i>Helix pomatia</i>	GalNAc α	LfDB0105
VVA	<i>Vicia villosa</i>	GalNAc β 1-4Gal, GalNAc β 1-3Gal, GalNAc α	LfDB0187
DBA	<i>Dolichos biflorus</i>	GalNAc α 1-3(Fuc α 1-2)Gal β , GalNAc α 1-3GalNAc	LfDB0174
SBA	<i>Glycine max</i>	Terminal GalNAc	LfDB0166
Calsepa	<i>Calystegia sepium</i>	Galactosylated bi-antennary complex-type N-glycan with bisecting GlcNAc, High-Man	LfDB0156
PTL-I	<i>Psophocarpus tetragonolobus</i>	GalNAc α , Gal α 1-3(Fuc α 1-2)Gal β	LfDB0182
MAH	<i>Maackia amurensis</i>	Sia α 2-3Gal β 1-3GalNAc	-
WGA	<i>Triticum vulgaris</i>	(GlcNAc β 1-4) _n , Hybrid type N-glycan with bisecting GlcNAc	LfDB0163
GSL-I-A ₄	<i>Griffonia simplicifolia</i>	GalNAc α	LfDB0229
GSL-I-B ₄	<i>Griffonia simplicifolia</i>	Gal α	LfDB0230

Each lectin is showed as the abbreviation, the lectin name, and main specificity on LecChip (ver. 1.0).

^{*1} This was modified from the Glyco Technica Ltd. web list. ^{*2} LfDB is shown from the web site (<http://acgg.asia/lfdb2/index>).

Supplemental Table S2. Lectin microarray data of membrane glycoproteins in heart constituent cells.

Growth phase	HCMs								HCFs								HCAECs								HMVECs															
	T1				T2				T1				T2				T1				T2				T1				T2											
	1	2	3	Average	SD	1	2	3	Average	SD	1	2	3	Average	SD	1	2	3	Average	SD	1	2	3	Average	SD	1	2	3	Average	SD	1	2	3	Average	SD					
	(N = 3)																																							
LTL	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0					
PSA	67.6	45.2	74.4	62.4	15.3	52.7	45.9	46	48.2	3.9	52	64.5	52.2	56.2	7.2	51.4	52.1	71.6	58.4	11.5	24.2	43.1	39.1	35.5	10.0	34.8	51.3	47.9	44.7	8.7	20.8	41.1	34.6	32.2	10.4	46.2	66.2	54	55.5	10.1
LCA	90.5	55.6	102.5	82.9	24.4	85.4	68.6	66.4	73.5	10.4	60.7	86.2	88.8	78.6	15.5	65.3	63.1	82.1	70.2	10.4	34.1	57.2	61.3	50.9	14.7	46	69.9	67.8	61.2	13.2	43.7	57.7	57.5	53.0	8.0	57.7	87.1	87.2	77.3	17.0
UEA _I	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0.9	0	0	0.3	0.5	0	0	0	0.0	0.0	32.8	28.2	28.3	29.8	2.6	25.3	14.4	23.2	21.0	5.8	0	2.4	0	0.8	1.4	1.2	4.8	0	2.0	2.5
AOL	3.9	0	0.4	1.4	2.1	3.4	0	0	1.1	2.0	14.6	0.1	2.5	5.7	7.8	4	1.2	0	1.7	2.1	53	60.8	42.8	52.2	9.0	50.6	26.5	40.5	39.2	12.1	12.7	10.8	18.2	13.9	3.8	30.7	15.1	2.8	16.2	14.0
AAL	85	86.5	46.3	72.6	22.8	57	54.9	0	37.3	32.3	82.8	60.2	43.4	62.1	19.8	63	49.4	46	52.8	9.0	168.4	190.6	167.1	175.4	13.2	134.3	169.5	99.7	134.5	34.9	99.3	74.7	116	96.7	20.8	118.7	81.3	125.2	108.4	23.7
MAAL _I	52.7	28.7	56.4	45.9	15.0	39.5	48.5	50.6	46.2	5.9	56.5	52.7	45.5	51.6	5.6	40.7	26.5	23.7	30.3	9.1	44.3	37.6	39.5	40.5	3.5	64.8	45.9	62.9	57.9	10.4	29.2	47.8	49.8	42.3	11.4	42.3	53.6	42.2	46.0	6.6
SNA	132.9	109.1	155	132.3	23.0	140.9	136.6	28.4	102.0	63.7	52.6	68	68.2	62.9	8.9	74.3	56.8	50.3	60.5	12.4	197.5	155.5	169.1	174.0	21.4	218.6	171.5	193.4	194.5	23.6	178.4	182.9	184.2	181.8	3.0	136.3	175.2	159.6	157.0	19.6
SSA	116	76.6	133	108.5	28.9	117	110.5	28.1	85.2	49.6	66.6	57.7	58.9	61.1	4.8	71.4	64.9	31	55.8	21.7	166.7	130.1	129.5	142.1	21.3	202	144.8	183.9	176.9	29.2	140.7	145.1	147.4	144.4	3.4	152.5	154.3	123.8	143.5	17.1
TJA-I	231.5	233.4	248	237.6	9.0	221	210.9	128.1	186.7	51.0	134.3	109.7	118	120.7	12.5	138.3	119.8	160	139.4	20.1	305.7	275.4	338.9	306.7	31.8	291.7	293.3	302.7	295.9	5.9	267.4	309.3	344.3	307.0	38.5	249.1	253.4	303.6	268.7	30.3
PHA(L)	21.2	0	7.2	9.5	10.8	12	11.3	0	7.8	6.7	38.9	32	22.9	31.3	8.0	18.6	12.2	2.1	11.0	8.3	21.7	16.2	12.4	16.8	4.7	33.2	18.8	25.2	25.7	7.2	3.4	16.9	9.8	10.0	6.8	14.8	22.6	7.7	15.0	7.5
ECA	4.6	0	0	1.5	2.7	11.8	5.9	0	5.9	5.9	28	21.6	22.1	23.9	3.6	13.5	6.4	0	6.6	6.8	3.6	2.1	0.4	2.0	1.6	13	5.8	18.4	12.4	6.3	0	5.7	0	1.9	3.3	0	9.4	0	3.1	5.4
RCA120	239.9	197.8	222.8	220.2	21.2	276.9	270	220.8	255.9	30.6	339.3	300.2	310	316.5	20.3	283.7	290.4	231	268.4	32.5	239.8	212	203.7	218.5	18.9	283.3	254	263.2	266.8	15.0	221	243.9	226.7	230.5	11.9	244.6	239.9	209.7	231.4	18.9
PHA(E)	135.3	114.1	110	119.8	13.6	124.4	111.4	97.7	111.2	13.4	165	142.2	138	148.4	14.5	76.9	77.8	60.8	71.8	9.6	85.2	91.8	66	81.0	13.4	112	78.5	92.8	94.4	16.8	90.3	91.9	106.4	96.2	8.9	128.8	122.6	96.1	115.8	17.4
DSA	454.8	472.1	428.1	451.7	22.2	420.6	435.9	670.5	509.0	140.1	501.8	475.7	481.1	486.2	13.8	504.8	464.1	489.1	486.0	20.5	464.8	484	494.9	481.2	15.2	482	514.2	473.9	490.0	21.3	455.8	442.8	460.3	453.0	9.1	480.6	424.2	439.4	448.1	29.2
CTA-II	0	0	0	0.0	0.0	0	0	0	0.0	0.0	2	2.8	2.5	2.4	0.4	0	2.6	0	0.9	1.5	0	0	0	0.0	0.0	0.2	0	5.1	1.8	2.9	0	0.9	0	0.3	0.5	0	1.2	0	0.4	0.7
NPA	303	408.7	347.2	353.0	53.1	327.6	252.3	366.6	315.5	58.1	192.1	267.8	300.6	253.5	55.6	222.7	245.9	226.9	231.8	12.4	158.7	271.1	261	230.3	62.2	157.6	293.4	230.1	227.0	68.0	288.3	223.2	247.1	252.9	32.9	264.1	275.9	310.4	283.5	24.1
ConA	119.3	61.1	94.8	91.7	29.2	137.3	122.9	152.4	137.5	14.8	113.6	99.6	103.6	105.6	7.2	99.9	92	66.6	86.2	17.4	61.7	57.6	61.4	60.2	2.3	80.7	54.5	78.3	71.2	14.5	65.6	69.8	62.2	65.9	3.8	87.2	90.7	61	79.6	6.6
GNA	115	191.8	163.9	156.9	38.9	118.8	108.3	241.5	156.2	74.1	86.4	104.2	125.1	105.2	19.4	92.9	117.1	184.2	131.4	47.3	63.7	123.8	128.5	105.3	36.1	69	116.2	126.5	103.9	30.7	108.8	94.1	131	111.3	18.6	144.5	120.8	179.7	148.3	29.6
HHL	176.1	171.3	129.8	159.1	25.5	158.3	136.8	276.3	190.5	75.1	109.3	149.5	119.5	126.1	20.9	115.6	168.4	169.7	151.2	30.9	75	153.4	128.8	119.1	40.1	77.1	178.9	98.7	118.2	53.6	99.1	101.2	119.9	106.7	11.5	146.6	155.7	175.5	159.3	14.8
ACG	194.6	192.9	198	195.2	2.6	231.8	221.5	222.2	225.2	5.8	233.2	224.1	249.7	235.7	13.0	300	211.7	277.2	263.0	45.8	262.9	173.4	199.3	211.9	46.1	226.2	165.3	173.7	188.4	33.0	228.4	220.6	214.9	221.3	6.8	157	186.7	184.9	176.2	16.0
TxLC _I	78.7	71.6	70.5	73.6	4.5	90.3	69.1	14.9	58.1	38.9	68.3	58.3	56.5	61.0	6.4	16	19.4	5.4	13.6	7.3	37.7	42.4	35.9	38.7	3.4	47.8	41.4	40.1	43.1	4.1	73.1	65.3	59.1	65.8	7.0	98.4	81.9	71.6	84.0	13.5
BPL	0	0	0	0.0	0.0	0.3	0	0	0.1	0.2	18.3	5.4	5.6	9.8	7.4	4.9	1.7	0	2.2	2.5	0	0	0	0.0	0.0	0	2.9	3.5	3.9	2.1	16.4	25.5	7.0	8.1	0	0	0	0.0	0.0	0.0
TJA-II	20.7	0	4.3	8.3	10.9	16.9	9.7	0	8.9	8.5	34.7	14.7	15.2	21.5	11.4	26.9	11.7	0	12.9	13.5	114.6	106.6	105	108.7	5.1	110.6	96.7	96.3	101.2	8.1	74.3	78.1	79.2	77.2	2.6	70.5	55.9	47.5	58.0	11.6
EEL	0	0	0	0.0	0.0	0	0	0	0.0	0.0	4.4	0.8	0.4	1.9	2.2	0.4	0	0	0.1	0.2	1.7	0	0	0	0.6	1.0	2.6	0	1.9	1.5	1.3	0	0.2	0	0.1	0.1	0	0	0.0	0.0
ABA	81.4	57.5	67.6	68.8	12.0	60.9	49.1	32.1	47.4	14.5	77.7	73.9	79.6	77.1	2.9	67.2	49.4	41.4	52.7	13.2	58.1	53.7	47.1	53.0	5.5	76.4	55.6	64.4	65.5	10.4	61.7	57.3	53.6	57.5	4.1	58.8	72.5	55.8	62.4	8.9
LEL	536.1	518.7	400.3	485.0	73.9	553.4	626.2	560.3	580.0	40.2	643.3	591.4	570.2	601.6	37.6	649.2	745.3	489.4	628.0	129.3	640.6	444.5	419.4	501.5	121.1	534.1	397.6	437.9	456.5	70.1	725.8	550.8	494	590.2	120.8	572.7	470.9	362.4	468.7	105.2
STL	237.5	380.1	352.3	323.3	75.6	263.8	321.6	385.8	323.7	61.0	321.7	313.6	367.5	334.3	29.1	417.8	413.6	526.3	452.6	63.9	355.1	339.7	373.4	356.1	16.9	277.9	305.1	327.2	303.4	24.7	351.7	358.6	334.7	348.3	12.3	301.7	291.9	359.3	317.6	36.4
UDA	490.6	636.9	584.9	570.8	74.2	484.5	602.8	554.5	547.3	59.5	449.5	584.5	514.1	516.0	67.5	536.2	623.6	744.9	634.9	104.8	446.4	560.3	542	516.2	61.2	384.4	533.3	451.6	456.4	74.6	480.3	528.4	508	505.6	24.1	473	496.2	593	520.7	63.7
PWM	0	0	0	0.0	0.0	1.4	15.4	0.9	5.9	8.2	0.6	0	1.8	0.8	0.9	0.5	0	0	0.2	0.3	0	0	0	0.0	0.0	0.4	0	0	0.1	0.2	0	0	0	0.0	0.0	0.0	0	0	0.0	0.0
Jacalin	87.4	47.2	68.9	67.8	20.1	72.9	60.6	29.1	54.2	22.6	72.8	81.4	80.7	78.3	4.8	63.9	81.4	55.5	66.9	13.2	35.5	43.2	41.1	39.9	4.0	54.5	49.2	54.3	52.7	3.0	47.4	48.6	45.6	47.2	1.5	72.3	77.9	58.3	69.5	10.1
PNA	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0																											

Supplemental Table S3. Lectin microarray data of intracellular glycoproteins in heart constituent cells.

Growth phase (N = 3)	HCMs												HCFs												HCAECs												HMVECs											
	T1						T2						T1						T2						T1						T2						T1						T2					
	1	2	3	Average	SD		1	2	3	Average	SD		1	2	3	Average	SD		1	2	3	Average	SD		1	2	3	Average	SD		1	2	3	Average	SD		1	2	3	Average	SD		1	2	3	Average	SD	
LTL	3.3	8.3	7.8	6.5	2.8		5	3.4	2.2	3.5	1.4		4.3	4.4	3.1	3.9	0.7		4.8	3.4	3.1	3.8	0.9		2.5	2.5	2	2.3	0.3		0	1.6	1.1	0.9	0.8		2.5	2.9	3	2.8	0.3		1.9	1.3	2.2	1.8	0.5	
PSA	57.3	69.9	62.1	63.1	6.4		57.2	57.3	51	55.2	3.6		55.2	77	52.4	61.5	13.5		68	79.4	67.5	71.6	6.7		40.8	55.2	48.4	48.1	7.2		56.5	59.1	47.8	54.5	5.9		43.8	37.4	45.3	42.2	4.2		59.8	59.8	61.6	60.4	1.0	
LCA	96.2	101.7	91.1	96.3	5.3		108	91	82.3	93.8	13.1		101.8	116.4	100.9	106.4	8.7		102.7	105.4	84.9	97.7	11.1		79.6	81.4	68.1	76.4	7.2		110.3	92.6	75.4	92.8	17.5		89.8	69.8	69.8	76.5	11.5		88.1	102.9	98	96.3	7.5	
UEA_I	4.5	10	11	8.5	3.5	4		2.7	2	2.9	1.0		5.9	7.9	5	6.3	1.5		2.8	3.4	1.3	2.5	1.1		13.9	15.6	14.9	14.8	0.9	4		9	7.7	6.9	2.6		6.7	6.5	4.8	6.0	1.0	5.1		5.8	4.8	5.2	0.5	
AOL	10.3	17.1	18.8	15.4	4.5	8.4		8.4	6.2	7.7	1.3		11.5	19.1	15.6	15.4	3.8	7.1		11.7	13.1	10.6	3.1		24.4	32.2	36.1	30.9	6.0	12.7		17.8	22.4	17.6	4.9		15.1	14.3	16.8	15.4	1.3	15.6		19.4	16.6	17.2	2.0	
AAL	31.9	38.3	32.7	34.3	3.5	43.6		37.7	25.8	35.7	9.1		41.4	46.5	41.5	43.1	2.9		36.1	35.5	36.5	36.0	0.5		72.5	74	84.3	76.9	6.4	74.3		68.9	62.1	68.4	6.1		68.1	50.6	52.7	57.1	9.6	79.9		65.3	64.8	70.0	8.6	
MAL_I	15.6	22	23	20.2	4.0	14.2		19.6	13.6	15.8	3.3		15.2	19.7	16.7	17.2	2.3		14.3	18.2	17.5	16.7	2.1		18.5	21.6	19.6	19.9	1.6	13.3		20.6	19.4	17.8	3.9		19.3	19.5	22.5	20.4	1.8	18.5		20.7	21.3	20.2	1.5	
SNA	46.8	52	57.9	52.2	5.6	61.7		70.7	45.5	59.3	12.8		36.3	46.4	42.9	41.9	5.1		37.5	39.3	37.7	38.2	1.0		157.9	134	147.1	146.3	12.0	126.5		120.5	134.8	127.3	7.2		184.4	138.9	143.2	155.5	25.1	130.3		137.7	140.9	136.3	5.4	
SSA	34.5	40.3	42.7	39.2	4.2	46.5		55.3	46.1	49.3	5.2		34.3	35.3	29.5	33.0	3.1		28.1	36.9	31.2	32.1	4.5		115.8	113.3	106.4	111.8	4.9	103.4		103.6	109.2	105.4	3.3		144.5	117.4	124.7	128.9	14.0	126.6		115.6	119.2	120.5	5.6	
TJA-I	92.3	92.5	85.7	90.2	3.9	93.1		113	93.6	99.9	11.3		73.7	80.1	78.1	77.3	3.3		83	72.1	82.7	79.3	6.2		221	257.3	241.9	240.1	18.2	195.1		233.5	182.7	203.8	26.5		245	271.8	271.7	262.8	15.4	224.3		236.1	241.8	234.1	8.9	
PHA(L)	14.6	17.1	18.6	16.8	2.0	10.6	14		8.3	11.0	2.9		20.5	26.4	19.4	22.1	3.8		13.7	15.6	15.3	14.9	1.0		12.2	15.1	13.9	13.7	1.5	8.4		14.9	12.7	12.0	3.3		10.5	13.9	11.7	12.0	1.7	11.8		14.6	11.5	12.6	1.7	
ECA	9.9	15.4	17.2	14.2	3.8	10.2		8.9	5.6	8.2	2.4		10.6	15.9	13.5	13.3	2.7		10.7	10.3	9	10.0	0.9		7.8	8.3	9.3	8.5	0.8	4.8		9.4	9.1	7.8	2.6		9.2	9.8	8.6	9.2	0.6	7		9.3	8.4	8.2	1.2	
RCA120	93.7	87.4	91.5	90.9	3.2	115.3		126.4	113.8	118.5	6.9		121.8	120.5	119.9	120.7	1.0		107.4	131.6	111.5	116.8	13.0		99	104.2	105.1	102.8	3.3	135.7		137.6	124.5	132.6	7.1		107.1	122.5	105.8	111.8	9.3	118.4		134.6	124.2	125.7	8.2	
PHA(E)	114.5	95.9	125.8	112.1	15.1	98.1		84.5	86.5	89.7	7.3		144.5	89.8	113.2	115.8	27.4		64.3	65.8	70.8	67.0	3.4		71.8	72.2	63.9	69.3	4.7	82.3		63.1	65.9	70.4	10.4		86.6	81.2	86.7	84.8	3.1	94		84.7	76.9	85.2	8.6	
DSA	245.8	252.9	227.7	242.1	13.0	248.3		228.7	255.2	244.1	13.7		286.8	219.5	250.1	252.1	33.7		277.7	265.1	303.6	282.1	19.6		226.5	229.9	280.2	245.5	30.1	247.5		287.8	253.4	262.9	21.8		227.5	308.5	236	257.3	44.5	266.1		243.2	242.8	250.7	13.3	
GSII-II	7.6	9.7	13.3	10.2	2.9	5.3		6.8	4.1	5.4	1.4		6.8	11.2	8	8.7	2.3		4.4	4.1	5.6	4.7	0.8		5.1	5.5	5	5.2	0.3	4		3.2	4.5	2.6	2.3	4		5.6	4.2	4.6	0.9	3.3	4.4		3.4	3.7	0.6	
NPA	659.6	641.3	705.2	668.7	32.9	764.7		910	712.4	795.7	102.4		565.6	710.7	754.3	676.9	98.8		637.2	646.7	743.2	675.7	58.6		620.3	615.3	652.8	629.5	20.4	570.9		595.2	670.1	612.1	51.7		594.6	602.3	622.8	606.6	14.6	525.9		544.4	584.2	551.5	29.8	
ConA	82.8	74.8	92.3	83.3	8.8	116.3		118.6	120.1	118.3	1.9		100	95.7	98.9	98.2	2.2		91.4	107.8	93.9	97.7	8.8		58.6	60.9	62.6	60.7	2.0	68.1		67.8	71.6	69.2	2.1		63.4	54.6	63.3	60.4	5.1	78.2		80.9	81.7	80.3	1.8	
GNA	303.8	297.6	244.5	282.0	32.6	246		338.8	275	286.6	47.5		263.4	262.5	320	282.0	32.9		281.2	214.4	299.2	264.9	44.7		195.2	252	265.5	237.6	37.3	171		214.1	197.6	194.2	21.7		177.6	273.7	256.3	235.9	51.2	209.9		243.6	237.9	230.5	18.0	
HLH	163.2	153.7	164.1	160.3	5.8	131.1		203.9	161.7	165.6	36.6		132.7	193.3	163	163.0	30.3		110.7	182.7	184.4	159.3	42.1		87.3	128.3	114.8	110.1	20.9	96		126.5	99.3	107.3	16.7		81.7	113.8	127.2	107.6	23.4	116.5		160.7	158.9	145.4	25.0	
ACG	113.5	100.6	127.2	113.8	13.3	126.4		151.8	132.3	136.8	13.3		93.9	116.3	135.5	115.2	20.8		119	167.6	171.1	152.6	29.1		159.2	145.5	160	154.9	8.2	158.7		146.7	167.3	157.6	10.3		153	158.1	154.4	155.2	2.6	132.3		149.8	152	144.7	10.8	
TLxLC_I	56.3	55.9	54.8	55.7	0.8	61		63.3	53	59.1	5.4		73.9	77.3	64.3	71.8	6.7		35.2	37.4	31.5	34.7	3.0		46.5	50.1	43.8	45.8	3.2	42.8		45.4	36.4	41.5	4.6		69	65.5	59.9	64.8	4.6	77.2		73.4	69	73.2	4.1	
BPL	6.5	12.2	11.7	10.1	3.2	7.7		5.7	5.3	6.2	1.3		11.5	13	11.2	11.9	1.0		9.1	10.7	12.8	10.9	1.9		6.4	8	7.4	7.3	0.8	1.6		5.3	6	4.3	2.4		8.6	7.5	10.1	8.7	1.3	7.4		6.8	5.8	6.7	0.8	
TJA-II	20.4	25.5	25.1	23.7	2.8	17.4		23.2	14.1	18.2	4.6		21.9	29.4	26.3	25.9	3.8		26.2	31.3	29.5	29.0	2.6		52.8	67.2	62.2	60.7	7.3	46.7		60.2	54.8	53.9	6.8		39.8	44.6	45.3	43.2	3.0	44		45	42.6	43.9	1.2	
EEL	15.1	22.1	29.4	22.2	7.2	7.4		10.4	6.6	8.1	2.0		9.9	20	13.5	14.5	5.1		7.8	9.7	10.4	9.3	1.3		7.5	10	13.1	10.2	2.8	0		4.5	6.1	3.5	3.2		6.7	9.2	9	8.3	1.4	4		5.6	5	4.9	0.8	
ABA	33.8	33.9	42.7	36.8	5.1	32.9		37.4	28.2	32.8	4.6		27.1	45.2	48.7	40.3	11.6		28.9	44.3	49.2	40.8	10.6		101.3	111.2	109.6	107.4	5.3	74.6		92.1	92.1	86.3	10.1		117	114.7	118.5	116.7	1.9	89.4		101.5	102.2	97.7	7.2	
LEL	369	318.6	398.8	362.1	40.5	318.3		335.1	405.8	353.1	46.4		354.2	342.6	415	370.6	38.9		316.4	352.3	405.4	358.0	44.8		289.7	303	327.2	306.6	19.0	323.3		303.9	422.8	350.0	63.8		324.9	283.1	319.1	309.0	22.6	318.3		306.2	315.6	313.4	6.4	
STL	433.4	354	272.5	353.3	80.5	339.7		240.5	353.6	311.3	61.7		380.4	269	269.6	306.3	64.1																															