

Zoophysiology Seminar

Friday, 9/10, 13.00–14.00, 1130-123

Ditte Skovaa Andersen

Section for Cell and Neurobiology

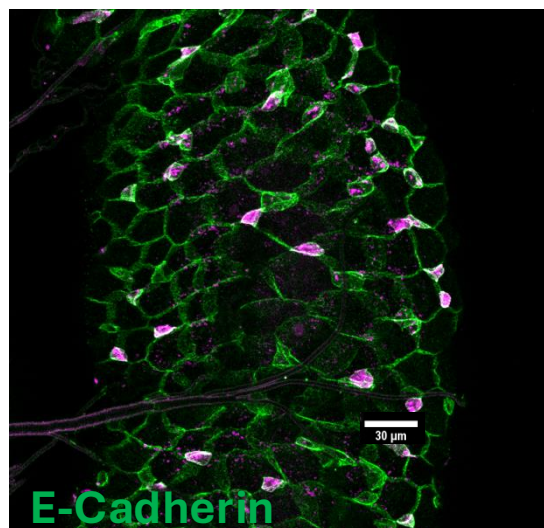
Department of Biology

University of Biology, DK



Decoding the cellular dynamics of tissue homeostasis, plasticity and repair

Adult stem cells must balance self-renewal with the production of differentiated cells to maintain tissue homeostasis while adapting to changing physiological demands. Using the *Drosophila* gut, my team combines genetics and live imaging to uncover the mechanisms that control intestinal stem cell (ISC) behaviour during homeostasis, regeneration, and adaptive growth. I will discuss our work revealing the molecular mechanism underpinning nutrient-dependent tissue resizing, and how dynamic interactions between ISCs and their niche guide stem cell migration during early regeneration and ensure the restoration of spatially organized growth patterns as tissues recover from injury.



E-Cadherin

Intestinal stem cells