

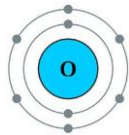
A guideline for appropriate estimates of carbon use efficiency with the ^{18}O method

POTENTIAL ISSUES

Impurities in DNA extractions



Not enough oxygen in the sample



Several equations in bibliography

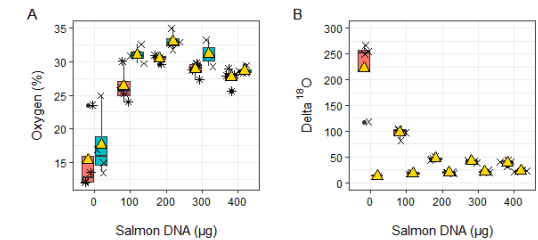
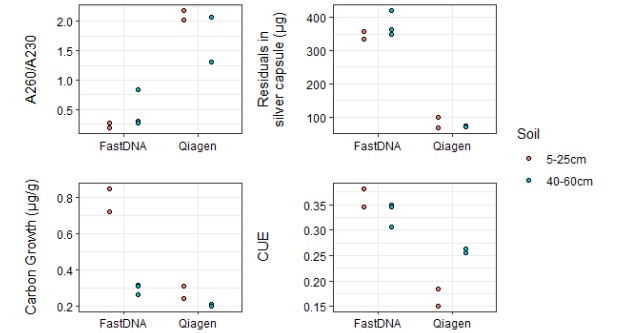


EXPLORING SOLUTIONS

Find the ideal extraction kit

Oxygen Spike test

Equation revision



$$A_{DNA}^{18} = \frac{(O_{salmon} + O_{DNA}) * A_{total}^{18} - O_{salmon} * A_{salmon}^{18}}{O_{DNA}}$$

$$\frac{DNA_{prod}}{DNA_T} = turnover$$

$$C_{growth} = Microbial\ C * turnover * t^{-1}$$

$$CUE = \frac{C_{growth}}{C_{growth} + C_{resp}}$$