**3rd semester projects medis/medicin (10 ECTS)**

The project is for module 3.4a) Muscle function or 3.4b) nerve function:

Project title: Efficiently induce itch by electrical stimulation

Supervisor(s): Jenny Tigerholm (jvt@hst.aau.dk) and Carsten Dahl Mørch (cdahl@hst.aau.dk)

Background: Itch is a sensation that causes the desire to scratch, which during healthy conditions, has a protective function. During pathological conditions, the itch sensation may be enhanced, and patients often feel as if insects were crawling all over them, and they cannot stop scratching. The excessive scratching does not only lead to skin injury but also severe psychological stress. The research field of itch is small, and there is a strong need for understanding itch fibers' basic properties.

Aim of Project: The aim is to evaluate a new protocol to induce itch in healthy controls by electrical stimulation. If itch could be effectively induced by electrical stimulation, this would generate a useful tool for studying itch in healthy subjects.

Applied methods: Cutaneous electrical stimulation, which means that a small electrical current will be applied on the skin in order to activate nerve fibers.

Number of groups that can be assigned to this project: 1