

Multi-population genome-wide association study for de novo synthesis of milk fatty acids

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Why GWAS for milk composition?

Milk is very nutritious..... but cheap



5x the price of



(Netto, yesterday)

High-end markets!

- Farmers can specialize on high-margin products
 - Mineral-milk (ex, Zinc-rich milk for infant formula)
 - Specific fatty acid Milk (ex, Omega-3)
 - Milk with specific protein variant (ex, A2 β -CN for example)

- Genetic screening if genomic regions known

GWAS

- Small data = low power
- Combine data from different population?

Danish
600

Dutch
1600

Chinese
700

Results → **Poster** 😊