Are you interested in the Eastern Baltic cod Ecology, Evolution, immunity and microbiome?

We are seeking motivated students with a strong interest in molecular ecology, conservation biology, and evolutionary genomics. Prior experience in bioinformatics is not required, but would be considered an advantage.

1. **Population genomics and immune gene variation**

Project goal: inferring population structure and detecting evolutionary signatures of selection in immune-related genes.

2. **The role of microbiome in hypoxia**

Project goal: The primary aim of the study was to investigate the effect of prolonged mild hypoxia on activity of cod, using accelerometers on the fish. This type of tag logs activity in three dimensions. The fish were kept at either normoxia or mild hypoxia (4.9 mgO2/L) for 6 weeks (12C, 20 PSU).

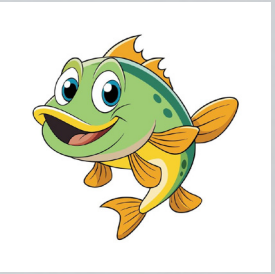
This is a unique opportunity to:

- Gain hands-on experience in bioinformatics and evolutionary data analysis
- Apply cutting-edge methods in molecular ecology and conservation genomics
- Contribute to globally relevant research on the evolutionary processes shaping immune systems and microbiome in wild fish populations

📧 If interested, please write us ☺:

- **maria.cortazar@ebc.uu.se**
- **anssi.laurila@ebc.uu.se**

Start date: Flexible; can start immediately

Place: EBC Uppsala

Project length: 30-60hp