

# Master Project topic 1

**If you are into laboratory work with copepods**

## **Effect of food and temperature on lipid accumulation of *Calanus***

The Sub-arctic and polar copepods of the genus *Calanus* have the life history strategy accumulate large amount of lipids before they enter diapause. This lipid accumulation is highly dependent on diatoms.

Experiments have shown that single food types will give very different amount of lipids. But how will they react to mixed food?

The experiments will test the lipid accumulation of the copepod *Calanus finmarchicus* on **mixed diets** preferably at **2 different temperatures**.

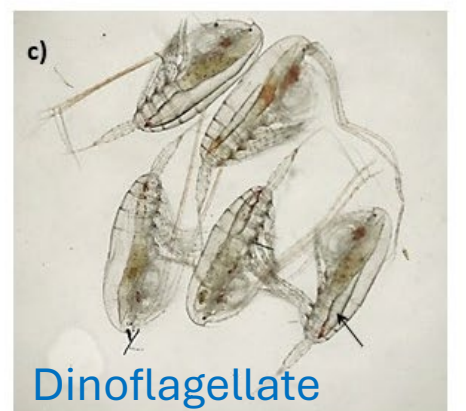
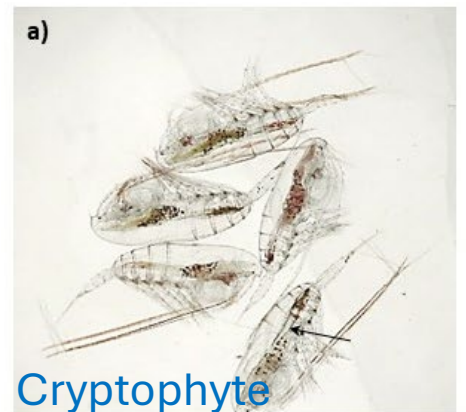
The final experimental setup and focus will be finalized with the student – based on their interest.

Possibilities:

- Feeding experiments testing selection – calculating carbon budgets
- Lipid analysis – looking at lipid composition of the oil sac
- Mortality rates
- Respiration rates
- And more.... to be discussed

Start after Easter (Copepods have to be transported from Greenland).

*Copepods grown on pure diets of :*



Contact: Sigrun Jonasdottir  
sjo@aqua.dtu.dk