

# Methane yield of dairy cows can be predicted from volatile fatty acids in ruminal fluid

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# Method



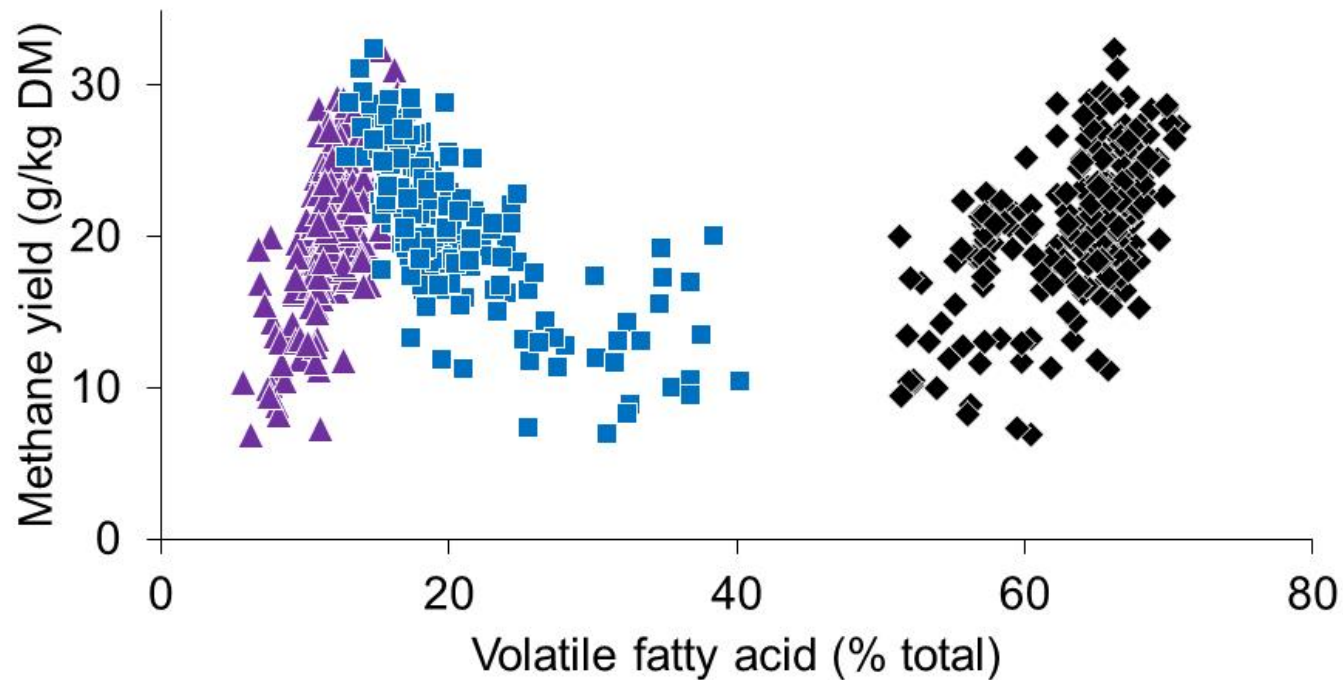
3 to 5 day measurements



2 day measurements

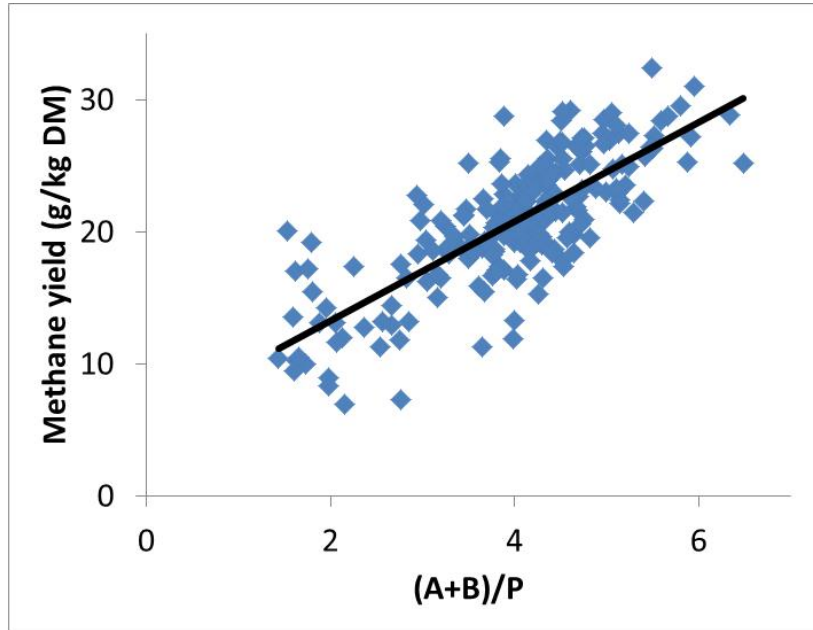
7 experiments, 24 diets, 216 matched records

# Results

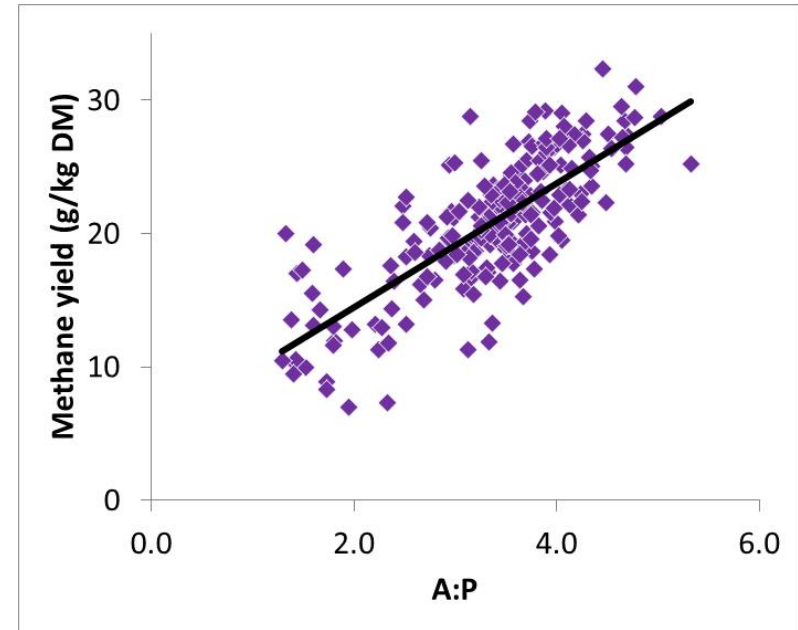


▲ Butyrate    ■ Propionate    ◆ Acetate

# Conclusion



$$3.75 \times (A+B)/P + 5.84, R^2 = 0.60$$
$$\text{RMSEP} = 3.16, \text{LC} = 0.725$$



$$4.64 \times (A/P) + 5.19, R^2 = 0.59$$
$$\text{RMSEP} = 3.20, \text{LC} = 0.716$$

Ruminal VFA may not accurately predict methane yield across all diets