

Supplementary Table 1. Baseline relative abundance of *N*-glycome peaks of AEGIS participants stratified by final type 2 diabetes status

GPs	Relative abundance (%)		Isometric log-ratio relative abundance		P
	No DM (n=1260)	T2D (n=71)	No DM (n=1260)	T2D (n=71)	
1	0.11 [0.08, 0.16]	0.13 [0.09, 0.19]	-1.91 [-2.22, -1.59]	-1.74 [-2.06, -1.49]	0.027
2	0.04 [0.03, 0.06]	0.04 [0.03, 0.06]	-2.97 [-3.31, -2.63]	-2.89 [-3.17, -2.60]	0.162
3	0.08 [0.05, 0.13]	0.09 [0.06, 0.14]	-2.29 [-2.67, -1.86]	-2.18 [-2.55, -1.74]	0.164
4	0.07 [0.05, 0.10]	0.06 [0.04, 0.10]	-2.42 [-2.77, -2.06]	-2.47 [-2.89, -2.07]	0.510
5	2.23 [1.60, 3.27]	2.63 [1.97, 3.48]	1.11 [0.79, 1.45]	1.27 [1.01, 1.54]	0.011
6	1.00 [0.81, 1.38]	1.11 [0.89, 1.36]	0.29 [0.10, 0.58]	0.39 [0.20, 0.61]	0.071
7	0.10 [0.07, 0.13]	0.09 [0.07, 0.12]	-2.08 [-2.33, -1.78]	-2.20 [-2.35, -1.90]	0.284
8	1.93 [1.56, 2.53]	1.92 [1.51, 2.49]	0.97 [0.75, 1.22]	0.97 [0.74, 1.19]	0.727
9	1.05 [0.83, 1.38]	1.09 [0.82, 1.46]	0.35 [0.12, 0.61]	0.35 [0.08, 0.65]	0.996
10	0.66 [0.53, 0.86]	0.69 [0.55, 0.88]	-0.12 [-0.32, 0.12]	-0.10 [-0.28, 0.14]	0.317
11	0.58 [0.47, 0.70]	0.63 [0.50, 0.78]	-0.27 [-0.44, -0.08]	-0.21 [-0.41, 0.02]	0.113
12	0.32 [0.24, 0.42]	0.30 [0.22, 0.37]	-0.85 [-1.12, -0.61]	-0.95 [-1.22, -0.72]	0.045
13	0.08 [0.06, 0.10]	0.08 [0.06, 0.10]	-2.27 [-2.57, -2.02]	-2.29 [-2.55, -2.04]	0.848
14	2.82 [2.29, 3.50]	2.58 [2.09, 3.02]	1.33 [1.13, 1.56]	1.24 [1.05, 1.43]	0.009
15	0.51 [0.41, 0.63]	0.48 [0.38, 0.64]	-0.40 [-0.59, -0.19]	-0.44 [-0.66, -0.21]	0.352
16	1.03 [0.90, 1.18]	0.98 [0.86, 1.12]	0.32 [0.18, 0.46]	0.26 [0.13, 0.37]	0.021
17	1.06 [0.88, 1.22]	1.08 [0.91, 1.24]	0.33 [0.16, 0.49]	0.36 [0.18, 0.49]	0.718
18	0.18 [0.14, 0.22]	0.17 [0.12, 0.20]	-1.45 [-1.74, -1.23]	-1.58 [-1.90, -1.33]	0.013
19	7.53 [6.90, 8.14]	7.28 [6.73, 7.89]	2.33 [2.22, 2.44]	2.28 [2.17, 2.40]	0.066
20	0.64 [0.58, 0.71]	0.65 [0.57, 0.69]	-0.15 [-0.30, -0.04]	-0.17 [-0.29, -0.06]	0.681
21	1.28 [1.11, 1.45]	1.32 [1.08, 1.47]	0.53 [0.38, 0.68]	0.54 [0.40, 0.69]	0.800
22	6.15 [5.39, 7.14]	5.69 [5.07, 6.40]	2.12 [1.97, 2.29]	2.02 [1.89, 2.19]	0.003
23	2.78 [2.31, 3.47]	2.66 [2.21, 3.35]	1.33 [1.13, 1.54]	1.23 [1.06, 1.52]	0.292
24	4.55 [4.10, 5.02]	3.93 [3.48, 4.31]	1.82 [1.69, 1.94]	1.67 [1.55, 1.76]	<0.0001
25	31.38 [29.19, 33.43]	31.93 [28.99, 34.13]	3.78 [3.65, 3.88]	3.77 [3.67, 3.89]	0.594
26	1.40 [1.23, 1.59]	1.39 [1.18, 1.60]	0.63 [0.48, 0.79]	0.64 [0.50, 0.77]	0.946
27	5.40 [4.66, 6.14]	5.58 [4.84, 6.35]	1.99 [1.82, 2.15]	1.99 [1.85, 2.18]	0.377
28	3.18 [2.68, 3.77]	3.12 [2.46, 3.76]	1.46 [1.28, 1.65]	1.46 [1.22, 1.63]	0.735
29	1.82 [1.55, 2.07]	1.71 [1.40, 2.02]	0.89 [0.72, 1.03]	0.79 [0.63, 0.99]	0.060
30	0.30 [0.24, 0.36]	0.29 [0.23, 0.34]	-0.93 [-1.15, -0.73]	-0.97 [-1.16, -0.84]	0.412
31	1.04 [0.87, 1.21]	1.19 [0.95, 1.36]	0.32 [0.13, 0.50]	0.42 [0.21, 0.64]	0.001
32	0.62 [0.50, 0.73]	0.63 [0.55, 0.73]	-0.21 [-0.40, -0.03]	-0.16 [-0.34, -0.03]	0.381
33	0.96 [0.82, 1.13]	0.89 [0.73, 1.09]	0.25 [0.08, 0.42]	0.18 [0.00, 0.39]	0.057
34	6.11 [5.03, 7.28]	6.25 [5.20, 7.48]	2.12 [1.89, 2.31]	2.16 [1.89, 2.32]	0.412
35	0.45 [0.37, 0.54]	0.38 [0.34, 0.50]	-0.52 [-0.73, -0.33]	-0.67 [-0.82, -0.46]	0.009
36	0.56 [0.45, 0.70]	0.61 [0.46, 0.81]	-0.29 [-0.53, -0.04]	-0.14 [-0.53, 0.07]	0.049
37	1.70 [1.40, 2.07]	2.18 [1.81, 2.56]	0.83 [0.60, 1.04]	1.10 [0.84, 1.27]	<0.0001
38	3.26 [2.33, 4.23]	3.28 [2.40, 3.96]	1.48 [1.13, 1.76]	1.43 [1.20, 1.67]	0.645
39	0.44 [0.38, 0.52]	0.52 [0.43, 0.60]	-0.53 [-0.72, -0.36]	-0.40 [-0.59, -0.19]	<0.001
40	0.41 [0.31, 0.53]	0.40 [0.32, 0.51]	-0.61 [-0.89, -0.35]	-0.59 [-0.90, -0.39]	0.734
41	0.45 [0.38, 0.53]	0.43 [0.36, 0.53]	-0.52 [-0.70, -0.35]	-0.55 [-0.74, -0.38]	0.400
42	0.29 [0.23, 0.36]	0.25 [0.19, 0.30]	-0.97 [-1.22, -0.75]	-1.14 [-1.35, -0.90]	<0.001
43	0.42 [0.35, 0.49]	0.42 [0.36, 0.49]	-0.59 [-0.78, -0.43]	-0.59 [-0.75, -0.45]	0.985
44	0.22 [0.18, 0.27]	0.20 [0.17, 0.26]	-1.23 [-1.45, -1.04]	-1.32 [-1.58, -1.06]	0.051
45	0.25 [0.19, 0.32]	0.24 [0.20, 0.31]	-1.12 [-1.40, -0.89]	-1.16 [-1.42, -0.93]	0.553
46	0.16 [0.12, 0.22]	0.16 [0.11, 0.21]	-1.56 [-1.87, -1.24]	-1.64 [-1.95, -1.33]	0.405

Abbreviations: DM, diabetes mellitus; GP, glycome peak; T2D, type 2 diabetes.