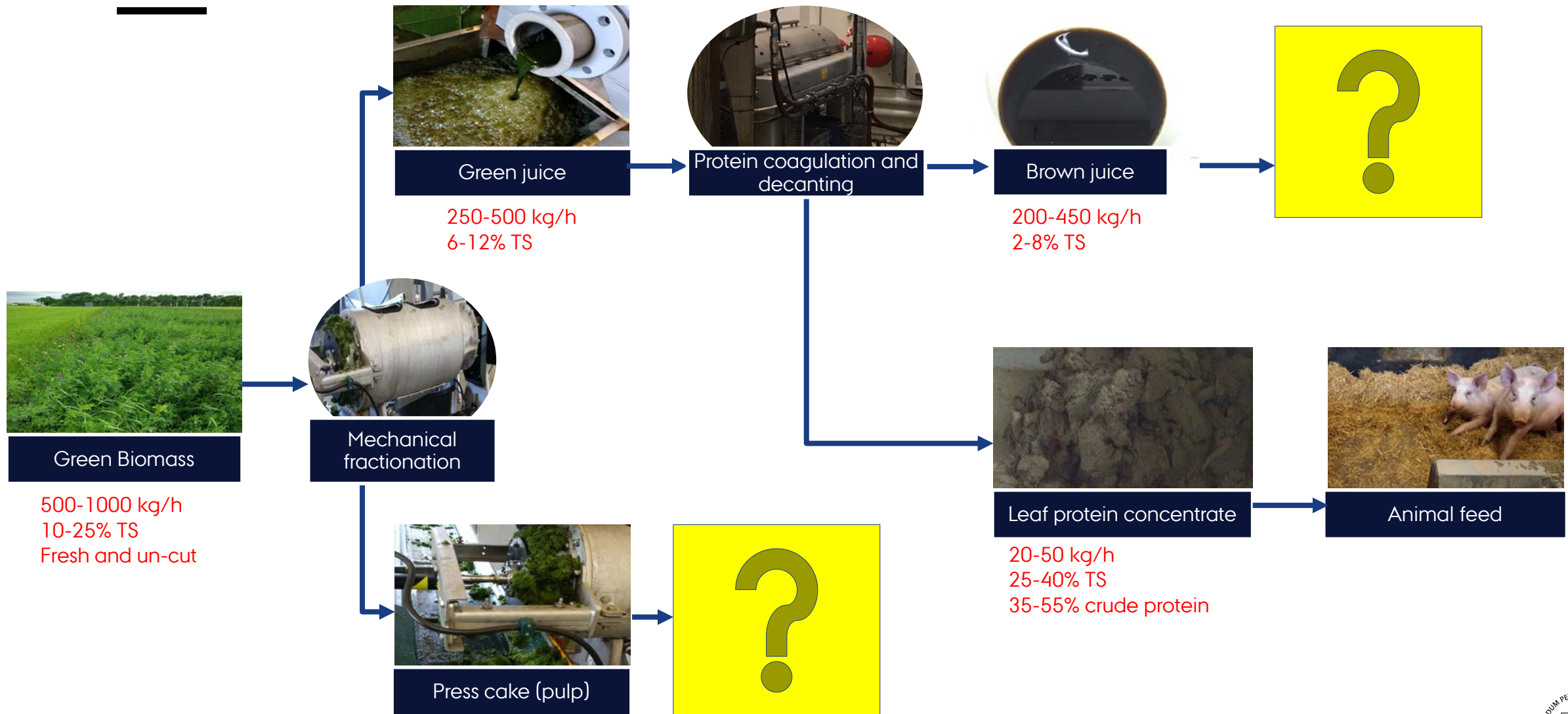


BIOCHEMICAL EXTRACTION OF SUGARS AND AMINO ACIDS FROM GREEN BIOMASS BIOREFINING SIDE STREAMS

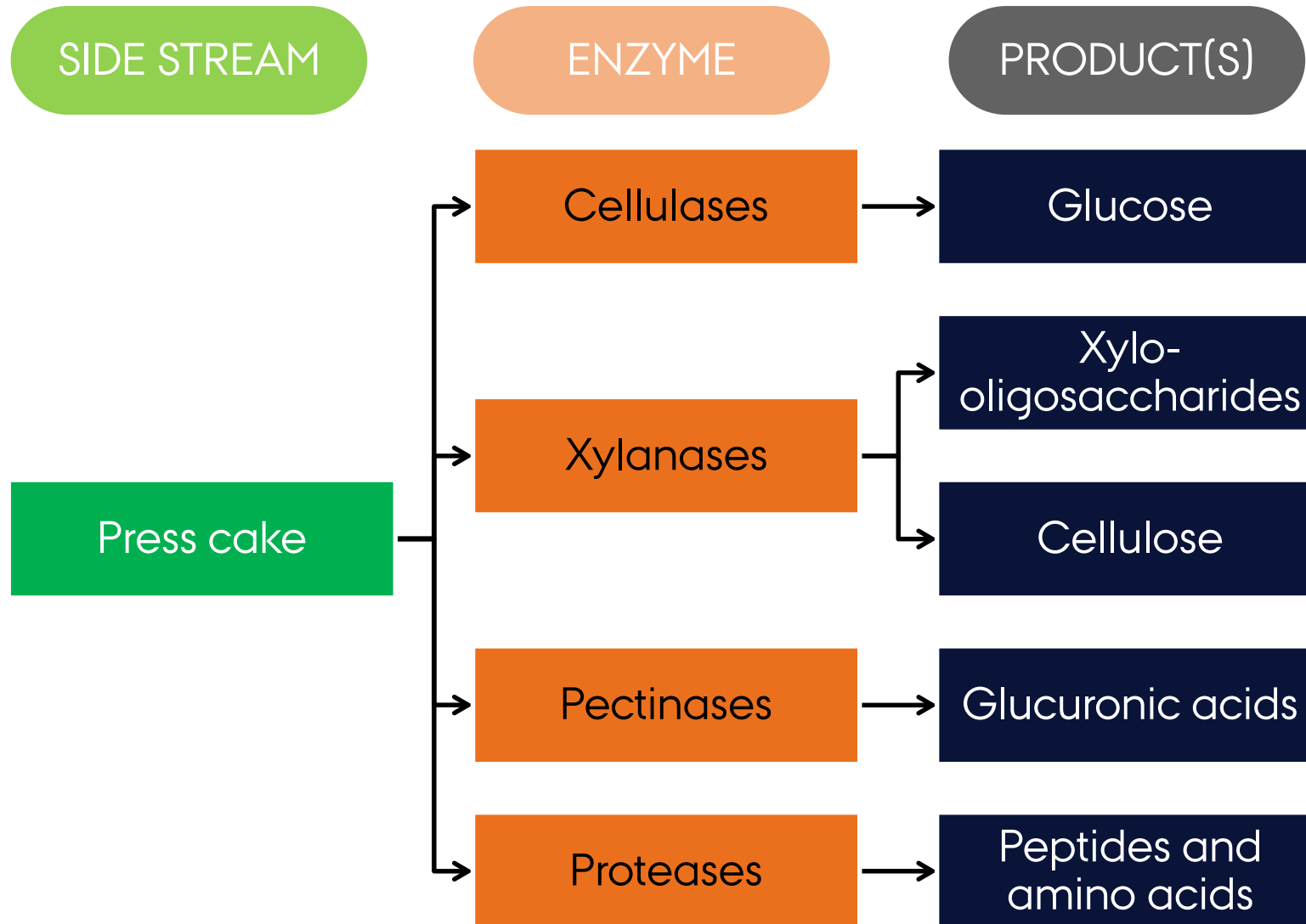
Chia-wen CARMEN HSIEH
Biological and Chemical Engineering
Green Biorefining Group



PROTEIN-FIRST PILOT BIOREFINERY PLANT



ENZYMES USED TO EXTRACT THE CARBOHYDRATES AND PROTEINS



FERMENTATION FEEDSTOCK FOR VALUE-ADDED PRODUCTS

