What causes muscles to be weak?

Background
Muscle diseases (= myopathies) are one of the most under-appreciated disorders even though it is affecting more than 1% of the whole population. How do they induce muscle weakness?

The project
You will aim to characterize how muscle cell function is impaired in myopathies using muscle samples from humans/animal models together with advanced imaging technologies.

At the end of this project, you should be able to: (1) handle/process muscle tissue; (2) master state-of-the-art molecular/cell biology techniques; (3) apply unique microscopic techniques; (4) generate and analyze large sets of data; and (5) synthetize the findings by writing a publishable scientific paper. These will help you to become an independent scientist and critical thinker.

The candidate
The project is suitable for a motivated and engaged student (bachelor or master student) within the field of medicine, human physiology, human biology, molecular biomedicine or equivalent.

Place of project and contact information
You will join a dynamic and stimulating group and become a member of the Xlab at the Department of Biomedical Sciences located on the 2nd floor of the Maersk Tower. For more information, please contact Associate Professor Julien Ochala.