**PROJECT NR 2**

**The effect of increased oxidative stress on salivary glands**

Several pathological conditions increase oxidative stress in salivary glands, like radiation therapy, Sjögren’s syndrome and diabetes, as well as age itself. Here, hyposalivation (dry mouth) is a common symptom. This project aims to unravel the molecular mechanism of oxidative stress in hyposalivation by studying intracellular regulatory signaling pathways in salivary acinar cells. The work will include the use of various molecular biological techniques to evaluate cell cultures and animal salivary gland tissue to study the effect of reactive oxygen species and radiation, respectively.

We require

* A Master’s degree equivalent to a Norwegian Master’s degree in molecular biology or in a field relevant to the research project
* Strong interest in cell and molecular biology
* Experience with cell culturing
* Skills in at least one of the following laboratory methods: qPCR, immunohistochemistry, Ca2+ imaging is strongly recommended

**Contact information**

For further information about the project, please contact: Professor Trude Marie Haug t.m.haug@odont.uio.no