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Author(s): Wiklund, Petri; Pekkala, Satu; Autio, Reija; Munukka, Eveliina; Xu, Leiting; Saltevo, Juha; Cheng, Shumei; Kujala, Urho; Alen, Markku; Cheng, Sulin

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Table S3. Correlations between metabolite factors and clinical risk factors

HEAD	TAIL	Correlation coefficient	P-value
BMI	VO2max	-0.493	<0.0001
BMI	Insulin	0.415	<0.001
BMI	HOMA-IR	0.398	<0.001
factor 1	TRIGLY	0.461	<0.0001
factor 1	Insulin	0.457	<0.0001
factor 1	HDL	-0.455	<0.0001
factor 1	HOMA-IR	0.448	<0.0001
factor 1	VLDL	0.412	<0.0001
factor 1	BMI	0.382	<0.0001
factor 1	S-ALAT	0.360	<0.0001
factor 1	SBP	0.300	<0.0001
factor 2	IDL	0.726	<0.0001
factor 2	LDL	0.719	<0.0001
factor 2	VLDL	0.671	<0.0001
factor 2	TRIGLY	0.533	<0.0001
factor 2	SBP	0.290	<0.05
factor 3	IDL	0.311	<0.01
factor 3	LDL	0.240	<0.05
factor 5	Insulin	-0.233	<0.05
factor 7	BMI	-0.297	<0.05
factor 8	TRIGLY	-0.277	<0.05
GLUC	HOMA-IR	0.487	<0.0001
GLUC	Insulin	0.383	<0.001
GLUC	VO2max	-0.294	<0.05
GLUC	BMI	0.266	<0.05
GLUC	TRIGLY	0.259	<0.05
HDL	TRIGLY	-0.519	<0.0001
HDL	VLDL	-0.482	<0.0001
HDL	Insulin	-0.238	<0.05
HDL	VO2max	0.233	<0.05
HDL	BMI	-0.225	<0.05
S-ALAT	Insulin	0.413	<0.001
S-ALAT	HOMA-IR	0.401	<0.001
S-ALAT	BMI	0.316	<0.01
S-ALAT	Waist circumference	0.300	<0.01
S-ALAT	TRIGLY	0.262	<0.05
SBP	DBP	0.615	<0.0001
SBP	TRIGLY	0.366	<0.001
SBP	VLDL	0.365	<0.001
SBP	LDL	0.355	<0.01
SBP	IDL	0.290	<0.01
SBP	GLUC	0.285	<0.05
SBP	BMI	0.248	<0.05
TRIGLY	LDL	0.597	<0.0001

TRIGLY	IDL	0.522	<0.0001
TRIGLY	Insulin	0.437	<0.0001
TRIGLY	HOMA-IR	0.434	<0.0001
TRIGLY	VO2max	-0.232	<0.05
Waist circumference	BMI	0.707	<0.0001
Waist circumference	VO2max	-0.356	<0.01
Waist circumference	Insulin	0.323	<0.01
Waist circumference	HOMA-IR	0.318	<0.01
VLDL	LDL	0.716	<0.0001
VLDL	IDL	0.662	<0.0001
VLDL	Insulin	0.317	<0.01
VLDL	HOMA-IR	0.305	<0.01
VO2max	HOMA-IR	-0.377	<0.001
VO2max	Insulin	-0.331	<0.01
