

Ernæring og fysiologi for enmagede dyr






Ernæring og fysiologi for enmagede dyr dekker aktuelle tema for hver av artene hest, fjørfe, gris, akvakultur, ulike kjæledyr og pelsdyr. Aktuelle områder er fôrmiddelvurdering, utvikling av nye fôrråvarer, fôrteknologi, produktkvalitet, bærekraftig nasjonal fôrressursutnyttelse, samt produksjons- og miljørelaterte spørsmål.

Innen fagområdet *Ernæring og fysiologi for enmagede dyr* finnes oppgaver som passer for studenter i husdyrfag, økologi og biologi.

Forslag til tema for gradsoppgaver: se side 3.

- Foruten problemstillingene nevnt nedenfor, kan studentene selv oppsøke veilederne og diskutere andre problemstillinger også.

Kontaktpersoner:

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* Se link til oppgavebeskrivelsene på nettsiden «Forslag til gradsoppgaver».

Nutrition and Physiology in Monogastric Animals






Nutrition and Physiology in Monogastric Animals covers relevant areas within horses, poultry, pigs, aquaculture, pet animals and fur animals. Important areas are evaluation of feed, development of new types of feed ingredients, feed technology, produce quality, sustainable use of feed resources and questions related to production and the environment.

Within this area there are thesis proposals suitable for students in animal science, ecology and biology.

Suggested thesis topics: see page 3.

- In addition to the below mentioned topics, students can visit the supervisors and discuss other relevant topics as well.

Contacts:

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* See full information of thesis proposals on the webpage: «Forslag til gradsoppgaver»

Gradsoppgaver i *Ernæring og fysiologi for enmagede dyr*
– Thesis proposals in *Nutrition and Physiology in Monogastric Animals*

- **Ethical and nutritional evaluation of applying vegan food for dogs and cats. Are they more sustainable than traditional foods?**

Contact: Øystein Ahlstrøm

- **Utilization of household leftovers as dog and cat food.**

Contact: Øystein Ahlstrøm

- **Tema Gris (Pigs)**
 - Bruk av norskproduserte råvarer i fôr til gris
 - Hvordan påvirke kjøttkvaliteten hos gris gjennom fôringen
 - Dagsaktuelle problemstillinger knyttet til fôring av smågris, avlspurker eller slaktegris

Contact: Nils Petter Kjos

- **Aquaculture production biology, fish welfare and fillet quality**
 - Dietary effects on production efficiency, fish welfare and fillet quality of Atlantic salmon (fresh water, seawater - mainly connected to ongoing projects). Required: General knowledge about fish biology/physiology, intensive aquaculture production and/or fish nutrition, basic statistics, Excel
 - Biology and biological challenges in industrial aquaculture; e.g. environmental conditions and handling during defined stages in the production cycle. Parameters to focus: production efficiency, fish welfare/fish behavior. Required: General knowledge about fish biology, intensive aquaculture production, basic statistics, Excel
 - Molecular markers that contribute to understand fillet quality deviations of Atlantic salmon. You will be included as a member in a larger international team of scientists but also aquaculture industry (co-supervisor from Vet medicine NMBU/ molecular genetics Nofima and/or CSIC Spain, depending on topic). Required: Background in molecular genetics/immunology and/or biochemistry
 - In-vitro studies with focus on nutritional effects, using Atlantic salmon primary cells. Required: comprehensive lab background/ previous experience with cell culture studies
 - Does accumulation of geosmin and MIB affect the sensory quality of Atlantic salmon farmed in recirculating aquaculture systems (RAS)

Contact: Turid Mørkøre

- **Thesis proposals: Foods of Norway team**
 - Effect of functional feed and fish genotype on growth performance and health
Required background in molecular technology (omics) and nutrition

Contact: Margareth Øverland

- Ekstudering av dietter med gjær; hvordan påvirker prosessen fordøyeligheten i Atlantisk laks

Contact: Jon Øvrum Hansen