1) a title 2) about 7 lines of text describing the aim and method of the project. 3) the name of supervisor(s).

A purple and green light

Description automatically generated

**How limited information can lead to large-scale wound healing**

When you get a papercut, your cells quickly organize to close the wound, requiring complex coordination and cooperation.

In this project, you will be looking at cutting edge (pun intended) biomechanics. Ongoing research suggests a link between local distribution of proteins and global cellular motion: Using computer vision and some fundamental statistics, your job is to develop a method to analyse the data which consist of cell-imaging and is part of a paper currently in peer review quantifying this exact phenomenon.

Studying how the body heals is a key, and very active, area of research in biophysics, as furthering our knowledge of what drives the movement of cells has implications for everything from cancer treatments to understanding the emergence of life itself.

Some basic coding skills required

Supervisors: Ala Trusina (ala.trusina@nbi.ku.dk) & Jakob Schauser (jakob.schauser@nbi.ku.dk), Biocomplexity