Effect of pH-shift processing on *in vitro* digestibility and Caco-2 cell bioavailability of sea lettuce proteins

Results

Background/introduction/summary

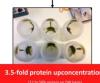
WConsumption of alternative protein sources is forecasted to grow by an annual rate of 9 % until 2054! [1]

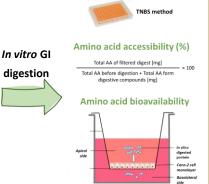
VSeaweed is a promising protein source, but natural protein level still relatively low, calling for protein concentrating techniques...also, the nutritional quality of seaweed proteins can be influenced by the presence of antinutrients e.g. fibers and phenols [2-3]

Hypotheses: Structural disintegration and partial removal of antinutritional factors during the pH-shift processing will increase the digestibility, accessibility, and bioavailability of seaweed proteins

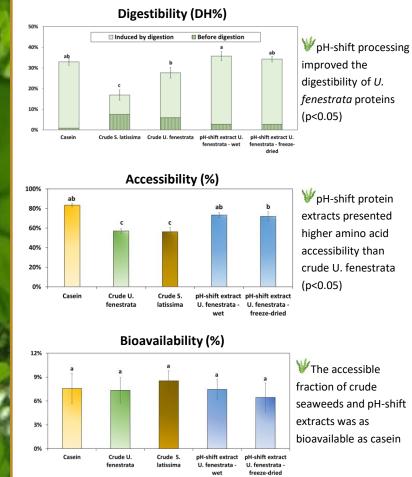
Materials and Methods

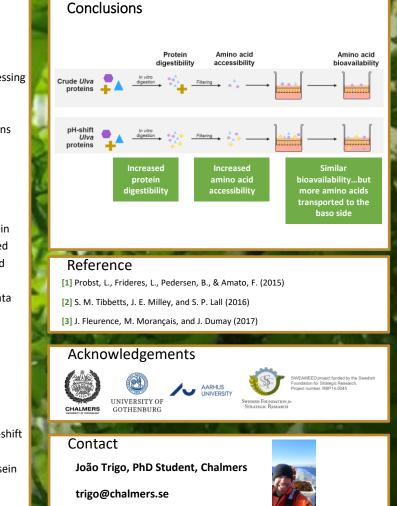






Protein digestibility (DH%)





Chalmers | LTH | RISE | SLU | OrU

Sweden