Published work from NTNU on NFR project New Marine Feed Resources (17264/S40)

Master thesis related to the project

Bell, Norun Reppe 2008. Rauåtemel som fôrråstoff til laks, med spesielt fokus på fett- og fettsyresammensetning. MSc-thesis in the Masterprogram "Marine Resources and Aquaculture", Dept. of Biology, Norwegian University of Science and Technology, Trondheim. 53 pp.

Halvorsen, Hilde 2008. Rauåtemel som förråstoff til laks, med spesielt fokus på protein- og aminosyresammensetning. MSc-thesis in the Masterprogram "Marine Resources and Aquaculture", Dept. of Biology, Norwegian University of Science and Technology, Trondheim. 40 pp.

Presentations at conferences

Bell, N., Halvorsen, H., Hillestad, M., Galloway, T.G., Rustad, T., Overrein, I. and Kjørsvik, E. (2008). Replacement of fish meal with Calanus meal in diets for Atlantic salmon (*Salmo salar*), effects on growth and utilisation of proteins, lipids and astaxanthin. Oral presentation at the conference Aquaculture Europe 2008, European Aquaculture Society. Krakow, 16-18 September 2008.

Bantle, M., Bergvik, M. and Rustad, T. (2009). Freezing time and its influence on enzymatic activities and lipid composition in *Calanus finmarchicus*. Oral presentation at the 3rd Joint Trans-Atlantic Fisheries Technology Conference; 2009-09-15 - 2009-09-28, NTNU.

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Rustad, Turid; Bergvik, Maria. Lipid class changes and lipid oxidation in Calanus finmarchicus during Vacuum, Atmospheric and Nitrogen freeze drying. International Drying Symposium; 2010-10-03 - 2010-10-06, NTNU.

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Bantle, M. Calanus finmarchicus as basis for development of formulated feedstock for Aquaculture - processing and drying. NTNU/SINTEF: The Dewatering Laboratory. October 8th 2007, Trondheim, Norway.

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Kjørsvik, E., Bell, N., Halvorsen, H., Rustad, T., Overrein, I., Galloway, T.G., and Hillestad, M. (2008). Replacement of fish meal with Calanus meal in diets for Atlantic salmon (Salmo salar), effects on growth and utilisation of proteins, lipids and astaxanthin. Manuskript.

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Bantle, M., Eikevik, T.M., Brennvall, J.E. A novel method for simultaneous and continuous determination of thermal properties during phase transition applied to *Calanus finmarchicus*. Submitted to Journal of Food Science.

Bantle, M., Eikevik, T.M. (2010). Ultrasonic assisted Atmospheric Freeze Drying. Proceedings of the International Drying Symposium 2010, October 3rd to 6th 2010, Magdeburg, Germany. (In prepp).

Bantle, M., Bergvik M. Lipid Oxidation in Freeze Drying under Nitrogen atmosphere. Proceedings of the International Drying Symposium 2010, October 3rd to 6th 2010, Magdeburg, Germany. (In prepp).

Planned publications

Rustad, T., et. al. Enzymatic activity in Calanus (possibly two publications)

Bergvik, M., et al., Phospholipase activity in Calanus finmarchicus

Bergvik, M., et al., Freezing time and the influence on lipid composition in *Calanus finmarchicus*

Bergvik, M., et al., Stability of stored Calanus finmarchicus

Bergvik, M., et al., Lipid class analysis – a methodological comparison

Bantle, M. A general model for Atmospheric Freeze Drying. Drying Technology 2011

Dr. Thesis; will be submitted from Maria Bergvik og Michael Bantle in 2011