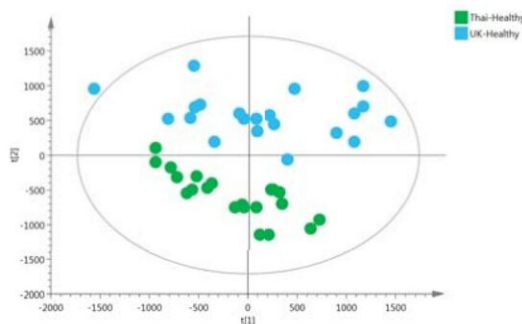


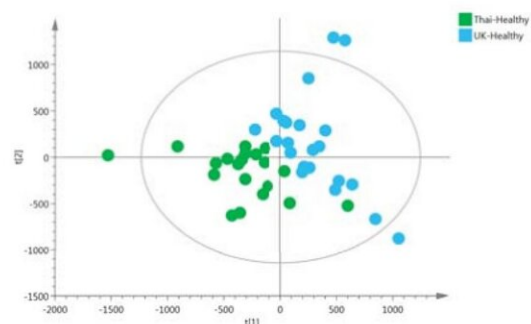
Study identifies potential bile duct cancer biomarkers for urine test

November 16 2021, by Emily Head

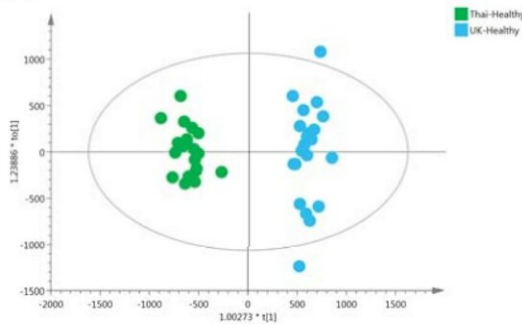
(a)



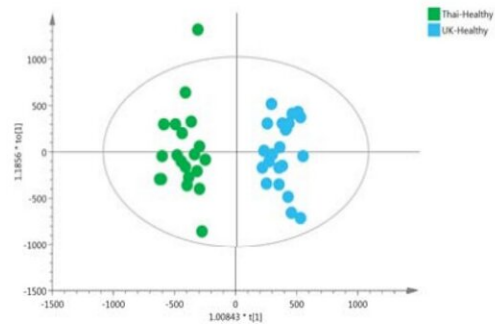
(b)



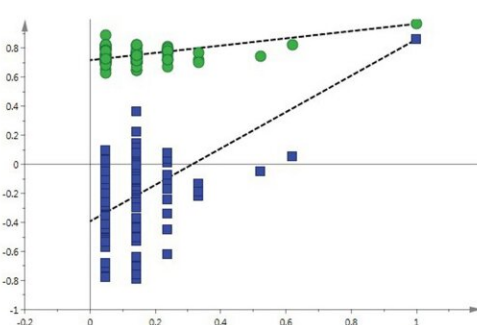
(c)



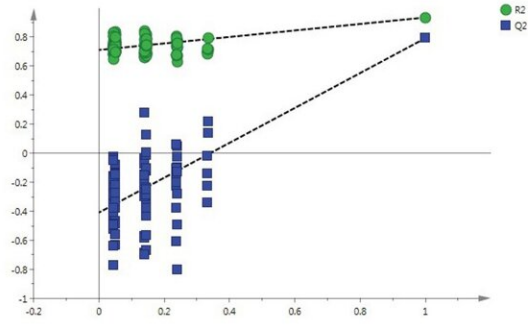
(d)



(e)



(f)



PCA scores plots for (a) positive and (b) negative ion mode data of healthy participants from Thailand and United Kingdom. OPLS-DA scores plots showing group separation for both (c) positive and (d) negative ion mode data and corresponding permutation tests for (e) positive and (f) negative ion mode data. (a) $R^2X = 30\%$ and $Q^2X = 14\%$ from 2 PC model; (b) $R^2X = 26\%$ and $Q^2X = -4\%$ from 2 PC model; (c) $R^2Y = 95\%$, $R^2X = 21\%$ and $Q^2Y = 87\%$, from one predictive and one orthogonal components model; (d) $R^2Y = 93\%$, $R^2X = 17\%$ and $Q^2Y = 79\%$, from one predictive and one orthogonal components model; (e) Permutation test—positive mode CV-ANOVA =

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