

Master projects – Arctic Chronobiology and Physiology group

Chronobiology

- Seasonal control of smoltification in Atlantic salmon (David Hazlerigg, Even Jørgensen)
- Seasonal time-keeping in arctic charr (Shona Wood, Even Jørgensen)
- How are humans affected by year-round arctic lighting? Internet usage as a proxy for activity and its relationship to sleep quality (Shona Wood, David Hazlerigg)
- Comparing activity patterns in reindeer and humans in rural and urban, herded and wild contexts. Reciprocal interactions between reindeer and Saami? (Shona Wood, Nicholas Tyler, David Hazlerigg)
- Seasonal control of appetite and food intake in Svalbard rock ptarmigan or reindeer (Gabriela Wagner)
- Molecular photoperiodic readout in Svalbard rock ptarmigan or reindeer (Gabriela Wagner)
- Circadian timing of food intake in reindeer or Svalbard rock ptarmigan (Gabriela Wagner)
- Seasonal control of metabolism in Svalbard rock ptarmigan (Gabriela Wagner, Lars Folkow)
- Seasonal effects on immune challenge responses in Svalbard rock ptarmigan (Gabriela Wagner, Nord, Lars Folkow)
- Seasonal adaptations of the gastrointestinal tract in reindeer / Svalbard rock ptarmigan (Gabriela Wagner, Monica Sundset)
- Changes in appetite regulating neuropeptides and metabolism during smoltification in Atlantic salmon (Even Jørgensen)

Energetics

- Milk composition and daily mass increase of lactating harp- and hooded seal pups in an unstable environment – the pack ice of the Greenland Sea (Erling Nordøy)
- Validation of the tritiated water method for determining body composition in adult harp seals (*Pagophilus groenlandicus*) (Erling Nordøy)

Temperature regulation

- Role of nasal / respiratory heat exchange for body heat and water conservation in Svalbard ptarmigan (Lars Folkow/Nord)
- Insulating properties of ptarmigan plumage - species/sub-species and seasonal differences (Lars Folkow/Nord)

Diving physiology

- Mitochondrial densities in neurons and glia cells in the hooded seal brain (Lars Folkow)