File S2: Graphical overview of associations between the VO2peak and plasma metabolites

Partial correlations: Direction and strength of bivariate associations between the VO2peak and each metabolites, expressed as partial Pearson correlation coefficients with 95% confidence intervals of Van der Waerden-transformed variables.

Contribution to PLS-model: Importance of contribution of each metabolite to the multivariate association in the obtained PLS models with the VO2peak, expressed as the negative logarithm of relative frequencies of permutation-obtained rank products below measured rank products.

F*	Females adjusted for age and menopausal status
F**	Females adjusted for age, menopausal status and the 21 phenotypical and clinical parameters
M*	Males adjusted for age
M**	Males adjusted for age and the 21 phenotypical and clinical parameters

Major Metabolic Pathways:

Lipid metabolism   Amino acid metabolism   Xenobiotics and related metabolism

Energy metabolism   Carbohydrate metabolism   Mammalian-microbial cometabolism

Nucleotide metabolism   Cofactors and vitamins metabolism   Unknown