BMI	Model (SNPs)		Beta per SD protein (95%CI)	P-value	P(het) All vs Cis	Evidence of causality
RAGE	Pan (11) Cis (1) Pan (5)	•	-0.04 (-0.05,-0.03) -0.08 (-0.10,-0.05) -0.02 (-0.03,-0.01)	1.1e-09 4.9e-10 4.3e-03	0.01	Strong
CTSD CXCL1	Cis (1) Pan (2) Cis (1) Pan (0)	0	-0.01 (-0.02, 0.01) -0.03 (-0.04, -0.02) -0.01 (-0.03, 0.00) 0.02 (-0.04, -0.01)	0.27 4.8e-06 0.06	0.08	Intermediate
CXCL16 Dkk–1	Cis (1) Pan (5) Cis (1)	a a	-0.02 (-0.04,-0.01) -0.03 (-0.06, 0.00) -0.03 (-0.05,-0.02) -0.01 (-0.03, 0.01)	0.04 6.2e–06 0.35	0.14	Intermediate
FABP4 MMP-1	Pan (2) Cis (1) Pan (5) Cis (1)	•	0.10 (0.06,0.13) 0.07 (0.02,0.12) 0.02 (0.01,0.03) 0.01 (0.00,0.02)	3.6e-07 7.2e-03 5.1e-04 0.16	0.39 0.21	Intermediate Intermediate
NT-pro_BNP ST2	Pan (1) Cis (1) Pan (6)	þ	0.02 (0.01,0.04) 0.02 (0.01,0.04) 0.01 (0.01,0.02) 0.01 (0.00,01)	3.9e-03 3.9e-03 1.1e-04	1.00 0.53	Intermediate
TNF-R2	Cis (1) Pan (5) Cis (1)		0.01 (0.00,0.01) -0.03 (-0.04,-0.01) -0.01 (-0.03, 0.01)	5.3e–03 2.1e–03 0.39	0.25	Intermediate
Waist-hip ratio ADM	Pan (4) Cis (1)	•	0.00 (-0.02, 0.01) 0.08 (0.05,0.10)	0.68 6.6e-09	0.00	Strong
CSF–1 Gal–3	Pan (1) Cis (1) Pan (6) Cis (1)		0.06 (0.04,0.08) 0.06 (0.04,0.08) 0.02 (0.01,0.03) 0.01 (0.00,0.03)	3.8e-08 3.8e-08 3.8e-04 0.02	1.00 0.56	Strong
HB-EGF LOX-1	Pan (6) Cis (1) Pan (7) Cis (1)	◆ ◆	-0.06 (-0.07, -0.04) -0.06 (-0.10, -0.01) 0.04 (0.02, 0.06)	1.2e-12 7.9e-03 1.1e-06	0.94 0.07	Intermediate
PAR-1	Cis (1) Pan (2) Cis (1) Pan (11)		-0.03 (-0.05, -0.01) 0.00 (-0.03, 0.03) 0.02 (0.01,0.04)	0.93 4.2e-03 0.82 1.4e-03	0.12	Intermediate
RAGE TF	Cis (1) Pan (4) Cis (1)	ρ	0.03 (0.00,0.05) -0.02 (-0.03,-0.01) 0.00 (-0.02, 0.02)	0.02 5.0e-05 0.96	0.06	Intermediate
TRAIL HDL cholesterol	Pan (7) Cis (1)		-0.01 (-0.02,-0.01) 0.00 (-0.02, 0.02)	2.0e-03 0.80	0.35	Intermediate
GDF-15	Pan (1) Cis (1) Pan (1)		-0.07 (-0.11,-0.03) -0.07 (-0.11,-0.03) -0.08 (-0.14,-0.03)	3.4e-04 3.4e-04 2.5e-03	1.00	Strong
CSF-1 CXCL1	Cis (1) Pan (2) Cis (1)	•	-0.08 (-0.14,-0.03) 0.05 (0.02,0.08) 0.01 (-0.02, 0.05)	2.5e-03 2.5e-03 3.1e-03 0.50	0.14	Intermediate
IL–27 LEP	Pan (8) Cis (1) Pan (2) Cis (1)		-0.02 (-0.04, -0.01) -0.01 (-0.02, 0.01) -0.18 (-0.26, -0.09) -0.04 (-0.17, 0.08)	1.6e-03 0.52 3.9e-05 0.50	0.11 0.09	Intermediate
PAR-1	Pan (2) Cis (1) Pan (9)	•	0.14 (0.09,0.19) 0.05 (-0.02, 0.13) 0.10 (0.06,0.13)	2.4e–07 0.17 8.8e–08	0.08 0.40	Intermediate
SELE	Cis (1) Pan (5) Cis (1)	•	0.07 (0.01,0.12) -0.03 (-0.04,-0.01) 0.01 (-0.09, 0.10)	0.02 1.5e–04 0.88	0.48	Intermediate
LDL cholesterol FGF-23	Pan (7) Cis (1)		0.12 (0.07,0.16) -0.04 (-0.20, 0.12)	4.2e-06 0.62	0.06	Intermediate
FS IL-1ra	Pan (3) Cis (1) Pan (2) Cis (1)	•	0.09 (0.05,0.13) 0.05 (-0.03, 0.13) 0.08 (0.03,0.13) 0.08 (0.03,0.13)	3.2e-05 0.23 2.8e-03	0.35 0.91	Intermediate
TNF-R2	Pan (4) Cis (1)	◆ ->-	-0.13 (-0.19,-0.08) -0.05 (-0.13, 0.03)	4.0e-06 0.24	0.12	Intermediate
Iotal cholesterol	Pan (2) Cis (1)	•	0.11 (0.06,0.16) 0.12 (0.07,0.17)	1.2e-05 2.4e-06	0.71	Strong
RAGE HGF	Pan (9) Cis (1) Pan (1) Cis (1)		0.07 (0.03,0.10) 0.12 (0.06,0.18) -0.11 (-0.18,-0.04) -0.11 (-0.18,-0.04)	2.5e-04 4.7e-05 2.8e-03 2.8e-03	0.14	Strong Intermediate
KIM-1	Pan (6) Cis (1) Pan (5)		0.04 (0.02,0.06) 0.03 (0.00,0.05) -0.05 (-0.06,-0.04)	1.5e–04 0.02 3.1e–12	0.39 0.08	Intermediate
Triglycerides	Cis (1)	· · · · ·	0.04 (-0.06, 0.14)	0.42		Otras a
HGF RAGE	Pan (1) Cis (1) Pan (9) Cis (1)	÷	-0.15 (-0.21,-0.08) -0.15 (-0.21,-0.08) 0.06 (0.03,0.10) 0.13 (0.08,0.18)	3.2e-05 3.2e-05 2.3e-04 2.2e-06	0.04	Strong
KIM-1 2-h alucose	Pan (6) Cis (1)	Þ	0.03 (0.01,0.05) 0.02 (0.00,0.04)	5.2e–04 0.02	0.47	Intermediate
IL16	Pan (1) Cis (1)	•	0.08 (0.04,0.12) 0.08 (0.04,0.12)	2.4e-05 2.4e-05	1.00	Strong
Insulin secretion Dkk-1	Pan (5) Cis (1)		-0.25 (-0.42,-0.08) -0.22 (-0.50, 0.07)	4.0e-03 0.14	0.84	Intermediate
Fasting insulin CCL20	Pan (2) Cis (1)	*	-0.16 (-0.26,-0.06) -0.16 (-0.26,-0.06)	1.6e-03	0.98	Intermediate
	Pan (2) Cis (1)	-0-	0.14 (0.06,0.22) 0.04 (-0.07, 0.15)	7.4e–04 0.49	0.14	Intermediate
TF	Pan (3) Cis (1)		0.04 (0.01,0.06) 0.07 (0.03,0.10)	1.6e-03 9.1e-04	0.24	Strong
EGF FS	Cis (1) Pan (3) Cis (1)	•	-0.08 (-0.14,-0.03) -0.08 (-0.14,-0.03) -0.08 (-0.11,-0.04) -0.04 (-0.09, 0.01)	5.5e-03 3.8e-03 6.1e-06 0.12	0.27	Intermediate
GDF-15	Pan (1) Cis (1) Pan (2) Cis (1)	•	0.04 (0.01,0.07) 0.04 (0.01,0.07) 0.17 (0.10,0.24) 0.07 (-0.03 0.47)	3.9e-03 3.9e-03 7.5e-06	1.00 0.11	Intermediate
RAGE	Pan (9) Cis (1) Pan (11)	•	-0.05 (-0.03, 0.17) -0.05 (-0.08,-0.02) -0.06 (-0.10,-0.01) -0.03 (-0.05 -0.01)	0.18 9.5e-04 0.01 2.0e-02	0.75	Intermediate
SCF Type 2 diabetes		· · ->- · · ·	0.02 (-0.09, 0.14)	0.70		C
PAPPA RAGE	ran (11) Cis (1) Pan (11) Cis (1)		-0.27 (-0.2, 0.05) -0.27 (-0.42,-0.11) -0.08 (-0.13,-0.04) -0.17 (-0.27,-0.08)	0.42 8.6e-04 5.8e-04 2.5e-04	0.00 0.09	Strong
CCL4	Pan (4) Cis (1) Pan (1)	•	0.04 (0.02,0.07) 0.01 (-0.03, 0.06) 0.15 (0.05,0.25) 0.15 (0.05,0.25)	1.5e-03 0.55 2.8e-03	0.26 1.00	Intermediate
LOX-1	Ois (1) Pan (7) Cis (1) Pan (2)		0.13 (0.05,0.25) 0.14 (0.08,0.20) 0.10 (-0.05, 0.26) -0.04 (-0.06, 0.01)	∠.8e-03 2.2e-06 0.20 3.6c.00	0.64	Intermediate
MMP-12 MPO	Cis (1) Pan (10) Cis (1)		0.10 (0.05,0.15) 0.02 (-0.06, 0.10)	0.0e-03 3.2e-03 2.7e-05 0.60	0.96	Intermediate
SELE	Pan (8) Cis (1) Pan (6) Cis (1)	•	-0.06 (-0.07,-0.04) 0.06 (-0.06, 0.18) 0.09 (0.03,0.15) 0.05 (-0.07 0.47)	2.1e-09 0.35 2.1e-03	0.07 0.54	Intermediate
Heart rate	Pan (8)		0.03 (0.01.0.06)	0.42 4.2e-02	0.52	Intermediato
CTSL1 Atrial fibrillation	Cis (1)	•	0.05 (0.00,0.11)	0.06	5.0L	or
CHI3L1 IL–6RA	ran (4) Cis (1) Pan (1) Cis (1)		-0.04 (-0.06,-0.02) -0.04 (-0.07,-0.02) -0.04 (-0.06,-0.03) -0.04 (-0.06,-0.03)	4.3e-04 4.3e-04 4.4e-09 4.4e-09	0.92	Strong
SPON1	Pan (1) Cis (1) Pan (5)	•	0.14 (0.08,0.20) 0.14 (0.08,0.20) 0.13 (0.08,0.18)	1.2e-06 1.2e-06 2.2e-06	1.00 0.07	Strong Intermediate
HB-EGF	Cis (1) Pan (6) Cis (1) Pan (2)		0.03 (-0.06, 0.12) 0.19 (0.12,0.25) 0.12 (-0.01, 0.25) 0.27 (0.13.0.40)	0.48 2.5e–09 0.07	0.38	Intermediate
LEP Ischemic stroke	Cis (1)		0.13 (-0.05, 0.31)	J.3e−05 0.16	v.21	ealate
MMP-12 ADM	Pan (2) Cis (1) Pan (3) Cis (1)	•	-0.09 (-0.13,-0.05) -0.10 (-0.14,-0.06) -0.17 (-0.28,-0.06) -0.11 (-0.27, 0.04)	2.8e-06 5.5e-07 3.0e-03	0.80 0.57	Strong Intermediate
CD40	Pan (2) Cis (1) Pan (8)	•	$\begin{array}{c} -0.07 \ (-0.12, -0.03) \\ -0.07 \ (-0.12, -0.03) \\ -0.07 \ (-0.10, -0.04) \end{array}$	9.0e-04 1.4e-03 4.0e-06	0.96 0.10	Intermediate
TF	Cis (1) Pan (4) Cis (1)	+	0.10 (-0.10, 0.29) -0.17 (-0.23,-0.11) -0.07 (-0.18, 0.04)	0.34 3.5e–08 0.24	0.10	Intermediate
TM All stroke	Pan (4) Cis (1)	•	0.13 (0.08,0.19) 0.08 (0.02,0.14)	0.01	0.22	Intermediate
CD40 MMP-12	Pan (2) Cis (1) Pan (2) Cis (1)		-0.08 (-0.12, -0.04) -0.08 (-0.12, -0.04) -0.09 (-0.12, -0.05) -0.09 (-0.13, -0.05)	1.3e-04 1.6e-04 4.3e-06	0.98 0.83	Strong Strong
MMP-3	Pan (3) Cis (1) Pan (8)		0.06 (0.02,0.10) 0.05 (0.02,0.09) -0.06 (-0.08,-0.03)	3.7e-03 6.2e-03 1.0e-04	0.93 0.22	Intermediate
TF	Cis (1) Pan (4) Cis (1)	+ + -	0.06 (-0.12, 0.24) -0.14 (-0.20, -0.09) -0.05 (-0.15, 0.05)	0.52 6.3e–07 0.36	0.10	Intermediate
TM Coronary heart disease	Pan (4) Cis (1)	◆	0.11 (0.08,0.16) 0.07 (0.02,0.13)	0.01	0.39	Intermediate
IL-6RA PIGF	Pan (1) Cis (1) Pan (2) Cis (1)		-0.05 (-0.07, -0.03) -0.05 (-0.07, -0.03) -0.31 (-0.43, -0.18) -0.35 (-0.51, -0.18)	2.0e-07 2.0e-07 3.6e-06	1.00 0.67	Strong Strong
MMP-12	Pan (2) Cis (1) Pan (5)	•	-0.05 (-0.09,-0.02) -0.06 (-0.10,-0.02) -0.11 (-0.18,-0.04)	4.0e-03 2.2e-03 2.8e-03	0.88 0.07	Intermediate
SCF	Cis (1) Pan (13) Cis (1)	• •	0.01 (-0.10, 0.11) -0.13 (-0.18,-0.08) -0.04 (-0.31, 0.24)	0.88 8.2e-07 0.80	0.52	Intermediate
SELE TF	Pan (8) Cis (1) Pan (4) Cis (1)	•	-0.06 (-0.09,-0.04) 0.06 (-0.13, 0.25) -0.15 (-0.20,-0.09) -0.08 (-0.18, 0.02)	1.1e-06 0.54 3.1e-07 0.12	0.21 0.25	Intermediate
eGFR (creatinine)	Pan (4)		0.16 (0.12,0.20)	7.1e-17	0.23	Strong
ST2	Pan (5) Cis (1) Pan (5)		-0.02 (-0.03, -0.01) -0.02 (-0.03, 0.00) -0.09 (-0.13, -0.04)	2.7e-03 0.02 2.2e-04	0.71	Intermediate
TNF-R2 eGFR (cystatin C)	Cis (1)		-0.02 (-0.09, 0.04)	0.46	0.12	intermediate
CXCL16 FS	Pan (10) Cis (1) Pan (4) Cis (1)		0.12 (0.04,0.20) 0.14 (-0.03, 0.32) 0.17 (0.09,0.26) 0.11 (-0.03, 0.26)	3.6e-03 0.11 1.1e-04 0.12	0.79 0.49	Intermediate
TNF-R2	Pan (5) Cis (1)	→	-0.25 (-0.36,-0.15) -0.10 (-0.24, 0.04)	1.5e–06 0.15	0.09	Intermediate
CX3CL1	Pan (5) Cis (1)	•	0.08 (0.03,0.13) 0.11 (0.04,0.17)	1.7e-03 9.6e-04	0.53	Strong
Dkk–1 TRANCE	Cis (1) Pan (7) Cis (1)	→	0.36 (0.27,0.45) -0.06 (-0.10,-0.02) -0.10 (-0.21, 0.00)	2.2e-03 2.1e-14 2.5e-03 0.06	0.45	Intermediate
Bone mineral density CSF-1	Pan (1)		-0.04 (-0.06,-0.02)	1.3e-04	1.00	Strong
Dkk-1	Pan (5) Cis (1) Pan (1)	• •	-0.18 (-0.20, -0.17) -0.57 (-0.59, -0.54) 0.07 (0.04,0.10)	3.4e-129 0.0e+00 1.6e-06	0.00	Strong
EGF IL-18	Cis (1) Pan (6) Cis (1)	•	0.07 (0.04,0.10) -0.03 (-0.04,-0.02) -0.08 (-0.10,-0.06)	1.6e-06 9.0e-06 2.2e-16	0.00	Strong
PIGF	Pan (2) Cis (1) Pan (7) Cis (1)		-0.10 (-0.13,-0.08) -0.14 (-0.17,-0.11) 0.04 (0.03,0.05) 0.26 (0.23 0.29)	1.2e-14 2.8e-18 8.8e-13 1.3e-62	0.05 0.00	Strong Strong
ADM	Pan (4) Cis (1) Pan (2)		0.04 (0.02,0.06) 0.03 (0.01,0.06) 0.02 (0.01,0.03)	9.6e-06 9.6e-03 2.5e-03	0.63 0.81	Intermediate
CXCL16	Cis (1) Pan (9) Cis (1) Pan (6)		$\begin{array}{c} 0.01 & (0.00, 0.02) \\ -0.02 & (-0.04, -0.01) \\ -0.04 & (-0.07, -0.02) \\ \end{array}$	8.0e-03 1.2e-03 2.1e-03	0.23	Intermediate
FGF–23 MMP–3	Cis (1) Pan (3) Cis (1)		-0.01 (-0.02, 0.00) -0.01 (-0.02, 0.00) -0.01 (-0.02, 0.00)	0.80 0.80 3.7e-03 2.9e-03	0.94	Intermediate
OPG PAPPA	Pan (5) Cis (1) Pan (11) Cis (1)		0.03 (0.02,0.04) 0.03 (0.01,0.05) -0.02 (-0.03,-0.01) -0.03 (-0.07, 0.02)	1.4e-05 4.8e-03 4.5e-07 0.26	0.97 0.93	Intermediate
RAGE	Pan (11) Cis (1) Pan (13)	C	-0.04 (-0.05, -0.03) -0.02 (-0.05, 0.00) 0.03 (0.02, 0.04)	2.7e-09 0.07 2.7e-09	0.27 0.73	Intermediate
SELE	Ois (1) Pan (7) Cis (1) Pan (7)	•	0.02 (-0.03, 0.08) 0.03 (0.03,0.04) 0.02 (-0.01, 0.06) -0.02 (-0.02 -0.01)	0.45 9.3e–31 0.19 3.8e_01	0.71	Intermediate
TRAIL Asthma	Cis (1)	-	0.00 (-0.02, -0.01)	0.87	U. TO	eulate
CASP-8 IL-6RA	Pan (1) Cis (1) Pan (1) Cis (1)		0.32 (0.14,0.51) 0.32 (0.14,0.51) 0.07 (0.04,0.09) 0.07 (0.04 0.00)	6.1e-04 6.1e-04 6.3e-07 6.3e-07	1.00 1.00	Strong Strong
ST2	Pan (3) Cis (1) Pan (8)	• • •	-0.17 (-0.21,-0.13) -0.18 (-0.22,-0.14) -0.17 (-0.26,-0.08)	2.0e-18 4.0e-19 1.2e-04	0.85 0.72	Strong Intermediate
UISL1 IL-27	us (1) Pan (9) Cis (1)		-0.13 (-0.34, 0.08) -0.07 (-0.11,-0.03) -0.03 (-0.08, 0.01)	0.22 1.3e–03 0.14	0.30	Intermediate
Eczema IL–6RA	Pan (1) Cis (1)	•	0.08 (0.04,0.11) 0.08 (0.04,0.11)	1.0e-05 1.0e-05	1.00	Strong
MMP-12 Inflammatory bowel disease	Pan (2) Cis (1)	•	0.13 (0.06,0.20) 0.13 (0.06,0.20)	1.9e-04 2.0e-04	0.99	Strong
CD40	Pan (2) Cis (1) Pan (10)	*	-0.14 (-0.21, -0.07) -0.14 (-0.22, -0.07) -0.09 (-0.23, 0.04) -0.47 (-0.25, -0.04)	1.3e-04 1.6e-04 0.17	0.98 0.01	Strong Strong
FAS	Ois (1) Pan (2) Cis (1) Pan (6)		-0.17 (-0.31,-0.20) -0.25 (-0.40,-0.11) 0.14 (0.09 0.10)	0.02 6.7e-04	0.41	Strong
ST2 CSF-1	Cis (1) Pan (1) Cis (1)	• 	0.14 (0.09,0.19) 0.28 (0.09,0.47) 0.28 (0.09,0.47)	1.2e-07 1.9e-07 4.3e-03 4.3e-03	1.00	Intermediate
CTSL1	Pan (11) Cis (1) Pan (1) Cis (1)		0.17 (0.06,0.27) 0.19 (-0.09, 0.47) -0.45 (-0.74, -0.17) -0.45 (-0.74, -0.17)	1.8e-03 0.18 1.9e-03	0.88 1.00	Intermediate
FS	Pan (4) Cis (1) Pan (6)		0.33 (0.17,0.48) 0.13 (-0.13, 0.39) 0.17 (0.05.0 28)	2.7e-03 0.33 3.7e-03	0.20	Intermediate
IL-18 IL-8	Cis (1) Pan (1) Cis (1)		0.23 (0.05,0.20) 0.60 (0.21,0.99) 0.60 (0.21,0.99)	0.01 2.6e-03 2.6e-03	1.00	Intermediate
TNF-R2 Primary biliary cirrhosis	Pan (5) Cis (1)		0.28 (0.10,0.47) -0.02 (-0.27, 0.23)	2.2e-03 0.88	0.06	Intermediate
TRANCE	Pan (4) C is (1) Pan (2)		-0.50 (-0.75,-0.24) -1.34 (-1.93,-0.75) 	1.4e-04 8.6e-06 3.3e-04	0.01 0.88	Strong
FS	UIS (1) Pan (3) Cis (1) Pan (1)		0.46 (0.24,1.66) 0.46 (0.15,0.77) 0.24 (-0.25, 0.73)	9.2e-03 4.1e-03 0.34	0.46	Intermediate
IL–8 RAGE	Pan (8) Cis (1) Cis (1) Cis (1)		0.61 (0.32,0.90) 0.72 (0.27,1.16)	∠.4e-03 2.4e-03 3.3e-05 1.6e-03	1.00 0.70	Intermediate
TIE2 TNF_R2	Pan (4) Cis (1) Pan (4) Cis (1)	→ →	-0.20 (-0.32,-0.09) -0.08 (-0.25, 0.09) 	5.1e–04 0.35 7.9e–08	0.25 0.11	Intermediate
Rheumatoid Arthritis	Pan (2)		0.27 (0.19,0.35)	6.5e-12	0.87	Strong
CD40 IL-1ra	Cis (1) Pan (3) Cis (1)		0.28 (0.20,0.36) -0.21 (-0.34,-0.08) -0.30 (-0.46,-0.15)	2.3e-12 1.4e-03 1.4e-04	0.37	Strong
IL–6RA ADM	Cis (1) Pan (4) Cis (1)		-0.08 (-0.11,-0.04) -0.08 (-0.11,-0.04) -0.27 (-0.45,-0.10) -0.19 (-0.50, 0.12)	0.0e-06 8.0e-06 2.1e-03 0.22	0.65	Intermediate
CCL3 CTSI 1	Pan (3) Cis (1) Pan (11) Cis (1)	÷.	0.15 (0.07,0.23) 0.12 (0.04,0.20) -0.28 (-0.40,-0.15) 0.00 (-0.34, 0.24)	1.8e-04 4.1e-03 1.1e-05	0.59 0.13	Intermediate
PAPPA	Pan (10) Cis (1)		0.15 (0.05,0.25) -0.11 (-0.70, 0.49)	1.00 3.3e–03 0.73	0.41	Intermediate
SLE CX3CL1	Pan (5) Cis (1)		0.87 (0.64,1.09) 0.56 (0.27,0.86)	3.4e-14 1.6e-04	0.10	Strong
NT-pro_BNP L OX-1	Pan (1) Cis (1) Pan (7) Cis (1)		-0.50 (-0.78,-0.22) -0.50 (-0.78,-0.22) -0.39 (-0.66,-0.12) -0.19 (-0.94, 0.56)	5.4e-04 5.4e-04 4.5e-03	1.00 0.62	Strong Intermediate
Breast cancer	Pan (1)		-0.49 (-0.75,-0.22)	3.1e-04	1.00	Strong
CASP-8 TNF-R2	Cis (1) Pan (5) Cis (1)		-0.49 (-0.75,-0.22) -0.31 (-0.49,-0.12) -0.14 (-0.40, 0.11)	3.1e-04 3.1e-04 1.4e-03 0.27	0.32	Intermediate
Prostate cancer	Pan (11) Cis (1)	-0-	0.12 (0.03,0.20) 0.30 (0.13 0.47)	7.3e-03	0.06	Strong
TRAIL-R2	Pan (3) Cis (1) Pan (3)		-0.14 (-0.21,-0.06) -0.16 (-0.24,-0.08) -0.13 (-0.21,-0.05)	2.7e-04 6.4e-05 1.4e-03	0.65 0.77	Strong
IL-1ra MMP-1	Cis (1) Pan (5) Cis (1)	- o -	-0.15 (-0.26,-0.04) -0.09 (-0.14,-0.03) -0.07 (-0.13, 0.00)	7.4e-03 2.8e-03 0.04	0.64	Intermediate
Alzheimer GDF–15	Pan (2) Cis (1)	-0-	0.18 (0.06,0.30) 0.19 (0.06,0.31)	4.4e-03 4.1e-03	0.94	Intermediate
Depressive symptoms	Pan (2) Cis (1)		-0.05 (-0.08,-0.02) -0.04 (-0.07, 0.00)	1.2e–03	0.57	Intermediate
SCF	Pan (12) Cis (1)	-0-	0.04 (0.02,0.06) 0.04 (-0.07, 0.16)	2.4e-04 0.45	0.95	Intermediate
HB-EGF	Pan (6) Cis (1) —	→	-0.13 (-0.21,-0.05) -0.47 (-1.22, 0.28)	9.0e-04 0.22	0.39	Intermediate
Schizophrenia EGF	Pan (1) Cis (1)		-0.31 (-0.50,-0.13) -0.31 (-0.50,-0.13)	9.9e-04 9.9e-04	1.00	Strong
RAGE CD40	Pan (11) Cis (1) Pan (2) Cis (1)		0.23 (0.14,0.33) 0.46 (0.27,0.65) -0.08 (-0.13,-0.03) -0.08 (-0.13,-0.03)	9.3e-07 1.9e-06 3.4e-03 3.2e-02	0.03 0.95	Strong Intermediate
NT-pro_BNP	Pan (1) Cis (1)	★ - ◆	-0.19 (-0.30,-0.07) -0.19 (-0.30,-0.07)	1.2e-03 1.2e-03	1.00	Intermediate
Dkk-1	Pan (5) Cis (1) Pan (6)		0.04 (0.01,0.06) 0.02 (-0.02, 0.06) 0.05 (0.02,0.07)	3.9e-03 0.36 4.65 0.1	0.49	Intermediate
HB–EGF TRANCE	Cis (1) Pan (7) Cis (1)	₀ -	0.03 (0.02,0.07) 0.04 (-0.03, 0.12) 0.03 (0.01,0.04) 0.02 (-0.03, 0.06)	4.0e-04 0.25 2.4e-03 0.52	0.94 0.63	Intermediate
Age at menopause	Pan (2) Cis (1)		0.05 (0.03,0.07) 0.05 (0.03,0.07)	8.6e-07	0.91	Strong
IV	- (' /	1.0 -0.5 0.0 0.5 1.0)			

Beta (95%CI)

P-value

BMI ADM [191]		- 0.27 (0.19,0.35) - 0.29 (0.14,0.43)	2e−10 1e−04
CCL20 [191] CCL3 [191]		0.17 (0.08,0.26) 0.04 (-0.11, 0.19) 0.19 (0.10,0.27) 0.20 (0.05,0.34)	1e-04 0.6 1e-05 0.008
CSF-1 [191] CSTB [191]		0.14 (0.05,0.34) 0.14 (-0.02, 0.30) 0.22 (0.15,0.30) 0.22 (0.09,0.35)	0.008 0.002 0.08 2e-08
CTSD [191] CX3CL1 [191]		0.14 (0.06,0.21) 0.14 (0.01,0.27) -0.15 (-0.24,-0.06) -0.15 (-0.29, 0.00)	4e-04 0.04 0.001 0.05
ESM-1 [191] FABP4 [191]		-0.22 (-0.34,-0.10) -0.23 (-0.45,-0.01) -0.40 (0.33,0.48) -0.40 (0.27,0.54)	3e-04 0.04 1e-25 8e-09
FAS [191] GAL [191]		- 0.40 (0.27,0.34) 0.21 (0.13,0.28) 0.21 (0.08,0.35) -0.28 (-0.40,-0.16) -0.48 (-0.68 -0.20)	8e-09 8e-08 0.002 6e-06
GDF-15 [191] HGE [191]		-0.48 (-0.68,-0.29) 0.20 (0.13,0.28) 0.16 (0.04,0.28) - 0.31 (0.22,0.40)	1e-06 1e-07 0.008 9e-12
hK11 [191]			1e-05 0.003 0.008 3e-13
IL-1ra [191] IL-6 [191]		0.27 (0.13,0.41) - 0.29 (0.20,0.39) - 0.21 (0.04,0.39) 0.19 (0.10,0.27)	1e-04 3e-09 0.01 1e-05
KIM-1 [191] KLK6 [191]		0.15 (0.01,0.30) -0.14 (-0.21,-0.06) -0.17 (-0.30,-0.04) 0.57 (0.40,0.65)	0.04 4e-04 0.008
LEP [191] MB [191]		- 0.37 (0.49,0.65) 0.66 (0.54,0.79) 0.18 (0.11,0.26) 0.23 (0.11,0.35) 0.45 (0.20,0.29)	7e-24 2e-06 2e-04
MPO [191] RAGE [191]		0.15 (0.08,0.23) 0.16 (0.03,0.29) -0.19 (-0.28,-0.11) -0.16 (-0.29,-0.02)	1e-04 0.02 8e-06 0.02
SCF [191] SELE [191]		-0.22 (-0.31,-0.14) -0.24 (-0.38,-0.09) 0.17 (0.09,0.25) 0.22 (0.09,0.36)	3e-07 0.001 1e-05 9e-04
t-PA [191] TNF-R1 [191]	+	0.16 (0.09,0.24) 0.18 (0.06,0.31) 0.18 (0.11,0.26)	3e-05 0.005 3e-06
TNF-R2 [191]	+	0.17 (0.03,0.30) 0.15 (0.07,0.23) 0.14 (0.01,0.26) 0.20 (0.11,0.29)	1e-04 0.03 3e-05
TRAIL-R2 [191]		- 0.29 (0.14,0.44) 0.19 (0.10,0.27) 0.21 (0.07,0.35) 0.15 (0.08,0.23)	1e−04 1e−05 0.004 7e−05
U=PAR [191] VEGF-A [191]		0.17 (0.04,0.31) 0.14 (0.05,0.23) 0.16 (0.00,0.31) -0.18 (-0.26 -0.10)	0.01 0.003 0.04 3e=05
VEGF-D [191] Body fat %		-0.17 (-0.32,-0.02)	0.02
ADM [10] FABP4 [10]		0.39 (0.29,0.87) 0.39 (0.29,0.82) 0.39 (0.21,0.57) 0.32 (0.07,0.57) 0.32 (0.14,0.50)	4e-05 2e-05 0.01
FAS [10] IL-1ra [10]		0.32 (0.14,0.50) 0.38 (0.13,0.64) 0.38 (0.18,0.58) 0.31 (0.04,0.58) 0.31 (0.04,0.58)	4e-04 0.003 2e-04 0.02
IL−6 [10] IL16 [10]		0.38 (0.15,0.60) 0.34 (0.02,0.65) 0.34 (0.14,0.54) 0.22 (-0.05, 0.49)	0.001 0.04 8e-04 0.1
LEP [10] RAGE [10]		0.81 (0.62,1.01) 0.73 (0.43,1.03) -0.30 (-0.50,-0.10) -0.30 (-0.57,-0.03)	9e-17 2e-06 0.003 0.03
REN [10] TNF-R1 [10]		0.35 (0.15,0.55) 0.47 (0.19,0.75) 0.28 (0.11,0.46) 0.21 (-0.04, 0.46)	5e-04 0.001 0.002 0.1
TRAIL [10] Waist-hip ratio		0.35 (0.13,0.57) 0.38 (0.09,0.67)	0.002 0.01
ADM [145]	 	-0.22 (-0.31,-0.14) -0.25 (-0.40,-0.11) 0.14 (0.06,0.22)	6e-07 8e-04 7e-04
CX3CL1 [145]		0.15 (0.02,0.28) -0.24 (-0.33,-0.15) -0.18 (-0.34,-0.01) -0.18 (-0.26,-0.11)	0.03 7e-07 0.04 3e-06
HGF [145]		-0.17 (-0.30,-0.04) 0.17 (0.08,0.27) - 0.24 (0.08,0.40) -0.18 (-0.27,-0.10)	0.009 3e-04 0.003 3e-05
LEP [145] PIGF [145]		-0.18 (-0.33,-0.02) 0.14 (0.05,0.23) - 0.22 (0.07,0.38) 0.16 (0.06 0.26)	0.02 0.002 0.004 0.002
PSGL-1 [145] REN [145]		0.13 (-0.04, 0.30) 0.19 (0.10,0.28) 0.32 (0.17,0.46) 0.13 (0.05 0.21)	0.1 4e-05 3e-05 0.001
SELE [145] t-PA [145]		0.11 (-0.03, 0.26) 0.14 (0.06,0.22) 0.03 (-0.10, 0.16) 0.19 (0.09, 0.29)	0.001 0.1 4e-04 0.6
TNFSF14 [145] HDL cholesterol			1e-04 1e-04
GAL [62] IL−1ra [62]		- 0.24 (0.16,0.33) 0.22 (0.08,0.35) -0.11 (-0.17,-0.05) -0.04 (-0.16, 0.08)	3e-08 0.002 6e-04 0.5
IL-27 [62] SCF [62]		0.10 (0.04,0.16) 0.12 (0.01,0.22) 0.25 (0.18,0.31) 0.34 (0.23,0.45)	0.001 0.03 5e-15 3e-09
TF [62] LDL cholesterol		0.17 (0.11,0.23) 0.19 (0.08,0.30)	8e-08 0.001
CX3CL1 [52] LEP [52]	+	-0.09 (-0.15, -0.04) -0.07 (-0.15, 0.02) -0.10 (-0.15, -0.05) -0.05 (-0.12, -0.02)	0.001 0.1 1e-04
PAR-1 [52]		-0.05 (-0.12, 0.03) -0.09 (-0.14,-0.04) -0.06 (-0.14, 0.03) -0.14 (-0.19,-0.10)	0.2 7e-04 0.2 2e-09
SELE [52]	+ + +	0.01 (-0.07, 0.08) -0.19 (-0.24,-0.15) 0.07 (-0.02, 0.15) -0.13 (-0.18 -0.08)	0.9 6e-16 0.1 6e-07
TF [52] Total cholesterol		-0.07 (-0.12 -0.00)	0.03
FAS [58] GAL [58]	* 	-0.07 (-0.12,-0.03) -0.07 (-0.14, 0.01) 0.12 (0.04,0.19) 0.03 (-0.08, 0.15)	0.002 0.07 0.003 0.6
IL−18 [58] IL−1ra [58]	+ + +	-0.10 (-0.15,-0.05) -0.11 (-0.19,-0.02) -0.09 (-0.15,-0.04) -0.14 (-0.22,-0.05)	∠e-04 0.02 8e-04 0.001
LEP [58] PAR-1 [58]	+	-0.09 (-0.14,-0.04) -0.07 (-0.15, 0.02) -0.11 (-0.16,-0.05) -0.06 (-0.15, 0.02)	9e-04 0.1 7e-05 0.2
PECAM-1 [58] SCF [58]	+ +	-0.15 (-0.19,-0.10) -0.04 (-0.11, 0.04) 0.11 (0.05,0.16) 0.12 (0.02.0.21)	9e−10 0.3 1e−04 0.02
SELE [58] t-PA [58]	* *	-0.02 (0.02,0.21) -0.17 (-0.22,-0.13) 0.07 (-0.01, 0.15) -0.08 (-0.12,-0.03) -0.07 (-0.14, 0.05)	4e-13 0.07 0.001
TNF-R1 [58]	+	-0.07 (-0.14, 0.00) -0.09 (-0.14,-0.04) -0.05 (-0.12, 0.03) -0.09 (-0.14,-0.05)	0.07 2e-04 0.2 7e-05
Triglycerides		-0.10 (-0.17,-0.03) 0.20 (0.13,0.27)	0.007 5e-09
AGRP [47] CA-125 [47]		0.17 (0.07,0.26) 0.16 (0.07,0.26) 0.08 (-0.06, 0.22) 0.11 (0.04,0.18)	5e-04 9e-04 0.2 0.002
CCL3 [47] CCL4 [47]		0.06 (-0.05, 0.16) 0.11 (0.04,0.18) 0.12 (0.02,0.23) 0.14 (0.08.0.20)	0.3 0.002 0.02 2e-06
CHI3L1 [47] CSF-1 [47]		0.00 (-0.11, 0.11) -0.22 (-0.29,-0.14) -0.22 (-0.34,-0.10) 0.10 (0.04, 0.16)	1 3e-09 3e-04
CTSD [47] CX3CL1 [47]	+	0.10 (0.04,0.16) 0.01 (-0.09, 0.10) -0.16 (-0.23,-0.09) -0.02 (-0.15, 0.11)	9e-04 0.9 1e-05 0.8
FS [47] Gal−3 [47]		0.24 (0.17,0.30) 0.07 (-0.07, 0.20) 0.17 (0.11,0.23) 0.07 (-0.03, 0.18)	2e−11 0.4 2e−08 0.2
KIM-1 [47] LEP [47]	+	0.18 (0.11,0.24) 0.06 (-0.04, 0.16) -0.16 (-0.22,-0.09) -0.09 (-0.20, 0.01)	2e-07 0.2 2e-06 0.08
OPG [45] TF [47]	+ +	0.22 (0.15, 0.29) 0.22 (0.15, 0.29) 0.19 (0.09, 0.28) -0.17 (-0.24, -0.11) -0.18 (-0.29, -0.07)	6e-10 2e-04 4e-07
TNF-R1 [47] TRAIL [47]	+	$\begin{array}{c} -0.16 (-0.23, -0.07) \\ -0.11 (-0.17, -0.05) \\ -0.14 (-0.23, -0.05) \\ -0.14 (-0.21, -0.07) \\ 0.14 (-0.21$	9e-04 3e-04 0.003 2e-04
U-PAR [47]	 	-0.14 (-0.26,-0.03) -0.10 (-0.16,-0.04) -0.12 (-0.20,-0.04)	0.01 7e-04 0.005
CTSL1 [7]		-0.24 (-0.37,-0.11) -0.17 (-0.35, 0.02) -0.17 (-0.29,-0.06)	3e−04 0.08 0.003
FAS [7] FGF-23 [7]		$\begin{array}{c} -0.11 \left(-0.27, 0.05\right) \\ -0.22 \left(-0.35, -0.09\right) \\ -0.26 \left(-0.42, -0.10\right) \\ -0.20 \left(-0.34, -0.07\right) \end{array}$	0.2 8e-04 0.002 0.002
PAPPA [7] TM [7]		-0.20 (-0.37,-0.03) -0.20 (-0.33,-0.07) -0.14 (-0.31, 0.04) -0.26 (-0.40 -0.12)	0.02 0.02 0.02 0.1
TRANCE [7] Fasting glucose		-0.26 (-0.40,-0.12) -0.24 (-0.42,-0.05)	2e-04 0.01
FS [16] MMP-10 [16]		-0.20 (-0.33,-0.07) -0.01 (-0.19, 0.18) - 0.21 (0.07,0.35) 0.12 (-0.07, 0.32)	0.003 0.9 0.003 0.2
TF [16] Fasting insulin		- 0.22 (0.09,0.35) - 0.19 (0.00,0.38)	6e-04 0.05
CHI3L1 [4] CTSL1 [4]		-1.11 (-1.48,-0.74) -0.25 (-0.86, 0.36) 0.75 (0.33,1.16) 0.62 (0.07 1 18)	3e-09 0.4 4e-04
FS [4]		-1.35 (-1.77,-0.92) -0.00 (-0.67, 0.66) -0.93 (-1.30,-0.56) -0.57 (-1.17, 0.92)	4e-10 1 9e-07
Gal-3 [4]			0.06
Gal−3 [4] LEP [4]	-	0.63 (0.23,1.04) 0.36 (-0.16, 0.88) -0.65 (-1.07,-0.24)	0.2 0.002
Gal-3 [4] LEP [4] SCF [4] HbA1C		0.63 (0.23, 1.04) 0.63 (0.23, 1.04) 0.36 (-0.16, 0.88) -0.65 (-1.07, -0.24) -0.63 (-1.23, -0.04) -0.27 (-0.43, -0.11)	0.2 0.002 0.04 9e-04
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34]		-0.27 (-0.43,-0.11) -0.30 (-0.41,-0.05) -0.27 (-0.43,-0.11) -0.28 (-0.51,-0.05) -0.30 (-0.41,-0.18) -0.19 (-0.37,-0.02)	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34]		-0.27 (-0.43,-0.11) -0.28 (-0.51,-0.05) -0.29 (-0.37,-0.24) -0.63 (-1.23,-0.04) -0.63 (-1.23,-0.04) -0.63 (-0.51,-0.05) -0.30 (-0.41,-0.18) -0.19 (-0.37,-0.02) -0.23 (-0.33,-0.14) -0.07 (-0.22, 0.08) 0.17 (0.06,0.28) 0.16 (-0.01, 0.32)	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.003 0.06
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes		$\begin{array}{c} 0.63 \ (0.23, 1.04) \\ 0.36 \ (-0.16, 0.88) \\ -0.65 \ (-1.07, -0.24) \\ -0.63 \ (-1.23, -0.04) \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118]		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.63 (-0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \end{array}$ $\begin{array}{c} -0.27 (-0.43, -0.11) \\ -0.63 (-1.23, -0.04) \\ \end{array}$ $\begin{array}{c} -0.27 (-0.43, -0.11) \\ -0.63 (-1.23, -0.04) \\ \end{array}$ $\begin{array}{c} -0.27 (-0.43, -0.11) \\ -0.63 (-1.23, -0.04) \\ \end{array}$ $\begin{array}{c} -0.23 (-0.33, -0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06, 0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50, -0.30) \\ -0.12 (-0.27, 0.04) \\ \end{array}$ $\begin{array}{c} 0.05 (0.03, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.04 (-0.01, 0.09) \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MMP-1 [118]		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.63 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \hline \\ 0.63 (-1.23, -0.04) \\ \hline \\ -0.63 (-1.23, -0.04) \\ \hline \\ -0.63 (-1.23, -0.04) \\ \hline \\ -0.63 (-0.51, -0.05) \\ -0.30 (-0.41, -0.18) \\ -0.19 (-0.37, -0.02) \\ -0.23 (-0.33, -0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06, 0.28) \\ 0.17 (0.06, 0.28) \\ 0.17 (0.06, 0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50, -0.30) \\ -0.12 (-0.27, 0.04) \\ \hline \\ \hline \\ 0.05 (0.03, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.02 (-0.03, 0.07) \\ \hline \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.02 0.06 7e-04 0.5
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MMP-1 [118] MPO [118] REN [118] SELE [118]		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.63 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \hline \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.4
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MPO [118] MPO [118] REN [118] SELE [118] Heart rate ADM [12]		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \hline \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 2e-04 0.4
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MPO [118] MPO [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \end{array}$ $\begin{array}{c} -0.27 (-0.43, -0.11) \\ -0.63 (-1.23, -0.04) \\ \end{array}$ $\begin{array}{c} -0.27 (-0.43, -0.11) \\ -0.63 (-1.23, -0.04) \\ \end{array}$ $\begin{array}{c} -0.28 (-0.51, -0.05) \\ -0.30 (-0.41, -0.18) \\ -0.19 (-0.37, -0.02) \\ -0.23 (-0.33, -0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06, 0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50, -0.30) \\ -0.12 (-0.27, 0.04) \\ \end{array}$ $\begin{array}{c} 0.05 (0.03, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.04 (-0.01, 0.09) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.06 (0.00, 0.11) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.06) \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 7e-04 0.4 0.5 0.002 0.4 7e-04 0.4 0.4 7e-04 0.4 0.5 0.002 0.4 7e-04 0.4 0.4 0.5 0.002 0.4 7e-04 0.4 0.4 0.5 0.002 0.4 7e-04 0.4 0.4 0.5 0.4 0.4 0.4 0.5 0.002 0.4 7e-04 0.4 0.5 0.002 0.4 7e-04 0.4 0.5 0.002 0.4 7e-04 0.4 0.5 0.002 0.4 7e-04 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.4 0.4 0.4 0.5 0.002 0.02 0.4 0.4 0.5 0.002 0.02 0.4 0.4 0.5 0.002 0.5 0.002 0.4 0.5 0.002 0.4 0.4 0.5 0.002 0.5 0.002 0.5 0.002 0.5 0.002 0.5 0.002 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] CTSD [118] GDF-15 [118] MPO [118] MPO [118] REN [118] SELE [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke CCL3 [9] CTSD [9]		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \hline \\ 0.63 (-1.23, -0.04) \\ \hline \\ 0.05 (-0.41, -0.18) \\ -0.19 (-0.37, -0.02) \\ -0.23 (-0.33, -0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06, 0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50, -0.30) \\ -0.12 (-0.27, 0.04) \\ \hline \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.02, 0.06) \\ \hline \\ \hline \\ \begin{array}{c} 0.20 (0.09, 0.31) \\ 0.07 (-0.10, 0.24) \\ 0.15 (0.05, 0.25) \\ 0.11 (-0.03, 0.26) \\ 0.17 (0.06, 0.27) \\ \hline \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.4 2e-04 0.4 0.02
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [118] MMP-1 [118] REN [118] SELE [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke CCL3 [9] CTSD [9] CTSL1 [9] CXCL16 [9]		$\begin{array}{c c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \hline \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.02 0.06 7e-04 0.5 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.4 2e-04 0.4 2e-04 0.4 0.02 0.02 0.4 7e-04 0.4 0.02 0.02 0.4 7e-04 0.4 0.02 0.02 0.4 7e-04 0.4 0.02 0.02 0.02 0.4 7e-04 0.4 0.02 0.02 0.4 7e-04 0.4 0.02 0.02 0.4 7e-04 0.4 0.02 0.02 0.4 7e-04 0.4 0.02 0.02 0.4 0.4 0.02 0.02 0.4 0.4 0.02 0.02 0.4 0.4 0.02 0.02 0.4 0.4 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.4 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.4 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.5 0.002 0.4 0.4 0.02 0.02 0.02 0.4 0.5 0.02 0.02 0.4 0.4 0.02 0.02 0.02 0.4 0.5 0.02 0.4 0.5 0.02 0.02 0.4 0.5 0.02 0.02 0.02 0.4 0.5 0.02 0.02 0.4 0.5 0.02 0.02 0.4 0.5 0.02 0.02 0.4 0.5 0.02 0.02 0.4 0.5 0.02 0.02 0.4 0.02 0.01 0.7 6e-10
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MMP-1 [118] MPO [118] REN [118] SELE [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke CCL3 [9] CTSD [9] CTSL1 [9] CXCL16 [9] IL-27 [9] MMP-1 [9]		$\begin{array}{c cccc} 0.63 & (0.23, 1.04) \\ 0.36 & (-0.16, 0.88) \\ -0.65 & (-1.07, -0.24) \\ -0.63 & (-1.23, -0.04) \\ \hline \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 2e-04 0.4 2e-04 0.4 0.2 3e-04 0.4 0.2 0.03 0.003 0.
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MPO [118] MPO [118] REN [118] SELE [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke CCL3 [9] CTSD [9] CTSL1 [9] CXCL16 [9] IL-27 [9] MMP-1 [9] MMP-1 [9]		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \hline \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.05 5e-04 0.1 0.02 0.06 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 0.2 3e-04 0.4 0.2 0.4 7e-04 0.4 0.02 0.4 7e-04 0.4 0.02 0.4 7e-04 0.4 0.02 0.03 0.005 0.003 0.005 0.002 0.4 0.4 0.05 0.002 0.4 0.4 0.05 0.002 0.4 0.4 0.05 0.002 0.4 0.4 0.05 0.002 0.4 0.4 0.05 0.002 0.4 0.4 0.5 0.003 0.003 0.005 0.003 0.005 0.003 0.005 0.003 0.005 0.003 0.005 0.003 0.005 0.003 0.005 0.003 0.005 0.003 0.005 0.001 0.7 6e-10 0.003 0
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SELE [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MPO [118] REN [118] SELE [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke CCL3 [9] CTSD [9] CTSD [9] CTSL1 [9] CXCL16 [9] IL-27 [9] MMP-1 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] SELE [9]		$\begin{array}{c} 0.63 \ (0.23, 1.04) \\ 0.36 \ (-0.16, 0.88) \\ -0.65 \ (-1.07, -0.24) \\ -0.63 \ (-1.23, -0.04) \\ \hline \\ \end{array}$	$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ \end{array}$
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [118] MMP-1 [118] SELE [118] MMP-1 [118] SELE [118] MPO [118] SELE [118] MPO [118] SELE [118] CTSD [9] CTSL1 [9] CTSL1 [9] CXCL16 [9] IL-27 [9] MMP-12 [9] MMP-12 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] SELE [9] TF [9]		$\begin{array}{c} 0.63 (0.23,1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07,-0.24) \\ -0.63 (-1.23,-0.04) \\ \end{array} \\ \begin{array}{c} 0.05 (-0.41,-0.18) \\ -0.19 (-0.37,-0.02) \\ -0.23 (-0.33,-0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06,0.28) \\ 0.17 (0.06,0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50,-0.30) \\ -0.12 (-0.27, 0.04) \\ \end{array} \\ \begin{array}{c} 0.05 (0.03,0.08) \\ 0.05 (0.02,0.07) \\ 0.04 (-0.01, 0.09) \\ 0.05 (0.02,0.07) \\ 0.04 (-0.01, 0.09) \\ 0.05 (0.02,0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02,0.07) \\ 0.02 (-0.02, 0.06) \\ \end{array} \\ \begin{array}{c} 0.20 (0.09,0.31) \\ 0.07 (-0.10, 0.24) \\ 0.15 (0.05,0.25) \\ 0.11 (-0.03, 0.26) \\ 0.17 (0.06,0.27) \\ 0.19 (0.06,0.33) \\ -0.16 (-0.26,-0.06) \\ -0.02 (-0.18, 0.13) \\ 0.34 (0.23,0.45) \\ 0.39 (0.29,0.49) \\ 0.07 (-0.08, 0.23) \\ -0.68 (-0.78,-0.58) \\ -0.01 (-0.15, 0.14) \\ -1.41 (-1.51,-1.32) \\ 0.10 (-0.04, 0.23) \\ -0.24 (0.13,0.34) \\ 0.09 (-0.05, 0.23) \\ \end{array}$	$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ \end{array}$
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MPO [118] MPO [118] REN [118] SELE [118] MPO [118] SELE [118] REN [118] SELE [118] MPO [118] CTSD [9] CTSD [9] CTSL1 [9] CTSL1 [9] IL-27 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] SELE [9] TF [9] TNF-R2 [9]		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \end{array} \\ \\ \begin{array}{c} 0.27 (-0.43, -0.11) \\ -0.28 (-0.51, -0.05) \\ -0.30 (-0.41, -0.18) \\ -0.19 (-0.37, -0.02) \\ -0.23 (-0.33, -0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06, 0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50, -0.30) \\ -0.12 (-0.27, 0.04) \\ \end{array} \\ \\ \begin{array}{c} 0.05 (0.03, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.06 (0.00, 0.11) \\ 0.05 (0.02, 0.08) \\ 0.06 (0.00, 0.11) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (-0.13, 0.26) \\ 0.11 (-0.3, 0.26) \\ 0.01 (-0.18, 0.13) \\ 0.03 (0.29, 0.49) \\ 0.05 (-0.13, 0.22) \\ -0.79 (-0.89, -0.68) \\ -0.01 (-0.18, 0.15) \\ 0.39 (0.29, 0.49) \\ 0.07 (-0.08, 0.23) \\ -0.68 (-0.78, -0.58) \\ -0.01 (-0.15, 0.14) \\ -1.41 (-1.51, -1.32) \\ 0.10 (-0.04, 0.23) \\ -0.24 (0.13, 0.34) \\ 0.09 (-0.05, 0.23) \\ -0.24 (0.13, 0.34) \\ 0.09 (-0.05, 0.23) \\ 0.13 (-0.06, 0.31) \\ \end{array}$	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.02 0.06 7e-04 0.1 0.02 0.06 7e-04 0.1 0.02 0.06 7e-04 0.1 0.02 0.06 7e-04 0.1 0.002 0.06 7e-04 0.1 0.002 0.4 7e-04 0.4 0.2 3e-04 0.4 0.003
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MPO [118] MPO [118] REN [118] SELE [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke CCL3 [9] CTSD [9] CTSL1 [9] CXCL16 [9] IL-27 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] SELE [9] TF [9] TNF-R2 [9] TRANCE [9] All stroke		$\begin{array}{c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \end{array} \\ \\ \begin{array}{c} 0.27 (-0.43, -0.11) \\ -0.28 (-0.51, -0.05) \\ -0.30 (-0.41, -0.18) \\ -0.19 (-0.37, -0.02) \\ -0.23 (-0.33, -0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06, 0.28) \\ 0.17 (0.06, 0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50, -0.30) \\ -0.40 (-0.50, -0.30) \\ -0.12 (-0.27, 0.04) \\ \end{array} \\ \\ \begin{array}{c} 0.05 (0.03, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.01 (-0.16, -0.19) \\ -0.35 (-0.64, -0.07) \\ \end{array} \\ \begin{array}{c} 0.20 (0.09, 0.31) \\ 0.07 (-0.10, 0.24) \\ 0.15 (0.05, 0.25) \\ 0.11 (-0.03, 0.26) \\ 0.17 (0.06, 0.27) \\ 0.19 (0.06, 0.33) \\ -0.16 (-0.26, -0.06) \\ -0.02 (-0.18, 0.13) \\ 0.34 (0.23, 0.45) \\ 0.04 (-0.35, -0.14) \\ -0.02 (-0.13, 0.22) \\ -0.79 (-0.89, -0.68) \\ -0.01 (-0.15, 0.14) \\ -1.41 (-1.51, -1.32) \\ 0.10 (-0.44, 0.23) \\ -0.24 (0.33, 0.43) \\ 0.09 (-0.05, 0.23) \\ -0.68 (-0.78, -0.58) \\ -0.01 (-0.15, 0.14) \\ -1.41 (-1.51, -1.32) \\ 0.10 (-0.44, 0.23) \\ -0.24 (-0.35, -0.14) \\ -0.24 (0.13, 0.34) \\ 0.09 (-0.05, 0.23) \\ 0.16 (0.07, 0.26) \\ 0.01 (-0.14, 0.15) \\ 0.21 (0.09, 0.32) \\ 0.13 (-0.06, 0.31) \\ \end{array} $	$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ \end{array}$
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MP-1 [118] MP-1 [118] MP-1 [118] REN [118] SELE [118] Heart rate ADM [12] Ischemic stroke CCL3 [9] CTSD [9] CTSL [9] IL-27 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] TM [9] TMF-R2 [9] TM [9] TMF-R2 [9] TMNCE [9] CXCL16 [8] IL-27 [8]		$\begin{array}{c c} 0.63 (0.23, 1.04) \\ 0.36 (-0.16, 0.88) \\ -0.65 (-1.07, -0.24) \\ -0.63 (-1.23, -0.04) \\ \end{array} \\ \begin{array}{c c} 0.27 (-0.43, -0.11) \\ -0.63 (-1.23, -0.05) \\ -0.30 (-0.41, -0.18) \\ -0.19 (-0.37, -0.02) \\ -0.23 (-0.33, -0.14) \\ -0.07 (-0.22, 0.08) \\ 0.17 (0.06, 0.28) \\ 0.16 (-0.01, 0.32) \\ -0.40 (-0.50, -0.30) \\ -0.12 (-0.27, 0.04) \\ \end{array} \\ \begin{array}{c c} 0.05 (0.03, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.05 (0.02, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.05 (0.02, 0.08) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.07) \\ 0.02 (-0.03, 0.25) \\ 0.11 (-0.03, 0.26) \\ 0.11 (-0.03, 0.26) \\ 0.01 (-0.18, 0.15) \\ 0.24 (0.03, 0.40) \\ 0.18 (0.06, 0.29) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.05 (-0.13, 0.22) \\ 0.01 (-0.14, 0.15) \\ 0.24 (0.13, 0.41) \\ 0.09 (-0.5, 0.23) \\ 0.16 (0.07, 0.26) \\ 0.01 (-0.14, 0.15) \\ 0.21 (0.09, 0.31) \\ \end{array}$	$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ \end{array}$
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] GDF-15 [118] GDF-15 [118] MPO [118] GDF-15 [118] MPO [118] REN [118] SELE [118] BELE [118] REN [118] SELE [118] MPO [118] CCL3 [9] CTSL1 [9] CTSL1 [9] CTSL1 [9] CTSL1 [9] CTSL1 [9] CTSL1 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] MMP-3 [9] PECAM-1 [9] SELE [9] TM [9] TNF-R2 [9] TM [9] TNF-R2 [9] TM [9] TNF-R2 [9] MMP-18] MMP-1 [8] MMP-1 [8]		0.63 (0.23, 1.04) 0.63 (0.23, 1.04) 0.63 (-0.16, 0.88) -0.65 (-1.07, -0.24) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.28 (-0.51, -0.05) -0.30 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.04 (-0.01, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.02, 0.06) -0.40 (-0.61, -0.19) -0.35 (-0.64, -0.07) 0.02 (-0.18, 0.13) -0.16 (-0.26, -0.06) -0.02 (-0.18, 0.13) -0.16 (-0.26, -0.06) -0.02 (-0.18, 0.13) -0.16 (-0.28, -0.68) -0.01 (-0.18, 0.15) -0.39 (0.29, 0.49) 0.05 (-0.13, 0.22) -0.79 (-0.89, -0.68) -0.01 (-0.18, 0.15) -0.24 (0.08, 0.40) 0.18 (0.06, 0.29) 0.05 (-0.13, 0.22) -0.79 (-0.89, -0.68) -0.01 (-0.15, 0.14) -1.41 (-1.51, -1.32) 0.10 (-0.04, 0.23) -0.24 (-0.35, -0.14) -0.02 (-0.17, 0.14) 0.99 (-0.05, 0.23) -0.68 (-0.78, -0.58) -0.01 (-0.15, 0.18) -0.01 (-0.15, 0.14) -1.41 (-0.15, 0.18) -0.22 (0.09, 0.32) 0.13 (-0.06, 0.31) -0.22 (0.09, 0.32) 0.13 (-0.06, 0.31) -0.22 (0.09, 0.27) -0.88 (-1.00, -0.76) 0.03 (-0.15, 0.21) -0.52 (0.41, 0.63) -0.11 (-0.05, 0.26) -0.11 (-0.05, 0.26) -0.11 (-0.05, 0.26) -0.03 (-0.15, 0.21) -0.52 (0.41, 0.63) -0.52 (0.41, 0.63) -0.	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.4 0.2 2e-04 0.4 0.03 0.003
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [118] MMP-1 [118] MPO [118] REN [118] SELE [118] REN [118] SELE [118] MPO [118] REN [118] SELE [118] MPO [118] CCCJ 3 [9] CTSD [9] CTSD [9] CTSL1 [9] MMP-1 [9] MMP-3 [9] MMP-3 [9] PECAM-1 [9] MMP-3 [9] TM [9] TMF-R2 [9] TM [9] TMF-R2 [9] TM [9] TMF-R2 [9] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-3 [8] PAPPA [8]		$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 0.2 3e-04 0.4 0.03 0.0
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [18] MMP-1 [18] MMP-1 [18] SELE [118] BELE [118] SELE [118] MMP-1 [18] CCL3 [9] CTSL [9] CTSL [9] CTSL [9] MMP-12 [9] MMP-12 [9] MMP-3 [8] PECAM-1 [9] TIF [9] SELE [9] TIF [9] TIF [9] TIF [9] CXCL16 [8] IL-27 [8] MMP-12 [8] MMP-13 [8] PAPPA [8] RETN [8] COronary heart disease		0.63 (0.23, 1.04) 0.63 (0.23, 1.04) 0.63 (-0.16, 0.88) -0.65 (-1.07, -0.24) -0.63 (-1.23, -0.04) 0.03 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.22 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.04 (-0.01, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07)	$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ \end{array}$
Gal-3 [4] LEP [4] SCF [4] BAPA [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [118] MMP-1 [118] MMP-1 [118] MMP-1 [118] SELE [118] REN [118] SELE [118] Heart rate ADM [12] SELE [118] CCL3 [9] CTSL1 [9] CTSL1 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] SELE [9] TF [9] TM [9] SELE [9] TM [9] TMF-R2 [9] TMF-R2 [9] TMS-R2 [9] CXCL16 [8] IL-27 [8] MMP-12 [8] MMP-12 [8] MMP-12 [8] MMP-12 [8] MMP-3 [8] PAPPA [8] PAPPA [8] PAPPA [39]		0.03 (0.23, 1.04) 0.63 (0.23, 1.04) 0.63 (0.23, 1.04) 0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.28 (-0.51, -0.05) -0.30 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.02, 0.07) 0.04 (-0.01, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (-0.13, 0.17) 0.15 (0.05, 0.25) 0.11 (-0.03, 0.26) 0.17 (0.06, 0.27) 0.19 (0.06, 0.33) -0.16 (-0.26, -0.06) -0.02 (-0.18, 0.13) 0.34 (0.23, 0.45) 0.03 (-0.18, 0.13) 0.39 (0.29, 0.49) 0.07 (-0.18, 0.13) -0.24 (-0.18, 0.13) -0.24 (-0.18, 0.13) -0.24 (-0.35, -0.14) -0.24 (-0.35, -0.14) -0.26 (0.09, 0.31) -0.26 (0.09, 0.31) -0.27 (-0.08, 0.23) -0.17 (-0.16, 0.28) 0.11 (-0.05, 0.28) 0.13 (-0.06, 0.29) 0.17 (-0.06, 0	$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ 0.02\\ 0.03\\ 0.03\\ 2e-06\\ 0.3\\ 0.03\\ 0.06\\ 5e-16\\ 0.1\\ 0.05\\ 5e-16\\ 0.1\\ 0.05\\ 5e-04\\ 0.1\\ 0.002\\ 0.06\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.4\\ 0.03\\ 0.003\\ 0$
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [18] MMP-1 [18] REN [118] SELE [118] MMP-1 [18] REN [118] SELE [118] MMP-1 [19] CCL3 [9] CTSL1 [9] CTSL1 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] MMP-3 [9] TF [9] TM [9] SELE [9] TF [9] MMP-3 [9] PECAM-1 [9] MMP-3 [9] TNF-R2 [9] TM [9] CXCL16 [8] MMP-12 [8] MMP-13 [8] PAPA [8] PAPA [8] PAPA [8] PAPA [8] PAPA [8] PAPA [8] PAPA [13] PARA [1		0.03 (0.23, 1.04) 0.03 (0.23, 1.04) 0.03 (0.23, 1.04) 0.05 (-1.07, -0.24) -0.63 (-1.23, -0.04) 0.05 (-0.23, -0.05) -0.30 (-0.41, -0.18) 0.017 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.02, 0.07) 0.04 (-0.01, 0.09) 0.05 (0.02, 0.07) 0.04 (-0.01, 0.09) 0.05 (0.02, 0.08) 0.06 (0.00, 0.11) 0.05 (0.02, 0.08) 0.06 (0.00, 0.11) 0.05 (0.02, 0.08) 0.06 (0.00, 0.11) 0.05 (0.02, 0.08) 0.06 (0.00, 0.11) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.03 (0.02, 0.06) -0.02 (-0.10, 0.24) 0.15 (0.05, 0.25) 0.11 (-0.03, 0.26) 0.17 (0.06, 0.27) 0.19 (0.06, 0.33) -0.16 (-0.26, -0.06) -0.02 (-0.18, 0.13) -0.39 (0.29, 0.49) 0.07 (-0.18, 0.13) -0.39 (0.29, 0.49) 0.07 (-0.18, 0.23) -0.68 (-0.78, -0.58) -0.01 (-0.15, 0.14) -0.24 (0.03, 0.4) 0.03 (-0.24, 0.03) -0.24 (0.03, 0.4) 0.03 (-0.15, 0.14) -0.24 (0.13, 0.34) 0.09 (-0.05, 0.23) 0.01 (-0.15, 0.14) -0.24 (0.13, 0.34) 0.09 (-0.05, 0.23) -0.21 (0.09, 0.32) 0.13 (-0.06, 0.31) -0.22 (0.09, 0.35) 0.03 (-0.15, 0.21) 0.34 (0.22, 0.46) 0.22 (0.09, 0.35) 0.03 (-0.15, 0.21) -0.22 (-0.08, 0.04) -0.22 (-0.08, 0.04) -0.25 (-0.29, 0.21) -0.25 (-0.29, 0.21) -0.25 (-0.29, 0.21)	$ \begin{array}{c} 0.2 \\ 0.002 \\ 0.04 \\ \end{array} \begin{array}{c} 9e-04 \\ 0.02 \\ 3e-07 \\ 0.03 \\ 2e-06 \\ 0.3 \\ 0.003 \\ 0.06 \\ 5e-16 \\ 0.1 \\ \end{array} \begin{array}{c} 1e-04 \\ 0.05 \\ 5e-04 \\ 0.1 \\ 0.002 \\ 0.06 \\ 7e-04 \\ 0.5 \\ 0.002 \\ 0.4 \\ 7e-04 \\ 0.5 \\ 0.002 \\ 0.4 \\ 7e-04 \\ 0.4 \\ 0.03 \\ 0.03 \\ 0.01 \\ 0.7 \\ 6e-10 \\ 0.003 \\ 0.001 \\ 0.7 \\ 6e-10 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.003 \\ 0.001 \\ 0.7 \\ 6e-10 \\ 0.003 \\ 0.001 \\ 0.7 \\ 6e-10 \\ 0.003 \\ $
Gal-3 [4] LEP [4] SCF [4] SCF [4] PAPPA [34] PECAM-1 [34] SELE [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MP-1 [18] MP-1 [18] MP-1 [18] REN [118] SELE [118] REN [118] SELE [118] CCL3 [9] CTSD [9] CTSD [9] CTSL [9] CTSL [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] SELE [9] TF [9] TM [9] TNF-R2 [9] MMP-3 [9] PECAM-1 [9] MMP-3 [8] MMP-3 [8] MMP-12 [8] MMP-12 [8] MMP-12 [8] MMP-12 [8] MMP-3 [8] PAPPA [8] PAPPA [8] PAPPA [8] PAPPA [3] PAPPA [0.03 (0.23, 1.04) 0.36 (-0.16, 0.88) -0.63 (-1.23, -0.04) -0.03 (-1.23, -0.04) -0.03 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.02, 0.07) 0.04 (-0.01, 0.09) 0.05 (0.02, 0.07) 0.04 (-0.01, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.02, 0.06) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) <tr< td=""><td>$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ 0.02\\ 0.03\\ 0.03\\ 2e-06\\ 0.3\\ 0.03\\ 2e-06\\ 0.3\\ 0.03\\ 0.06\\ 5e-16\\ 0.1\\ 0.05\\ 5e-04\\ 0.1\\ 0.002\\ 0.06\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.4\\ 0.003\\$</td></tr<>	$\begin{array}{c} 0.2\\ 0.002\\ 0.04\\ 0.02\\ 0.03\\ 0.03\\ 2e-06\\ 0.3\\ 0.03\\ 2e-06\\ 0.3\\ 0.03\\ 0.06\\ 5e-16\\ 0.1\\ 0.05\\ 5e-04\\ 0.1\\ 0.002\\ 0.06\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.5\\ 0.002\\ 0.4\\ 7e-04\\ 0.4\\ 0.003\\ $
Gal-3 [4] LEP [4] SCF [4] FBAATC ESM-1 [34] PAPPA [34] PECAM-1 [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [118] MMP-1 [118] MMP-1 [118] SELE [118] REN [118] SELE [118] REN [118] SELE [118] GDF-15 [118] MMP-1 [18] SELE [118] CCCJ [18] CCCJ [19] CTSL [19] CTSL [19] CTSL [19] CTSL [19] MMP-1 [29] MMP-1 [20] MMP-3 [30] PECAM-1 [30] MMP-3 [8] MMP-3 [8] MMP-3 [8] MMP-3 [8] PAPPA [8] MMP-3 [8] PAPPA [8] PAPPA [8] PAPPA [30] PECAM-1 [30] PE		0.03 (0.23, 1.04) 0.03 (0.23, 1.04) 0.03 (0.11, 0.05) 0.03 (-1.23, -0.04) 0.03 (-1.23, -0.04) 0.03 (-0.41, -0.18) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.08, 0.03) 0.02 (-0.08, 0.07) 0.02 (-0.08, 0.07) 0.02 (-0.08, 0.03) 0	0.2 0.002 0.04 9e-04 0.02 3e-07 0.03 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.4 0.2 3e-04 0.4 0.003
Gal-3 [4] LEP [4] SCF [4] FBAATC ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MP-1 [118] MP-1 [118] MP-1 [118] MP-1 [118] SELE [118] MP-1 [18] SELE [118] Heart rate ADM [12] SELE [118] CCC1 [0] CTSL [0] CTSL [0] CTSL [0] CTSL [0] CTSL [0] MMP-1 [2] MMP-3 [0] PECAM-1 [0] MMP-3 [0] TNF-R2 [0] TNF-R2 [0] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-3 [8] PAPPA [8] MMP-3 [8] PAPPA [30] PAPPA [30]		0.03 (0.23, 1.04) 0.03 (0.23, 1.04) 0.03 (0.11, 0.18) -0.63 (-1.23, -0.04) 0.05 (0.11, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0	
Gal-3 [4] LEP [4] SCF [34] PAPPA [34] PECAM-1 [34] PECAM-1 [34] SCF [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MPO [118] GDF-15 [118] MPO [118] SELE [118] MEAT tate ADM [12] SELE [118] MMP-1 [29] MMP-1 [29] MMP-3 [8] SELE [90] TNF-R2 [9] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-3 [8] PAPPA [8] PAPPA [8] PAPPA [8]		0.03 (0.23, 1.04) 0.36 (-0.16, 0.88) -0.65 (-1.07, -0.24) -0.63 (-1.23, -0.04) -0.27 (-0.43, -0.11) -0.28 (-0.51, -0.05) -0.30 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.10, 0.24) 0.15 (0.05, 0.25) 0.11 (-0.03, 0.26) 0.17 (0.60, 0.27) 0.18 (0.60, 0.33) -0.26 (-0.18, 0.13) 0.27 (0.09, 0.31) 0.16 (-0.26, -0.06) 0.07 (-0.18, 0.13)	0.20.0020.049e-040.023e-070.032e-060.30.0030.065e-160.10.055e-040.10.0020.47e-040.50.0020.47e-040.40.030.010.76e-100.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0030.0040.020.030.030.030.040.20.010.020.020.030.030.040.020.020.030.030.074e-040.20.020.030.074e-110.54e-050.10.0010.010.010.021e-050.021e-050.021e-050.021e-050.021e-050.021e-050.021e-05 <t< td=""></t<>
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MMP-1 [13] MPO [118] SELE [118] MPO [118] SELE [118] MPO [118] SELE [118] BEAM TATE ADM [12] SELE [118] MPO [118] SELE [118] MPO [118] SELE [118] BEAM TATE ADM [12] SELE [18] ICTSL [19] CXCL16 [8] IL-27 [8] MMP-12 [9] TMF-R2 [9] TMF-R2 [9] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-1 [8] MMP-1 [8] PAPPA [8] PAPPA [8] PAPPA [8] PAR-1 [39] PAR-1 [39]		0.03 (0.23, 1.04) 0.36 (-0.16, 0.88) -0.63 (-1.23, -0.04) 0.031 (-0.43, -0.01) -0.28 (-0.51, -0.05) -0.30 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.27 (-0.43, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.27, 0.04) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) <t< td=""><td>0.2 0.002 0.04 9e-04 0.02 3e-07 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.9 4e-47 0.9 3e-15 0.3 0.4 0.2 0.001 0.9 4e-04 0.2 0.001</td></t<>	0.2 0.002 0.04 9e-04 0.02 3e-07 2e-06 0.3 0.003 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.1 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.9 4e-47 0.9 3e-15 0.3 0.4 0.2 0.001 0.9 4e-04 0.2 0.001
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MPO [118] SELE [118] MPO [118] SELE [118] MPO [118] SELE [118] GC13 [9] CC13 [9] CTSD [11] MPO [118] SELE [118] SELE [118] SELE [118] GC13 [9] CTSD [9] CTSD [11] MPO [118] SELE [118] MPO [118] SELE [118] MPO [12] MMP-1 [18] MMP-1 [19] MMP-3 [9] TF [9] MMP-1 [18] MMP-1 [28] MMP-3 [8] PAPAR [8] MMP-3 [8] MMP-3 [8] MMP-3 [8] MMP-1 [8] MMP-3 [8]		$\begin{array}{c} 0.03 \ (0.23, 1.04) \\ 0.36 \ (-0.16, 0.88) \\ -0.65 \ (-1.07, -0.24) \\ -0.63 \ (-1.23, -0.04) \\ \end{array} \\ \hline \\ 0.07 \ (-0.23, -0.01) \\ -0.23 \ (-0.41, -0.18) \\ -0.19 \ (-0.37, -0.02) \\ -0.23 \ (-0.37, -0.02) \\ -0.23 \ (-0.37, -0.02) \\ -0.23 \ (-0.37, -0.02) \\ -0.23 \ (-0.37, -0.02) \\ -0.23 \ (-0.37, -0.02) \\ -0.40 \ (-0.01, 0.32) \\ -0.40 \ (-0.50, -0.30) \\ -0.12 \ (-0.27, 0.04) \\ -0.12 \ (-0.27, 0.04) \\ -0.12 \ (-0.27, 0.04) \\ -0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (0.02, 0.07) \\ 0.05 \ (-0.03, 0.07) \\ 0.05 \ (-0.03, 0.07) \\ 0.05 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.07) \\ 0.02 \ (-0.03, 0.03) \\ -0.11 \ (-0.03, 0.25) \\ 0.011 \ (-0.18, 0.13) \\ -0.02 \ (-0.38, 0.04) \\ -0.02 \ (-0.31, 0.04) \\ -0.02 \ (-0$	
Gal-3 [4] LEP [4] SCF [4] PAPPA [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] SELE [34] SELE [34] GDF-15 [118] GDF-15 [118] MPO [118] REN [118] SELE [118] MPO [118] SELE [118] IL-27 [8] MMP-12 [9] MMP-12 [9] TMF-R2 [9] TMF-R2 [9] TMRP-3 [8] MMP-12 [8] MMP-12 [8] MMP-13 [8] PAPAR [8] PAPA [8] PAPAR [8] PAR-1 [39] </td <td></td> <td>0.03 (0.23, 1.04) 0.36 (-0.16, 0.88) 0.63 (-1.23, -0.04) 0.63 (-1.23, -0.04) 0.27 (-0.43, -0.11) 0.28 (-0.51, -0.05) 0.30 (-0.41, -0.18) 0.17 (-0.62, 2.08) 0.17 (0.06, 0.28) 0.16 (-0.10, 0.32) -0.07 (-0.22, 0.08) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.10, 0.24) 0.15 (0.05, 0.25) 0.11 (-0.03, 0.26) 0.17 (0.06, 0.27) 0.18 (0.06, 0.29) 0.05 (-0.13, 0.22) 0.07 (-0.18, 0.13) 0.22 (0.09, 0.31) 0.17 (-0.18, 0.15) 0.17 (-0.18, 0.15) 0.17 (-0.18, 0.15) 0.17 (-0.18, 0.15) <</td> <td>0.20.0020.049e-040.023e-070.032e-060.30.0030.065e-160.10.055e-040.10.0020.67e-040.50.0020.47e-040.50.0020.47e-040.50.0020.47e-040.50.0030.0030.0030.0010.76e-100.0030.0010.76e-100.0030.0010.76e-100.0030.0030.0040.0050.0010.010.020.020.038e-060.82e-050.20.010.020.020.030.043e-089e-050.010.020.020.030.020.043e-050.010.020.020.030.030.043e-050.050.060.070.070.080.090.090.090.010.020.020.03</td>		0.03 (0.23, 1.04) 0.36 (-0.16, 0.88) 0.63 (-1.23, -0.04) 0.63 (-1.23, -0.04) 0.27 (-0.43, -0.11) 0.28 (-0.51, -0.05) 0.30 (-0.41, -0.18) 0.17 (-0.62, 2.08) 0.17 (0.06, 0.28) 0.16 (-0.10, 0.32) -0.07 (-0.22, 0.08) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.10, 0.24) 0.15 (0.05, 0.25) 0.11 (-0.03, 0.26) 0.17 (0.06, 0.27) 0.18 (0.06, 0.29) 0.05 (-0.13, 0.22) 0.07 (-0.18, 0.13) 0.22 (0.09, 0.31) 0.17 (-0.18, 0.15) 0.17 (-0.18, 0.15) 0.17 (-0.18, 0.15) 0.17 (-0.18, 0.15) <	0.20.0020.049e-040.023e-070.032e-060.30.0030.065e-160.10.055e-040.10.0020.67e-040.50.0020.47e-040.50.0020.47e-040.50.0020.47e-040.50.0030.0030.0030.0010.76e-100.0030.0010.76e-100.0030.0010.76e-100.0030.0030.0040.0050.0010.010.020.020.038e-060.82e-050.20.010.020.020.030.043e-089e-050.010.020.020.030.020.043e-050.010.020.020.030.030.043e-050.050.060.070.070.080.090.090.090.010.020.020.03
Gal-3 [4]LEP [4]SCF [4]SCF [4]PAPPA [34]PAPPA [34]PECAM-1 [34]SCF [34]SCF [34]SCF [31]GDF-15 [118]GDF-15 [118]GDF-15 [118]MMP-1 [118]SELE [118]REN [118]SELE [118]REN [118]SELE [118]CC13 [9]CTSD [118]CC13 [9]CTSD [118]CC13 [19]CTSD [19]CTSD [19]CTSD [19]CTSD [19]CTSD [19]CTSD [19]CTSD [19]CTSD [19]CTSD [19]MMP-12 [19]MMP-3 [19]PECAM-1 [19]SELE [19]TNF-R2 [10]TNF-R2 [10]TNF-R2 [10]CTSD [11]CTSD [11]CTSD [12]CTSD [12]CTSD [12]CTSD [12]SELE [11]MMP-12 [11]MMP-12 [12]MMP-13 [12]CTSD		0.03 (0.23, 104) 0.36 (-0.16, 0.88) 0.63 (-1.23, -0.04) 0.63 (-1.23, -0.04) 0.05 (-1.07, -0.24) 0.05 (-0.11, -0.05) 0.03 (-0.41, -0.18) 0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.33) -0.12 (-0.27, 0.04) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.01, 0.24) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.03, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.03, 0.07) 0.05 (0.01, 0.03) 0.07 (-0.03, 0.27) 0.16 (0.03, 0.28) <t< td=""><td>0.20.0020.049e-040.023e-070.032e-060.30.0030.065e-160.10.055e-040.10.0020.67e-040.10.0020.47e-040.40.0030.0040.93e-150.34e-430.91e-1840.20.0010.94e-040.20.0010.94e-040.20.0020.0030.010.020.030.040.050.010.010.020.030.030.040.050.050.060.070.080.090.0020.030.030.040.050.050.060.070.080.090.090.002</td></t<>	0.20.0020.049e-040.023e-070.032e-060.30.0030.065e-160.10.055e-040.10.0020.67e-040.10.0020.47e-040.40.0030.0040.93e-150.34e-430.91e-1840.20.0010.94e-040.20.0010.94e-040.20.0020.0030.010.020.030.040.050.010.010.020.030.030.040.050.050.060.070.080.090.0020.030.030.040.050.050.060.070.080.090.090.002
Gal-3 (4)LEP (4)SCF (4)SCF (34)PAPPA (34)PECAM-1 (34)SCF (34)SELE (34)Type 2 diabetesCTSD (118)GDF-15 (118)GDF-15 (118)GDF-15 (118)MMP-1 (118)SELE (118)SELE (118)CTSD (118)SELE (118)CC13 (9)CTSD (9)MMP-12 (9)TTF-R2 (9)TTF-R2 (9)TTF-R2 (9)CTSD (9)		0.03 (0.23, 1.04) 0.36 (-0.16, 0.88) 0.63 (-1.23, -0.04) 0.63 (-1.23, -0.04) 0.05 (-1.07, -0.24) 0.05 (-0.11, -0.18) 0.19 (-0.37, -0.02) 0.23 (-0.33, -0.14) 0.07 (-0.22, 0.03) 0.16 (-0.01, 0.32) 0.40 (-0.50, -0.30) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.02, 0.06) 0.02 (-0.02, 0.06) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (0.09, 0.31) 0.07 (-0.08, 0.30) 0.08 (-0.08) 0.09 (-0.05, 0.23) 0.16 (-0.26, -0.06) 0.07 (-0.08, 0.23) 0.16 (-0.26, -0.06) 0.07 (-0.08, 0.23) 0	0.2 0.002 0.03 2e-06 0.3 0.03 2e-06 0.3 0.003 0.003 0.003 0.003 0.001 0.01 0.02 0.03 0.002 0.03 0.002 0.03 0.002 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.03 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.9 3e-15 0.3 0.4-04 0.2 7e
Gal-3 [4] LEP [4] SCF [4] BAA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SCF [34] SCF [34] GDF-15 [118] GDF-15 [118] MMP-1 [18] MMP-1 [18] MMP-1 [18] ADM [12] CC13 [9] CC13 [9]		0.03 (0.23, 0.4) 0.03 (0.23, 0.4) 0.063 (-1.07, -0.24) 0.063 (-1.07, -0.24) 0.053 (-1.23, -0.04) 0.03 (-0.37, -0.02) 0.03 (-0.37, -0.02) 0.03 (-0.37, -0.02) 0.03 (-0.37, -0.02) 0.04 (-0.37, -0.02) 0.05 (0.03, 0.08) 0.05 (0.04, 0.03) -0.41 (-0.37, -0.02) 0.46 (-0.30, -0.30) -0.41 (-0.27, 0.04) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.10, 0.24) 0.07 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.03 (-0.15, 0.18) 0.04 (0.23, 0.45) 0.11 (-0.03, 0.26)	0.2 0.002 0.02 3e-07 0.03 2e-06 0.3 0.003 0.004 1e-04 0.05 5e-04 0.1 0.002 0.06 7e-04 0.5 0.002 0.4 7e-04 0.5 0.002 0.4 7e-04 0.4 7e-04 0.4 0.003 0.001 0.7 6e-10 0.003 0.001 0.7 6e-10 0.003 0.003 0.003 0.003 0.004 0.9 3e-15 0.3 0.2 0.001 0.9 4e-38 0.8 0.9 3e-04 0.2 0.001
Gal-3 [4] LEP [4] SCF [4] BAA1C ESM-1 [34] PECAM-1 [34] PECAM-1 [34] SELE [34] GDF-15 [118] GDF-15 [118] MMP-1 [118] MMP-1 [118] MMP-1 [118] MMP-1 [118] SELE [118] MMP-1 [118] CC13 [0] CC13			0.20.0020.049e-040.023e-070.032e-060.30.065e-160.10.020.67e-040.020.67e-040.020.47e-040.020.40.0020.40.0030.010.030.040.020.030.030.040.020.030.030.040.020.030.030.030.040.040.050.050.060.010.010.010.010.020.030.030.040.030.030.040.050.050.060.070.070.080.090.090.010.010.020.030.030.040.050.05
Gal-3 [4] LEP [4] SCF [4] ESM-1 [34] PECAM-1 [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] MMP-1 [18] MPO [18] SELE [113] MMP-1 [18] SELE [113] MPO [118] SELE [118] MPT-12 [9] MMP-12 [9] MMP-12 [9] SELE [9] TF [9] MMP-12 [9] MPT-12 [8] MPT-1		0.03 (0.21, 0.4) 0.03 (0.21, 0.4) 0.063 (-1.23, -0.04) 0.03 (-0.43, -0.11) -0.28 (-0.51, -0.05) -0.30 (-0.41, -0.18) 0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0	0.20.0020.049e-040.023e-070.030.030.030.065e-160.11e-040.055e-040.10.0020.667e-040.10.0020.47e-040.42e-040.010.76e-100.0030.061e-1840.28e-060.82e-040.20.010.76e-100.0030.030.061e-1840.28e-060.82e-040.20.010.93e-150.34e-380.82e-040.20.010.030.030.030.040.050.050.012e-040.10.020.030.030.040.050.050.0611e-040.030.020.030.030.040.050.050.0611e-040.071e-050.0620.070.081e-040.030.030.04
Gal-3 [4] LEP [4] SCF [4] BAATC ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [18] GDF-15 [18] GDF-15 [18] MMP-1 [18] MMP-1 [18] SELE [18] MMP-1 [18] SELE [18] MMP-1 [18] SELE [18] MMP-1 [18] SELE [18] CC13 [9] CTSD [9] CXCL16 [9] L-27 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] TTF-R2 [9] TTRANCE [9] TTRANCE [9] MMP-12 [8] MMP-12 [8] MMP-12 [8] MMP-13 [8] PAPPA [8] SELE [9] TTF-R2 [9] TTF-R2 [9] MMP-12 [8] MMP-13 [8] PAPPA [8] PAPPA [8] PAPPA [8] PAPPA [8] </td <td></td> <td>0.63 (0.23, 0.41) 0.63 (-1.23, -0.04) -0.65 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.63 (-0.41, -0.16) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.06) 0.16 (-0.01, 0.32) -0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.12 (-0.27, 0.04) 0.05 (0.03, 0.08) 0.05 (0.00, 0.10) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.21) 0.07 (-0.03, 0.25) 0.11 (-0.03, 0.26) 0.01 (-0.03, 0.26) 0.01 (-0.03, 0.26) 0.01 (-0.03, 0.26) <t< td=""><td>0.20.0020.049e-040.023e-070.030.030.030.030.065e-160.10.020.030.065e-040.10.020.030.020.47e-040.50.0020.47e-040.50.0020.47e-040.50.030.040.030.030.030.040.020.030.030.040.030.030.030.030.030.030.040.030.030.040.040.030.030.040.050.060.070.060.080.090.0020.030.030.040.050.050.060.060.07</td></t<></td>		0.63 (0.23, 0.41) 0.63 (-1.23, -0.04) -0.65 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.63 (-0.41, -0.16) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.06) 0.16 (-0.01, 0.32) -0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.12 (-0.27, 0.04) 0.05 (0.03, 0.08) 0.05 (0.00, 0.10) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.07) 0.05 (-0.03, 0.21) 0.07 (-0.03, 0.25) 0.11 (-0.03, 0.26) 0.01 (-0.03, 0.26) 0.01 (-0.03, 0.26) 0.01 (-0.03, 0.26) <t< td=""><td>0.20.0020.049e-040.023e-070.030.030.030.030.065e-160.10.020.030.065e-040.10.020.030.020.47e-040.50.0020.47e-040.50.0020.47e-040.50.030.040.030.030.030.040.020.030.030.040.030.030.030.030.030.030.040.030.030.040.040.030.030.040.050.060.070.060.080.090.0020.030.030.040.050.050.060.060.07</td></t<>	0.20.0020.049e-040.023e-070.030.030.030.030.065e-160.10.020.030.065e-040.10.020.030.020.47e-040.50.0020.47e-040.50.0020.47e-040.50.030.040.030.030.030.040.020.030.030.040.030.030.030.030.030.030.040.030.030.040.040.030.030.040.050.060.070.060.080.090.0020.030.030.040.050.050.060.060.07
Gal-3 [4] LEP [4] SCF [4] HbA1C ESM-1 [34] PAPPA [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] GDF-15 [118] MMP-1 [118] MPO [118] REN [118] SELE [118] MPO [118] SELE [118] GDF-15 [121] MMP-1 [29] MMP-12 [9] MMP-12 [9] MMP-12 [9] TMF-R2 [9] TMF-R2 [9] MMP-13 [8] MMP-14 [8] MMP-14 [8] MMP-18 [9]		0.033 (023, 04) 0.035 (023, 04) 0.065 (-16, 0.88) 0.063 (-12, -0.04) 0.033 (-0.41, -0.18) 0.017 (0.06, 0.28) 0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.07 (-0.03, 0.25) 0.11 (-0.03, 0.25) 0.11 (-0.03, 0.25) 0.11 (-0.03, 0.25) 0.11 (-0.03, 0.25) 0.11 (-0.04, 0.23) 0.15 (0.08, 0.40) 0.16 (0.07, 0.24) 0.17 (0.08, 0.40) 0.04 (0.23, 0.41) 0.05 (0.029, 0.4	0.20.0020.049e-040.023e-070.032e-060.10.055e-040.055e-040.055e-040.020.067e-040.50.0020.647e-040.050.0020.067e-040.050.0020.067e-040.030.030.030.030.040.030.043e-040.050.060.070.081e-040.010.021e-040.030.030.030.030.030.030.030.043e-052e-040.07
Gal-3 [4]LEP [4]SCF [4]HbACESM-1 [34]PAPPA [34]PECAM-1 [34]SCF [34]SCF [34]GDF-15 [118]GDF-15 [118]GDF-15 [118]GDF-15 [118]MPO [118]REN [118]SELE [118]Haart rateADM [12]CCC13 [9]CTSD [9]MMP-12 [9]MMP-13 [9]PECAM-1 [9]MMP-14 [9]MMP-15 [9]TTF [9]MMP-16 [1]MMP-17 [1]MMP-18 [1]MMP-18 [1]MMP-19 [1]MMP-18 [1]MMP-19 [1]MMP-19 [1]MMP-19 [1]MMP-10 [1]MMP-11 [1]MMP-11 [1]MMP-12 [1]MMP-12 [1]MMP-13 [1]MMP-14 [1]MMP-14 [1]MMP-15 [1]MMP-15 [1]MMP-16 [1]MMP-17 [1]CCC16 [1]CC17 [1]C		0033 (023, 004) 0036 (016, 038) 0036 (016, 038) 0036 (017, 024) 0037 (014, 018) 0037 (014, 018) 0037 (014, 018) 0037 (016, 028) 017 (006, 028) 016 (006, 028) 016 (006, 028) 016 (006, 028) 016 (006, 028) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 007) 005 (002, 008) 017 (006, 027) 017 (006, 027) 017 (006, 027) 017 (006, 027) 017 (008, 023) 016 (007, 028) 017 (018, 015) 016 (007, 028) 016 (007, 028) </td <td>0.20.0020.049e-040.023e-070.032e-060.10.030.065e-160.10.020.067e-040.020.067e-040.47e-040.47e-040.030.040.020.040.050.050.060.076e-050.030.043e-080.030.040.040.054e-040.10.010.020.030.030.043e-080.050.060.070.060.070.081e-040.010.020.020.030.030.043e-080.050.06<</td>	0.20.0020.049e-040.023e-070.032e-060.10.030.065e-160.10.020.067e-040.020.067e-040.47e-040.47e-040.030.040.020.040.050.050.060.076e-050.030.043e-080.030.040.040.054e-040.10.010.020.030.030.043e-080.050.060.070.060.070.081e-040.010.020.020.030.030.043e-080.050.06<
Gal-3 [4] LEP [4] SCF [4] HbACC ESM-1 [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes GDF-15 [118] GDF-15 [118] MPO [118] SELE [14] BECAM-1 [24] CCL3 [9] L-27 [9] MMP-12 [9] MMP-12 [9] MMP-3 [9] PECAM-1 [9] MMP-3 [9] PECAM-1 [9] MMP-3 [8] MMP-12 [9] MMP-12 [9] MMP-12 [9] TRANCE [9] MMP-12 [9] MMP-13 [8] MMP-14 [8] MMP-14 [8] MMP-15 [8] PAPKA BEE [39] PARA [30] PECAM-1 [31] PARA [32] PARA [32]		0.33 (0.23, 0.47) 0.36 (0.16, 0.88) 0.065 (-1.27, -0.04) 0.053 (-1.23, -0.04) 0.03 (-0.41, -0.18) 0.017 (0.06, 0.28) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) -0.12 (-0.37, -0.04) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.02 (-0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.03) 0.15 (0.06, 0.25) 0.11 (-0.03, 0.22) 0.02 (-0.33, 0.07) 0.05 (0.02, 0.03) 0.05 (0.02, 0.03) 0.16 (0.06, 0.23) 0.16 (0.07, 0.28) 0.07 (0.06, 0.23) 0.016 (-0.14, 0.15) 0.0	0.20.0020.049e-040.023e-070.032e-060.30.030.65e-140.020.067e-040.020.47e-040.020.47e-040.020.030.010.020.47e-040.020.030.0
Gal-3 [4] LEP [4] SCF [4] HbACC ESM-1 [34] PECAM-1 [34] PECAM-1 [34] SCF [34] GDF-15 [118] GDF-15 [118] MPO [118] SELE [118] MP-1 [13] SELE [118] CC13 [9] CTSD [19] CTSD [19] CC13 [9] CTSD [19] MP-1 [13] MP-12 [9] MP-12 [9] MP-12 [9] MP-12 [9] MP-12 [9] TFARDCE [9] MP-12 [1]		033 (023) (037) 036 (016 088) 0.065 (-107, -0.24) -0.03 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.21 (-0.33, -0.14) -0.02 (-0.33, -0.14) -0.03 (-0.41, -0.18) 0.017 (-0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.63, -0.30) -0.40 (-0.63, -0.30) -0.40 (-0.63, -0.30) -0.55 (-0.02, 0.04) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.07 (-0.10, 0.24) 0.07 (-0.10, 0.24) 0.07 (-0.10, 0.24) 0.17 (-0.08, 0.21)	0.20.0020.039e-040.023e-070.032e-060.30.065e-160.10.055e-040.10.020.667e-040.020.47e-040.030.030.047e-040.030.040.20.050.060.070.08100.030.040.050.050.060.070.08100.030.010.020.020.030.030.040.030.050.060.060.070.080.080.090.020.030.030.030.04
Gal-3 [4]LEP [4]SCF [4]HbACCESM-1 [34]PECAM-1 [34]PECAM-1 [34]SCF [34]GDF-15 [118]GDF-15 [118]MPO [118]REN [118]SELE [118]MPO [118]SELE [118]MPO [118]SELE [118]CCL3 [9]CCL3 [9]CCC13 [19]CCC13 [19]CCC13 [19]CCC13 [19]CCC13 [19]CCC13 [19]CCC13 [19]CCC13 [19]CCC13 [19]CCC13 [19]MMP-12 [18]MMP-12 [19]MMP-13 [10]PECAM-1 [19]MMP-14 [118]CCC116 [18]MMP-15 [19]MMP-16 [19]MMP-17 [10]MMP-17 [10]MMP-18 [10]MMP-19 [10]CCC116 [10]MMP-19 [10]MMP-19 [10]MMP-19 [10]MMP-118]MMP-19 [10]MMP-19 [10] <td></td> <td>0.33 (0.23, 104) 0.036 (-0.6 0.88) 0.065 (-1.07, -0.24) -0.03 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.02 (-0.33, -0.14) -0.03 (-0.41, -0.18) 0.17 (0.06, 0.28) 0.16 (-0.05, -0.30) -0.40 (-0.50, -0.30) -0.40 (-0.50, -0.30) -0.40 (-0.50, -0.30) -0.50 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.17 (-0.06, 0.23) 0.05 (-0.33, 0.22) 0.17 (-0.06, 0.23) 0.16 (-0.26, -0.06) -0.22 (-0.31, 0.21) 0.35 (0.29, 0.41) 0.35 (0.29, 0.41) 0.35 (0.29, 0.41) 0.36 (0.23, 0.45) 0.37 (0.23, 0.25) 0.37 (0.23, 0.24) 0.37 (0.23, 0.24)</td> <td>0.20.0020.039e-040.023e-070.032e-060.30.065e-160.10.055e-040.10.067e-040.50.0020.47e-040.030.030.030.042e-040.030.040.050.050.010.063e-083e-083e-083e-083e-083e-083e-083e-083e-093e-013e-020.030.030.040.050.070.081e-041e-041e-041e-041e-041e-041e-041e-041e-041e-041e-041e-041</td>		0.33 (0.23, 104) 0.036 (-0.6 0.88) 0.065 (-1.07, -0.24) -0.03 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.41, -0.18) -0.19 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.02 (-0.33, -0.14) -0.03 (-0.41, -0.18) 0.17 (0.06, 0.28) 0.16 (-0.05, -0.30) -0.40 (-0.50, -0.30) -0.40 (-0.50, -0.30) -0.40 (-0.50, -0.30) -0.50 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.05 (0.02, 0.05) 0.17 (-0.06, 0.23) 0.05 (-0.33, 0.22) 0.17 (-0.06, 0.23) 0.16 (-0.26, -0.06) -0.22 (-0.31, 0.21) 0.35 (0.29, 0.41) 0.35 (0.29, 0.41) 0.35 (0.29, 0.41) 0.36 (0.23, 0.45) 0.37 (0.23, 0.25) 0.37 (0.23, 0.24) 0.37 (0.23, 0.24)	0.20.0020.039e-040.023e-070.032e-060.30.065e-160.10.055e-040.10.067e-040.50.0020.47e-040.030.030.030.042e-040.030.040.050.050.010.063e-083e-083e-083e-083e-083e-083e-083e-083e-093e-013e-020.030.030.040.050.070.081e-041e-041e-041e-041e-041e-041e-041e-041e-041e-041e-041e-041
Gal-3 [4]LEP [4]SCF [4]HbA1CESM-1 [34]PECAM-1 [34]PECAM-1 [34]SELE [34]GDF-15 [118]GDF-15 [118]MP-1 [118]GDF-15 [118]MPO [118]REN [118]SELE [118]GDF-15 [118]GCC13 [9]CC13 [9]GCT3 [9]GCT3 [9]GCT3 [9]MMP-12 [9]MMP-12 [9]MMP-12 [9]TNF-R2 [9]TNF-R2 [9]TNF-R2 [9]GDF-15 [12]MMP-12 [13]MMP-12 [13]GCT3 [14]GDF [15]GDF [15] <t< td=""><td></td><td>0.33 (0.23, 10.4) 0.36 (-0.16, 0.88) -0.65 (-1.07, -0.24) -0.65 (-1.23, -0.05) -0.27 (-0.48, -0.11) -0.28 (-0.37, -0.02) -0.21 (-0.37, -0.02) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.05 (0.03, 0.08) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.04 (-0.06, 0.20, 0.07) 0.05 (0.02, 0.07) 0.</td><td>0.20.0040.020.032e-060.30.030.065e-160.11e-040.055e-040.020.067e-040.500.0020.47e-040.50.0020.47e-040.030.0030.040.050.050.010.020.020.030.030.030.040.040.050.050.060.071e-040.030.030.030.030.030.030.030.040.050.050.060.071e-040.030.030.030.030.04<td< td=""></td<></td></t<>		0.33 (0.23, 10.4) 0.36 (-0.16, 0.88) -0.65 (-1.07, -0.24) -0.65 (-1.23, -0.05) -0.27 (-0.48, -0.11) -0.28 (-0.37, -0.02) -0.21 (-0.37, -0.02) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.05 (0.03, 0.08) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.04 (-0.06, 0.20, 0.07) 0.05 (0.02, 0.07) 0.	0.20.0040.020.032e-060.30.030.065e-160.11e-040.055e-040.020.067e-040.500.0020.47e-040.50.0020.47e-040.030.0030.040.050.050.010.020.020.030.030.030.040.040.050.050.060.071e-040.030.030.030.030.030.030.030.040.050.050.060.071e-040.030.030.030.030.04 <td< td=""></td<>
Gal-3 [4]LEP [4]SCF [4]HbA1CESM-1 [34]PECAM-1 [34]PECAM-1 [34]SELE [34]GDF-15 [118]MMP-1 [118]MPO [118]MPO [118]MPO [118]MPO [118]SELE [116]CC13 [9]CC13 [9]CC13 [9]CC13 [10]CC13 [10]MMP-12 [10]MMP-12 [10]CC13 [10]MMP-13 [10]CC14 [10]MMP-14 [10]MMP-14 [10]MMP-15 [10]MMP-16 [10]MMP-17 [10]MMP-17 [10]MMP-18 [10]MMP-18 [10]MMP-19 [10]MMP-19 [10]MMP-11 [10]MMP-10 [10]MMP-11 [10]CC14 [10] <t< td=""><td></td><td>0.33 (0.23, 10.4) 0.36 (0.18, 0.48) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.28 (-0.51, -0.05) -0.30 (-0.41, -0.02) -0.37, -0.32, -0.33, -0.14) -0.77, (-0.22, 0.08) -0.77, (-0.22, 0.08) 0.16 (-0.01, 0.02) -0.40 (-0.50, -0.30) -0.41 (-0.50, -0.30) -0.42 (-0.27, 0.04) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.09) 0.05 (0.02, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07)</td><td>0.22 0.002 9e-04 0.03 2e-06 0.33 2e-04 0.002 0.04 7e-04 0.02 0.4 7e-04 0.02 0.4 7e-04 0.01 0.02 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.03 0.003 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.2 0.2 0.2 0.2 0.3 2.2 0.3 2.2 0.3 2.2 0.3 2.2 0.</td></t<>		0.33 (0.23, 10.4) 0.36 (0.18, 0.48) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.28 (-0.51, -0.05) -0.30 (-0.41, -0.02) -0.37, -0.32, -0.33, -0.14) -0.77, (-0.22, 0.08) -0.77, (-0.22, 0.08) 0.16 (-0.01, 0.02) -0.40 (-0.50, -0.30) -0.41 (-0.50, -0.30) -0.42 (-0.27, 0.04) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.09) 0.05 (0.02, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07)	0.22 0.002 9e-04 0.03 2e-06 0.33 2e-04 0.002 0.04 7e-04 0.02 0.4 7e-04 0.02 0.4 7e-04 0.01 0.02 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.03 0.003 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.2 0.2 0.2 0.2 0.3 2.2 0.3 2.2 0.3 2.2 0.3 2.2 0.
Gal-3 [4]LEP [4]SCF [4]HbA1CESM-1 [34]PECAM-1 [34]SCF [34]SELE [34]Type 2 diabetesCTSD [118]GDF-15 [118]GDF-15 [118]MPO [118]SELE [318]MPO [118]SELE [318]MPO [118]SELE [318]CCL3 [0]CCL3 [0]CCCL1 [0]CCCL1 [0]CCCL1 [0]MMP-12 [0]MMP-12 [0]MMP-12 [0]MMP-12 [0]MMP-12 [0]TTF [0]MMP-12 [0]MMP-12 [0]MMP-12 [0]TTF [1]MMP-12 [0]MMP-12 [0]MMP-13 [0]PECAM-1 [0]PAPEN [0]PAPEN [0]SELE [30]PAR-1 [30]PECAM-1 [30] <td></td> <td>0.03 (0.23, 104) 0.03 (0.23, 104) 0.05 (-1.02, -0.04) 0.02 (-0.43, -0.11) 0.02 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.04 (-0.10, 0.22) 0.05 (0.00, 0.07) 0.05 (0.00, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.01, 0.24) 0.07 (-0.08, 0.07) 0.08 (0.01, 0.24) 0.07 (-0.08, 0.07) 0.08 (0.01, 0.24) 0.07 (-0.08, 0.23) 0.06 (0.01, 0.24) 0.07 (-0.08, 0.23) 0.05 (0.01, 0.24) 0.07 (</td> <td>0.22 9e-04 0.02 3e-07 0.03 2e-06 0.1 1e-04 0.02 0.01 0.002 0.01 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.04 7e-04 0.02 0.03 0.04 0.02 0.04 0.02 0.01 0.7 6e-10 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.05 0.06 0.07 0.08 0.001</td>		0.03 (0.23, 104) 0.03 (0.23, 104) 0.05 (-1.02, -0.04) 0.02 (-0.43, -0.11) 0.02 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.03 (-0.41, -0.18) 0.04 (-0.10, 0.22) 0.05 (0.00, 0.07) 0.05 (0.00, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.01, 0.24) 0.07 (-0.08, 0.07) 0.08 (0.01, 0.24) 0.07 (-0.08, 0.07) 0.08 (0.01, 0.24) 0.07 (-0.08, 0.23) 0.06 (0.01, 0.24) 0.07 (-0.08, 0.23) 0.05 (0.01, 0.24) 0.07 (0.22 9e-04 0.02 3e-07 0.03 2e-06 0.1 1e-04 0.02 0.01 0.002 0.01 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.04 7e-04 0.02 0.03 0.04 0.02 0.04 0.02 0.01 0.7 6e-10 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.05 0.06 0.07 0.08 0.001
Gal-3 [4] LEP [4] SCF [4] HAPAC SEM-1 [34] PECAM-1 [34] PECAM-1 [34] SCF [34] SELE [34] Type 2 diabetes CTSD [118] GDF-15 [118] GDF-15 [118] GDF-15 [118] MPO [118] SELE [118] MPT-1 [19] CCX16 [0] IL-27 [0] MMP-12 [0] SELE [19] MPT-12 [0] TFANCE [0] MPT-12 [0]		0.33 (0.23, 1.04) 0.36 (-0.16, 0.86) 0.65 (-1.07, 0.24) 0.65 (-1.23, -0.05) 0.28 (-0.51, -0.05) 0.03 (-0.41, -0.16) 0.03 (-0.41, -0.16) 0.03 (-0.41, -0.16) 0.03 (-0.41, -0.16) 0.04 (-0.50, -0.30) 0.16 (-0.01, 0.32) 0.05 (0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.07 (-0.08, 0.07) 0.05 (0.02, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.07 (-0.08, 0.07) 0.08 (-0.11, -0.08) 0.07 (-0.18, 0.08)	0.20.0020.032e-040.032e-030.0030.065e-160.10.020.065e-040.10.0020.047e-040.030.040.030.030.030.040.030.030.030.040.030.050.060.070.081.0010.010.020.020.030.030.040.030.050.060.070.060.070.080.090.0020.020.030.030.040.050.050.060.060.07 <td< td=""></td<>
Gal-3 [4]LEP (4)SCF (34)PAPA (34)PECAM-1 [34]SCF (34)SCF (34)SCF (34)SCF (34)SCF (34)SCF (34)SCF (34)GDF-15 [118]MP-1 [118]MP-1 [118]SELE [118]MP-1 [118]SELE [118]CC13 (9)CC13 (9)CC13 (9)CC13 (9)CC13 (9)CC13 (9)CC13 (9)CC13 (9)CC13 (9)CC13 (9)CC14 (9)MP-1 (9)SELE (9)MP-1 (9)SELE (9)TF (9)SELE (9)TF (9)MMP-1 (10)MMP-1 (10)CC14 (10		0.38 (-0.43, 0.43) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.05) -0.28 (-0.51, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.51, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.51, -0.05) -0.37 (-0.22, 0.08) -0.17 (-0.52, 0.08) -0.16 (-0.37, -0.02) -0.27 (-0.27, 0.04) -0.55 (0.02, 0.07) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.07 (-0.18, 0.17) 0.07 (-0.18, 0.17) 0.07 (-0.18, 0.17) 0.07 (-0.18, 0.17) 0.07 (-0.18, 0.17) 0.07 (-0.18, 0.17)	0.2 0.002 3e-07 0.03 2e-06 0.1 0.05 5e-04 0.1 0.02 3e-04 0.1 0.05 5e-04 0.1 0.02 3e-04 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.4 7e-04 0.4 0.9 3e-16 0.7 6e-10 0.003 0.003 0.003 0.003 0.004 0.9 3e-18 0.8 0.9 3e-08 0.001 0.9 3e-11 0.2 0.002 0.003
Gal-3 [4]LEP [4]SCF [4]PAPA [34]PECAM-1 [34]PECAM-1 [34]SCF [34]SCF [34]GDF-15 [118]GDF-15 [118]GDF-15 [118]GDF-15 [118]MPO [118]SELE [118]MPO [118]SELE [118]GDF-15 [118]MMP-16MMP-16MMP-17MMP-18GDFSELE [39]PECAM-18MMP-18MMP-18MMP-18GDFSELE [39]FET<182		0.36 (-0.16, 0.86) -0.63 (-1.23, -0.04) -0.63 (-1.23, -0.04) -0.28 (-0.51, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.51, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.51, -0.05) -0.37 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.40 (-0.50, -0.30) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.05, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) 0.17 (0.06, 0.28) <	0.2 0.002 0.02 3e-07 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.5 0.04 0.5 0.04 0.5 0.04 0.5 0.04 0.03 0.04 0.03 0.04 0.03 0.01 0.7 6e-01 0.003 0.6 1e-47 0.2 0.01 0.7 6e-01 0.03 0.6 1e-47 0.2 0.01 0.7 6e-01 0.03 0.6 1e-184 0.2 0.01
Gal-3 (4)LEP (4)SCF (4)HbA1CESM-1 (34)PECAM-1 (34)SCF (34)SELE (34)GDF-15 (118)GDF-15 (118)GDF-15 (118)GDF-15 (118)MPO (118)SELE (118)MPO (118)SELE (118)GDF-15 (118)GDF-15 (118)GDF-15 (119)CC13 (9)CC13 (9)CC13 (9)GDF-15 (129)MMP-10MMP-12 (9)MMP-12 (9)MMP-12 (9)MMP-12 (9)MMP-12 (9)MMP-12 (9)MMP-12 (9)TNF-R2 (9)TNF-R2 (9)TNF-R2 (9)MMP-3 (8)MMP-12 (11MMP-12 (12)MMP-12 (11)MMP-12 (11)MMP-12 (11)MMP-12 (11)MMP-12 (12)MMP-12 (12)CC14 (12) <tr< td=""><td></td><td>0.03 (0.23, 104) -0.03 (-0.13, -0.04) -0.27 (-0.43, -0.04) -0.28 (-0.51, -0.05) -0.39 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.07 (-0.22, 0.08) 0.16 (-0.01, 0.32) -0.07 (-0.22, 0.08) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0.03, 0.07) 0.0</td><td>0.2 0.02 0.02 3e-07 0.03 2.03 0.03 2.04 0.03 2.04 0.03 2.04 0.05 5e-04 0.01 2.002 0.04 7.003 0.002 0.003 0.002 0.4 0.003 0.4 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.2 0.2 0.001 0.002 0.002</td></tr<>		0.03 (0.23, 104) -0.03 (-0.13, -0.04) -0.27 (-0.43, -0.04) -0.28 (-0.51, -0.05) -0.39 (-0.37, -0.02) -0.23 (-0.33, -0.14) -0.07 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.16 (-0.01, 0.32) -0.07 (-0.22, 0.08) 0.16 (-0.01, 0.32) -0.07 (-0.22, 0.08) 0.05 (0.03, 0.08) 0.05 (0.02, 0.07) 0.05 (0.03, 0.07) 0.0	0.2 0.02 0.02 3e-07 0.03 2.03 0.03 2.04 0.03 2.04 0.03 2.04 0.05 5e-04 0.01 2.002 0.04 7.003 0.002 0.003 0.002 0.4 0.003 0.4 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.2 0.2 0.001 0.002 0.002
Gal-3 (4)LEP (4)SCF (4)HbA1CESM-1 (34)PECAM-1 (34)SCF (34)SELE (34)GDF-15 (118)GDF-15 (118)GDF-15 (118)GDF-15 (118)MPO (118)SELE (118)MPO (118)SELE (118)GDF-15 (118)GCTC10 (118)GCTC10 (118)GCTC10 (118)GCTC10 (118)GDF-15 (129)GDF-15 (120)GDF-15 (120) <td< td=""><td></td><td>0 0</td><td>0.2 0.02 3e-07 0.03 2e-06 0.3 0.003 0.04 0.05 5e-04 0.1 0.02 0.06 7e-04 0.02 0.4 7e-04 0.03 0.04 7e-04 0.03 0.03 0.03 0.04 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.2 0.2 0.2 0.2 0.3 0.4 0.2 0.2 0.2 0.2</td></td<>		0 0	0.2 0.02 3e-07 0.03 2e-06 0.3 0.003 0.04 0.05 5e-04 0.1 0.02 0.06 7e-04 0.02 0.4 7e-04 0.03 0.04 7e-04 0.03 0.03 0.03 0.04 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.2 0.2 0.2 0.2 0.3 0.4 0.2 0.2 0.2 0.2
Gal-3 (4)LEP (4)SCF (4)HbACCESM-1 (34)PECAM-1 (34)SCF (34)SELE (34)GDF-15 (118)GDF-15 (118)GDF-15 (118)GDF-15 (118)SELE (34)GDF-15 (118)SELE (34)CCL3 (27)CCL3 (27) <tr< td=""><td></td><td>0.83 (0.23, 1.04) -0.63 (-1.23, -0.04) -0.27 (-0.43, -0.11) -0.28 (-0.43, -0.11) -0.28 (-0.43, -0.14) -0.27 (-0.23, -0.04) -0.28 (-0.43, -0.14) -0.27 (-0.22, 0.08) 0.17 (-0.02, 0.08) 0.18 (-0.07, -0.22) -0.27 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.07 (-0.10, 0.24) 0.07 (-0.10, 0.24) 0.15 (0.05, 0.25) 0.17 (0.06, 0.3) 0.16 (0.03, 0.07) 0.07 (-0.10, 0.24) 0.17 (0.06, 0.3) 0.17 (0.06, 0.3) 0.11 (-0.05, 0.25) 0.11 (-0.05, 0.26) 0.11 (-0.05, 0.26) 0.11 (-0.05, 0.26)</td><td>0.2 0.02 9e-04 0.02 3e-07 0.03 0.04 0.03 0.04 0.05 5e-04 0.10 0.002 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.63 0.64 0.63 0.64 0.63 0.64 0.7 6e-10 0.63 0.64 0.63 0.64 0.64 0.64 0.64 0.64</td></tr<>		0.83 (0.23, 1.04) -0.63 (-1.23, -0.04) -0.27 (-0.43, -0.11) -0.28 (-0.43, -0.11) -0.28 (-0.43, -0.14) -0.27 (-0.23, -0.04) -0.28 (-0.43, -0.14) -0.27 (-0.22, 0.08) 0.17 (-0.02, 0.08) 0.18 (-0.07, -0.22) -0.27 (-0.22, 0.08) 0.17 (0.06, 0.28) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.07 (-0.10, 0.24) 0.07 (-0.10, 0.24) 0.15 (0.05, 0.25) 0.17 (0.06, 0.3) 0.16 (0.03, 0.07) 0.07 (-0.10, 0.24) 0.17 (0.06, 0.3) 0.17 (0.06, 0.3) 0.11 (-0.05, 0.25) 0.11 (-0.05, 0.26) 0.11 (-0.05, 0.26) 0.11 (-0.05, 0.26)	0.2 0.02 9e-04 0.02 3e-07 0.03 0.04 0.03 0.04 0.05 5e-04 0.10 0.002 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.02 0.64 0.63 0.64 0.63 0.64 0.63 0.64 0.7 6e-10 0.63 0.64 0.63 0.64 0.64 0.64 0.64 0.64
Gal-3 (4)LEP (4)SCF (4)HbACCESM-1 (34)PECAM-1 (34)SCF (34)SCF (34)GDF-15 (16)GDF-15 (16)GDF-15 (16)GDF-15 (17)GDF-15 (17)GDF-15 (17)SELE (17)GDF-15 (17)MMP-12 (17) <tr< td=""><td></td><td>0.36 (-0.16, 0.48) -0.63 (-1.23, -0.04) -0.27 (-0.43, -0.11) -0.28 (-0.63, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.63, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.63, -0.05) -0.27 (-0.43, -0.11) -0.28 (-0.63, -0.05) -0.40 (-0.60, -0.30) -0.41 (-0.22, 0.08) -0.55 (0.03, 0.08) 0.05 (0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.07 (-0.16, 0.24) 0.07 (-0.16, 0.24) 0.11 (-0.03, 0.26) 0.11 (-0.03, 0.26) 0.11 (-0.03, 0.26) 0.11 (-0.04, 0.23) 0.07 (-0.16, 0.23) 0.08 (-0.11, -0.04) 0.08 (-0.11, -0.04)</td><td>0.2 0.04 9e-04 0.02 3e-07 2e-06 0.1 1e-04 0.5 0.1 0.02 5e-16 0.1 0.002 0.003 0.02 0.04 7e-04 0.4 7e-04 0.4 7e-04 0.03 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.005 0.001 0.002 0.002 0.003 0.004 0.001 <t< td=""></t<></td></tr<>		0.36 (-0.16, 0.48) -0.63 (-1.23, -0.04) -0.27 (-0.43, -0.11) -0.28 (-0.63, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.63, -0.05) -0.39 (-0.37, -0.02) -0.28 (-0.63, -0.05) -0.27 (-0.43, -0.11) -0.28 (-0.63, -0.05) -0.40 (-0.60, -0.30) -0.41 (-0.22, 0.08) -0.55 (0.03, 0.08) 0.05 (0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.07 (-0.16, 0.24) 0.07 (-0.16, 0.24) 0.11 (-0.03, 0.26) 0.11 (-0.03, 0.26) 0.11 (-0.03, 0.26) 0.11 (-0.04, 0.23) 0.07 (-0.16, 0.23) 0.08 (-0.11, -0.04) 0.08 (-0.11, -0.04)	0.2 0.04 9e-04 0.02 3e-07 2e-06 0.1 1e-04 0.5 0.1 0.02 5e-16 0.1 0.002 0.003 0.02 0.04 7e-04 0.4 7e-04 0.4 7e-04 0.03 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.005 0.001 0.002 0.002 0.003 0.004 0.001 <t< td=""></t<>
Gdi-3 (4)LEP (4)SCF (4)HAACCESM-1 (34)PECAM-1 (34)SCF (34)Type 2 diabetesGDF-15 (118)MPC (118)GDF-15 (118)MPC (118)SELE (118)MPC (118)SELE (118)MPC (118)SELE (118)MPC (118)SELE (118)MPC (118)SELE (118)MPC (118)SELE (118)CCS (118)GDF-15 (118)MPC (118)SELE (118)MPC (118)<		0.36 (-0.16, 0.86) -0.65 (-1.23, -0.04) -0.27 (-0.43, -0.11) -0.28 (-0.51, -0.05) -0.39 (-0.23, -0.04) -0.27 (-0.43, -0.11) -0.27 (-0.43, -0.02) -0.28 (-0.51, -0.02) -0.27 (-0.43, -0.02) -0.27 (-0.43, -0.02) -0.40 (-0.55, -0.30) -0.41 (-0.10, 0.20) 0.05 (0.02, 0.07)	0.2 0.002 9e-04 0.02 3e-07 0.03 0.03 0.03 0.04 5e-04 0.1 0.002 5e-04 0.1 0.002 0.04 7e-04 0.5 0.001 0.4 0.03 0.04 7e-04 0.4 0.03 0.04 7e-04 0.03 0.01 0.03 0.01 0.03 0.03 0.03 0.03 0.04 0.2 0.1 0.03 0.03 0.03 0.03 0.04 2.2 0.2 0.2 0.2 0.2 0.3 0.4
Gal-3 (4)LEP (4)SCF (4)PAPPA (34)PECAM-1 (34)PECAM-1 (34)SELE (34)GDF-15 (14)GDF-15 (14)MMP-1 (13)SELE (14)MPAP (14)SELE (14)MPAP (14)SELE (14)CC3 (39)CC4 (39)MMP-12 (30)MMP-12 (30)CC3 (21) (22)CC3 (21) (21)MMP-12 (30)MMP-12 (30)MM		0.03 (0-23, 104) 0.03 (0-13, 0.04) 0.03 (0-14, 0.05) 0.03 (0-14, 0.05) 0.03 (0-14, 0.05) 0.03 (0-14, 0.05) 0.03 (0-14, 0.05) 0.03 (0-14, 0.05) 0.04 (0-05, 0.30) 0.05 (0.03, 0.07) 0.05 (0.03, 0.07) 0.05 (0.02, 0.07) 0.05 (0.01, 0.02) 0.07 (0.04 (0.02) 0.07 (0.04 (0.02) 0.07 (0.04 (0.02) 0.07 (0.04 (0.02) 0.07 (0.04 (0.02) 0.07 (0.04 (0.02)	0.2 0.02 9e-04 0.02 3e-03 2e-06 0.33 0.06 5e-16 0.1 1e-04 5e-04 0.1 0.002 7e-04 0.5 0.02 0.4 7e-04 0.4 0.02 3e-04 0.4 0.03 0.04 7e-04 0.4 0.03 0.04 7e-04 0.4 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.03 0.04 0.2 0.2 0.2 0.3 <
Gal-3 (H)LEP (A)SCF (A)PAPA (A)PECAM-1 (A)PECAM-1 (A)SELE (A)SELE (A)GDF-15 (118)MPP(18)SELE (A)MPP(18)SELE (A)MPAP (A)SELE (A)SELE (A)CCACI (A)CCACI (A)CCACI (A)CCACI (A)MP-12MP-12CCACI (A)MP-12MMP-13MMP-14MMPMMPMMPMMPMMPMMPMMPMMPMMPMMP<		0.38 (-0.18, 0.88) -0.55 (-1.07, -0.24) -0.27 (-0.43, -0.11) -0.27 (-0.43, -0.11) -0.28 (-0.57, -0.05) -0.37 (-0.22, 0.09) 0.17 (0.06, 0.28) 0.16 (-0.07, -0.22, 0.09) 0.17 (0.06, 0.28) 0.16 (-0.07, -0.22, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.01, 0.02) 0.01 (-0.15, 0.14) 0.02 (0.09, 0.31) 0.01 (-0.15, 0.14) 0.02 (0.09, 0.31) 0.05 (0.01, 0.02) 0.06 (-0.13, 0.02) 0.07 (-0.15, 0.02)	0.2 0.02 0.02 3e-04 0.03 0.06 5e-16 0.1 1e-04 0.05 5e-04 0.102 0.06 7e-04 0.03 0.04 7e-04 0.03 0.04 7e-04 0.03 0.04 7e-04 0.03 0.001 0.7 6e-10 0.001 0.7 6e-10 0.001 0.7 6e-10 0.003 0.003 0.003 0.003 0.003 0.003 0.9 4e-04 0.9 4e-04 0.9 4e-04 0.9 4e-04 0.001 0.002
GGI-3 (HALEP (A)LEP (A)ESM-1 (A)PECAM-1 (A)SELE (A)SELE (A)GDF-15 (118)GDF-15 (128)GDF-15 (128) <td></td> <td>0.03 (C.23, 1.04) 0.03 (C.016, 0.88) 0.05 (-1.37, -0.44) 0.05 (-1.37, -0.44) 0.02 (-0.43, -0.11) 0.22 (-0.43, -0.12) 0.11 (-0.22, 0.05) 0.11 (-0.22, 0.05) 0.11 (-0.22, 0.04) 0.05 (0.03, 0.02) 0.05 (0.03, 0.02) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.03 (-0.04, 0.02) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.03 (-0.18, 0.03)</td> <td>0.2 0.02 0.03 2e-06 0.33 2e-06 0.1 1e-04 0.05 5e-04 0.1 1e-04 0.05 5e-04 0.1 1e-04 0.05 5e-04 0.002 0.06 7e-04 0.4 0.03 0.01 0.02 0.03 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.05 0.03 0.04 0.05 0.03 0.04</td>		0.03 (C.23, 1.04) 0.03 (C.016, 0.88) 0.05 (-1.37, -0.44) 0.05 (-1.37, -0.44) 0.02 (-0.43, -0.11) 0.22 (-0.43, -0.12) 0.11 (-0.22, 0.05) 0.11 (-0.22, 0.05) 0.11 (-0.22, 0.04) 0.05 (0.03, 0.02) 0.05 (0.03, 0.02) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.02 (-0.03, 0.07) 0.03 (-0.04, 0.02) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.11 (-0.06, 0.23) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.02 (-0.18, 0.03) 0.03 (-0.18, 0.03)	0.2 0.02 0.03 2e-06 0.33 2e-06 0.1 1e-04 0.05 5e-04 0.1 1e-04 0.05 5e-04 0.1 1e-04 0.05 5e-04 0.002 0.06 7e-04 0.4 0.03 0.01 0.02 0.03 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.05 0.03 0.04 0.05 0.03 0.04
Gal-3 (H)LEP (A)SELE (A)PECAM-1 (A)PECAM-1 (A)SELE (A)SELE (A)GDF-5 [118]GDF-5 [118]GDF-15 [118]GDF-15 [118]GDF-15 [118]MPO [118]SELE (118)MPO [118]SELE (118)GDF-15 [118]GDF-15 [118]GDF-15 [118]MPO [118]SELE (118)CC3 (A)CC3 (A) </td <td></td> <td>0.03 (C.03.) 0.03 (C.04.0, 0.88) 0.05 (C.13.7, 0.24) 0.05 (C.13.7, 0.24) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.24, 0.23, 0.14) 0.05 (C.03.7, 0.24, 0.23, 0.24) 0.05 (C.03.7, 0.24</td> <td>0.2 0.02 0.03 2e-06 0.33 2e-06 0.33 0.06 5e-16 0.7 0.02 0.04 0.05 5e-04 0.02 0.04 7e-04 0.4 0.03 0.04 0.05 5e-04 0.4 0.02 0.4 0.03 0.04 0.05 0.01 0.6 1e-184 0.2 0.01 0.6 0.01 0.6 0.7 0.9 4e-43 0.2 0.01 0.9 4e-43 0.2 0.01 0.9 4e-18 0.2 0.001 0.01 </td>		0.03 (C.03.) 0.03 (C.04.0, 0.88) 0.05 (C.13.7, 0.24) 0.05 (C.13.7, 0.24) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.23, 0.14) 0.05 (C.03.7, 0.24, 0.23, 0.14) 0.05 (C.03.7, 0.24, 0.23, 0.24) 0.05 (C.03.7, 0.24	0.2 0.02 0.03 2e-06 0.33 2e-06 0.33 0.06 5e-16 0.7 0.02 0.04 0.05 5e-04 0.02 0.04 7e-04 0.4 0.03 0.04 0.05 5e-04 0.4 0.02 0.4 0.03 0.04 0.05 0.01 0.6 1e-184 0.2 0.01 0.6 0.01 0.6 0.7 0.9 4e-43 0.2 0.01 0.9 4e-43 0.2 0.01 0.9 4e-18 0.2 0.001 0.01
Gal-3 (H)LEP (A)SCF (A)SCF (A)PAPPA (30)PECAM-1 (34)PECAM-1 (34)SCE (34)SCE (34)SCE (34)SCE (34)SCE (34)SCE (34)SCE (34)SEE (16)SCE (34)SCE (34) <t< td=""><td></td><td>0.03 (C.016, 0.28) 0.03 (C.016, 0.28) 0.05 (C.137, 0.24) 0.05 (C.017, 0.24) 0.05 (C.013, 0.24) 0.05 (C.022, 0.05) 0.05 (C.022, 0.07) 0.05 (C.023, 0.07) 0.05 (C.023, 0.07) 0.05 (C.023, 0.07) 0.05 (C.023, 0.07) 0.05 (C.013, 0.22) 0.07 (C.043, 0.05) 0.07 (C.043, 0.05)</td><td>0.2 0.03 9e-04 0.03 2e-06 0.33 2e-04 0.05 5e-14 0.002 0.002 0.002 0.002 0.003 0.004 7e-04 0.5 0.003 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.20 0.03 0.04 0.03 0.03 0.04 0.03 0.04 0.05 0.05</td></t<>		0.03 (C.016, 0.28) 0.03 (C.016, 0.28) 0.05 (C.137, 0.24) 0.05 (C.017, 0.24) 0.05 (C.013, 0.24) 0.05 (C.022, 0.05) 0.05 (C.022, 0.07) 0.05 (C.023, 0.07) 0.05 (C.023, 0.07) 0.05 (C.023, 0.07) 0.05 (C.023, 0.07) 0.05 (C.013, 0.22) 0.07 (C.043, 0.05)	0.2 0.03 9e-04 0.03 2e-06 0.33 2e-04 0.05 5e-14 0.002 0.002 0.002 0.002 0.003 0.004 7e-04 0.5 0.003 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.20 0.03 0.04 0.03 0.03 0.04 0.03 0.04 0.05 0.05
GGI-3 (H)LEP (4)SCF (4)ESM-1 (34)PAPPA (33)PECAM-1 (34)SELE (34)Type 2 dabetesCTSD [18]GDF-15 (18)MP-1 (18)SELE (14)MP-1 (18)SELE (14)CC13 (19)CC13 (19)CC14 (19)MMP-12 (19)MMP-12 (19)CC14 (19)MMP-12 (19)CC14 (19)MMP-13 (19)CC14 (19)MMP-14 (19)MMP-14 (19)MMP-14 (19)MMP-14 (19)MMP-14 (19)CC14 (19)CC14 (19)MMP-14 (19)CC14 (19)MMP-15 (19)CC14 (19)MMP-16 (19)MMP-17 (19)CC14 (19) <t< td=""><td></td><td>0.03 (-0.13, 0.23, 1-0.04) 0.05 (-0.13, -0.24) 0.05 (-0.13, -0.24) 0.05 (-0.23, -0.14) -0.07 (-0.46, -0.23) 0.18 (-0.27, -0.02) 0.05 (0.03, 0.08) 0.05 (0.03, 0.08) 0.05 (0.03, 0.09) 0.05 (0.03, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.07 (-0.08, 0.23) 0.01 (-0.15, 0.18) 0.02 (0.01, 0.24) 0.01 (-0.15, 0.18) 0.02 (0.01, 0.24) 0.01 (-0.15, 0.18) 0.01 (-0.15, 0.18) 0.01 (-0.15, 0.18) 0.02 (-0.13, 0.21) <t< td=""><td>0.2 0.03 9e-04 0.03 2e-06 0.03 2e-04 0.05 5e-04 0.05 5e-04 0.05 0.002 0.002 0.002 0.002 0.003 0.04 7e-04 0.5 0.01 0.02 0.03 0.04 7e-04 0.4 0.9 3e-013 0.03</td></t<></td></t<>		0.03 (-0.13, 0.23, 1-0.04) 0.05 (-0.13, -0.24) 0.05 (-0.13, -0.24) 0.05 (-0.23, -0.14) -0.07 (-0.46, -0.23) 0.18 (-0.27, -0.02) 0.05 (0.03, 0.08) 0.05 (0.03, 0.08) 0.05 (0.03, 0.09) 0.05 (0.03, 0.09) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.05 (0.02, 0.08) 0.07 (-0.08, 0.23) 0.01 (-0.15, 0.18) 0.02 (0.01, 0.24) 0.01 (-0.15, 0.18) 0.02 (0.01, 0.24) 0.01 (-0.15, 0.18) 0.01 (-0.15, 0.18) 0.01 (-0.15, 0.18) 0.02 (-0.13, 0.21) <t< td=""><td>0.2 0.03 9e-04 0.03 2e-06 0.03 2e-04 0.05 5e-04 0.05 5e-04 0.05 0.002 0.002 0.002 0.002 0.003 0.04 7e-04 0.5 0.01 0.02 0.03 0.04 7e-04 0.4 0.9 3e-013 0.03</td></t<>	0.2 0.03 9e-04 0.03 2e-06 0.03 2e-04 0.05 5e-04 0.05 5e-04 0.05 0.002 0.002 0.002 0.002 0.003 0.04 7e-04 0.5 0.01 0.02 0.03 0.04 7e-04 0.4 0.9 3e-013 0.03
GGal-3 (4)LEP (4)SCF (4)ESM-1 (34)EAPAPA (34)PAPAPA (34)PECAM-1 (34)SELE (34)MP-1 (18)GDF-15 (18)MP-1 (18)SELE (17)MP-1 (18)SELE (17)CC13 (19)CC13 (19) <t< td=""><td></td><td>0.03 (0.03, 0.03) 0.03 (0.03, 0.03) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.01, 0.02) 0.11 (0.06, 0.20) 0.11 (0.06, 0.20) 0.11 (0.06, 0.20) 0.11 (0.06, 0.20) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.04, 0.10)</td><td>0.2 0.03 9e-04 0.03 2e-03 0.03 2e-04 0.01 1e-04 0.02 0.4 0.002 0.4 0.002 0.4 0.002 0.4 7e-04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.2 0.03 0.04 0.03 0.04 0.03 0.04 0.05 0.061 0.07 0.08 0.01 0.01</td></t<>		0.03 (0.03, 0.03) 0.03 (0.03, 0.03) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.03, 0.04) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.02, 0.07) 0.05 (0.01, 0.02) 0.11 (0.06, 0.20) 0.11 (0.06, 0.20) 0.11 (0.06, 0.20) 0.11 (0.06, 0.20) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.03, 0.10) 0.02 (0.04, 0.10)	0.2 0.03 9e-04 0.03 2e-03 0.03 2e-04 0.01 1e-04 0.02 0.4 0.002 0.4 0.002 0.4 0.002 0.4 7e-04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.2 0.03 0.04 0.03 0.04 0.03 0.04 0.05 0.061 0.07 0.08 0.01 0.01
GGI-3 (I)LEP (4)SCF (4)ESM-1 (34)PAPPA (34)PAPPA (34)PECAM-1 (34)GDF-15 (118)MPC (118)GDF-15 (118)MPC (118)GDF-15 (118)MPC (118)SELE (118)MPC (118)GDF-15 (118)MPC (118) <td< td=""><td></td><td>0.03 (-0.15, 0.28) -0.03 (-0.17, 0.24) -0.22 (-0.32, -0.41) -0.22 (-0.33, -0.14) -0.22 (-0.33, -0.14) -0.03 (-0.27, 0.04) -0.14 (-0.37, 0.02) -0.14 (-0.37, 0.02) -0.14 (-0.37, 0.02) -0.14 (-0.37, 0.03) -0.14 (-0.03, 0.03) -0.05 (0.02, 0.07) 0.05 (0.01, 0.02) 0.07 (-0.08, 0.23) 0.07 (-0.08, 0.23) 0.07 (-0.08, 0.23) 0.07 (-0.08, 0.23)</td><td>0.2 0.03 9e-04 0.03 2.03 0.03 0.03 0.03 0.03 0.04 0.05 0.1 0.001 0.02 0.4 0.03 0.04 7.003 0.001 0.002 0.4 0.003 0.01 0.03 0.03 0.03 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.03 0.04 0.03 0.04</td></td<>		0.03 (-0.15, 0.28) -0.03 (-0.17, 0.24) -0.22 (-0.32, -0.41) -0.22 (-0.33, -0.14) -0.22 (-0.33, -0.14) -0.03 (-0.27, 0.04) -0.14 (-0.37, 0.02) -0.14 (-0.37, 0.02) -0.14 (-0.37, 0.02) -0.14 (-0.37, 0.03) -0.14 (-0.03, 0.03) -0.05 (0.02, 0.07) 0.05 (0.01, 0.02) 0.07 (-0.08, 0.23) 0.07 (-0.08, 0.23) 0.07 (-0.08, 0.23) 0.07 (-0.08, 0.23)	0.2 0.03 9e-04 0.03 2.03 0.03 0.03 0.03 0.03 0.04 0.05 0.1 0.001 0.02 0.4 0.03 0.04 7.003 0.001 0.002 0.4 0.003 0.01 0.03 0.03 0.03 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.03 0.04 0.03 0.04
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All associations with IVW (fixed effects) P < 0.0034

--- IVW (fixed effects) --- Weighted Median

Supplementary Notes

Systems biology

The purpose of the network analysis was to identify the most likely chain of events (via protein interactions or other forms of regulation) leading from the trans-pQTL to the plasma protein being affected. For each of the trans-pQTL signals, all genes within a distance of 1 Mb of the SNP were considered to be a possible cis-gene intermediary between the SNP and the plasma protein. For investigating possible chains of events acting via physical interactions, we utilized the proteinprotein interaction (PPI) network inBio MapTM (InWeb InBioMap)¹ (https://www.intomics.com/inbio/map.html), and for investing other potential regulatory chains we generated an association network based on text mining of PubMed abstracts. The inBio Map PPI resource was selected because it is built entirely on experimentally determined interactions, has a large coverage of the human interactome and furthermore, provides a confidence score on the experimental support for each edge in the network allowing for fine-grained control of what to include. In this study, we only used the high confidence subset of the global PPI network (see details below). Possible chains of events were then defined as paths in the PPI network connecting the protein product of the possible cis-gene intermediaries to the plasma protein whose protein level was affected. Under the assumption that the shortest path is also the most likely path, we calculated the statistical significance of each path by a network permutation scheme where the shortest path of each cis-gene intermediary was compared to the shortest path in a set of randomized networks.

For this approach to work, it is important that the random networks are similar to the original PPI network. Hence, they should contain the same number of nodes (proteins) and edges (interactions) as inBio Map. Furthermore, it has been shown that biological networks belong to a class of networks called scale-free networks and that their node degree distribution follow a power-law². Therefore, it is important that the random networks also display this property and in particular, that they follow the same node degree distribution as inBio Map.

Random networks can be generated either by re-wiring the existing network (by pairwise edge swapping) or by building a random network from scratch (*de novo* network generation). However, with the requirement of a conserved node degree distribution, these methods become prohibitively slow (generating 1,000,000 random networks would take months-years even on a multicore supercomputer). Previous approaches to randomization of the complete protein-protein interactome have overcome this limitation by re-wiring the existing network but only swapping edges between certain subsets of nodes in the network (e.g. nodes with the same node degree)³.

We developed an algorithm that creates *de novo* random networks with a nearly (99.97 %) conserved node degree distribution of inBio Map. Since the networks are randomly generated from scratch, they will be completely independent of the original PPI network but they will still maintain the required properties.

Our algorithm exploits the fact that a random network with a conserved node degree distribution can be generated relatively fast, if the network is allowed to contain multi-edges and self-edges (loops). The multi-edges and loops are subsequently removed and the lack of edges is accounted for by generating a new network filling in the missing edges. This procedure is repeated a number of times until the random network is sufficiently similar to the original network. The algorithm was implemented using the igraph package⁴ for Python (<u>https://igraph.org/python/</u>) and is outlined below:

Iterative refinement of *de novo* generated random networks:

- 1. Calculate the node degree distribution of the original network (N_O)
- 2. Generate a random network (N_A) with the same node degree distribution as N_O
- 3. Remove multi-edges and loops from N_A
- 4. Iterate until the stop criterion is met:
 - a. Calculate the difference between the node degree distribution of the random network (N_A) and the original network (N_O)
 - b. Generate a new random network (N_B) with node degree distribution equal to the difference between N_A and N_O just calculated
 - c. Merge the two random networks N_A and N_B
 - d. Remove multi-edges and loops from the merged network this is now the new random network (N_A)

After each iteration of the algorithm, the distance between the original network (N_O) and the random network (N_A) was evaluated. The distance was defined as the sum of all pairwise absolute differences in node degree between all nodes (n) in the original network (N_O) and the random network (N_A):

distance =
$$\sum_{n} | degree(n_A) - degree(n_O) |$$

The stop criterion was defined as "the distance being less than or equal to 100" or if "the distance did not change for 5 consecutive iterations".

The algorithm was applied to the high confidence subset of the PPI network inBio Map (version 2018_04_05), defined by the edges with a confidence score >= 0.117. Unspecific post-translational modifications (PTMs), such as the attachment of ubiquitin to target proteins, are often picked up by the methods used to detect protein-protein interactions. To avoid a bias from PTMs in our analysis a few proteins often associated with PTMs were left out from the analysis (UBB, UBC, UBA52, RPS27A, SUMO1-4). The final PPI network used in the analysis contained 13,033 proteins (nodes) and 147,882 high confidence interactions (edges). The total permutation time, generating 1,000,000 random networks using 20 CPU cores, was 6.7 hours.

The average distance (as defined above) between the random networks and inBio Map was 83.1 with a standard deviation of 10.6. This means that the node degree distribution of the random networks was highly conserved and on average 99.97% identical to the node degree distribution of inBio Map.

Significance of shortest paths

The purpose of generating random networks was to evaluate the significance of the shortest paths between the cis-gene intermediaries and the plasma proteins for each of the trans-pQTL signals. Thus, for each potential cis-gene intermediary and the plasma protein, the shortest path was also calculated in each of the 1,000,000 random networks and the significance of the observed shortest

path was then calculated as the fraction of random networks with a shortest path, shorter than or equal to the observed shortest path in inBio Map. As multiple paths were tested for each transpQTL signal, the Benjamini–Hochberg procedure was used to correct for multiple testing, yielding FDR controlled q-values.

Calculation of the shortest paths was actually more time-consuming than the permutation of the network, and the running time of the whole PPI network analysis was 37.3 hours using 28 CPU cores.

The results of the PPI network analysis are available in Supplementary Table 3.

Text mining association network

The inBio Map PPI network consists of experimentally observed physical interactions between proteins. Some interactions between proteins (e.g. protein phosphorylation by a kinase) are very short-lived and may not be picked up by some of the methods (especially co-purification based methods) used to detect physical interactions between proteins but they might still be relevant. Some of these interactions are described in the scientific literature and can be picked up by text mining.

Therefore, as an alternative to the PPI network, we also created a network of statistically significant associations between proteins identified by text mining (TM network). We used the text mining resource inBio KnowTM (<u>https://www.intomics.com/technology/#text-mining</u>) to identify proteins co-mentioned in PubMed abstracts. inBio Know is based on highly curated protein synonyms for the human proteome and provides a statistical framework to identify proteins that are significantly associated in the scientific literature. Briefly, based on the manually curated protein synonyms, the occurrence of each protein from Uniprot was determined in PubMed abstracts (PubMed download date: 2018_05_03). Only human proteins with the status "reviewed" in Uniprot were considered. The pairwise co-occurrence between proteins was determined and Fisher's exact test was used to calculate the significance of the association. A conservative, multiple-testing corrected *p*-value cutoff of 10^{-8} was applied to obtain significant associations between proteins.

A TM network was then created by connecting proteins that were significantly associated in PubMed abstracts. The TM network contained 14,635 proteins (nodes) and 193,777 associations (edges).

The algorithm described for the PPI network above was applied to the TM network in order to find significant paths between the potential cis-gene intermediaries and the plasma proteins in the text mining associations. Using the same stop criterion as above the total running time for the analysis was 87.9 hours using 28 CPU cores. Due to the topology of the TM network, the algorithm did not converge as fast as for the PPI network. This was also reflected in the average distance of the random networks, which was 739.0 with a standard deviation of 41.7. The distance could be reduced at the expense of longer running times but since the degree distribution of the random networks was still 99.81% identical to the degree distribution of the original TM network, we did not find that necessary.

Finally, we created a combined PPI and TM network consisting of both the protein-protein interactions and the associations identified by text mining simply by merging the two networks

(PPI+TM network). This network contained 16,150 proteins (nodes) and 314,503 interactions (edges). The running time of the network analysis was 126.9 hours using 28 CPU cores. The average distance of the random networks was 370.3 with a standard deviation of 30.5. The degree distribution of the random networks was 99.94% identical with the degree distribution of the original PPI+TM network.

The results of the TM network analysis and the PPI+TM network analysis are both available in Supplementary Table 3.

References

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