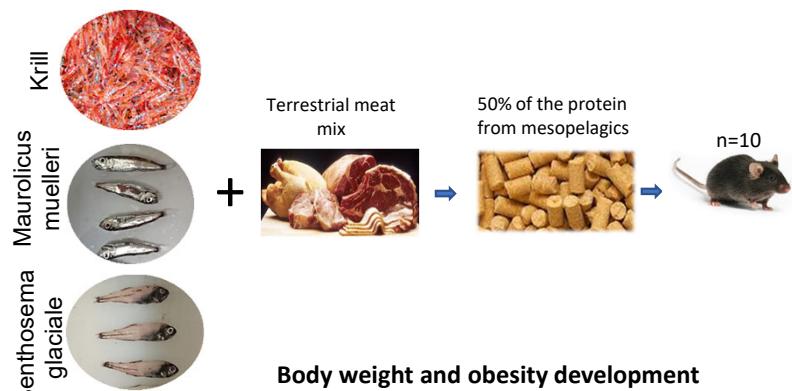


Health effects, nutrients and undesirables availability from consumption of mesopelagic species in C57BL/6J mouse

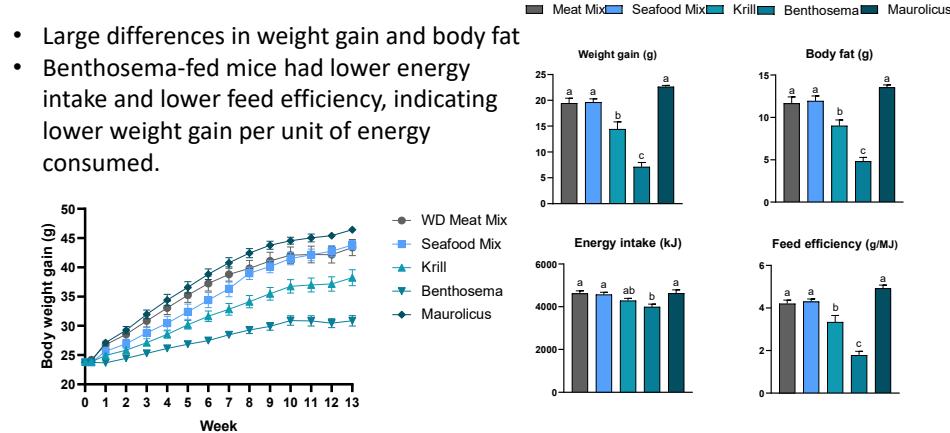
Atabak M. Azad, Lene S. Myrmel, Martin Wiech, Even Fjære, Ole Jakob Nøstbakken and Lise Madsen

Institute of Marine Research, Bergen, Norway
Email: ata@hi.no

Mesopelagic species are suggested as an under-exploited food source, containing high levels of omega3 fatty acids, vitamins and minerals but also some undesirables.

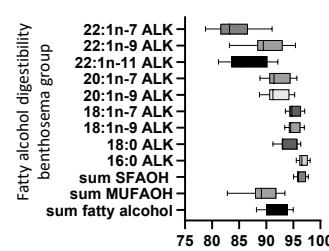
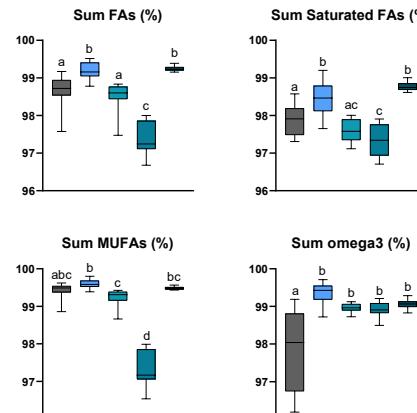


Body weight and obesity development



Fat digestibility

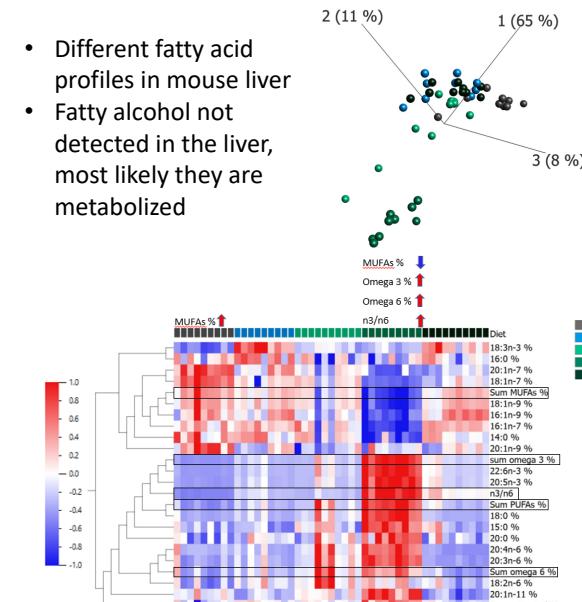
- Lower fat digestibility in benthosema
- >85% digestibility of fatty alcohol



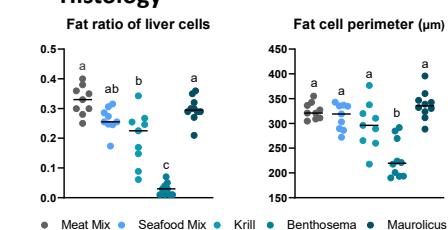
Conclusions

- Benthosema induced lowest weight gain and obesity development with a more healthy fatty acid profile in the liver.
- Maurolicus induced high weight gain and obesity similar to seafood mix and with similar fatty acid composition and krill was in-between.

Fatty acid profile in mouse liver samples



Histology



Funding

