MBG FOCUS TALK

hosted by Erik Østergaard Jensen

MBG Focus Talks in Molecular Biology

Tuesday 7 March at 11:30 - 12:30

Flakkebjerg, Auditorium (7613-C101)

Associate professor Chuanxin Sun

Department of Plant Biology, Uppsala BioCenter, SLU, Sweden

Channeling carbon flux to different destinations in crops

An important goal of crop biotechnology is to improve crops for producing more and better with less environmental impact. Channeling carbon flux to different destinations in crops is one of the efficient means in meeting the goal. I will present our recent achievements in the research area as small example pieces to explain how to navigate carbon flux to different products for improvement of yield and quality with less environmental impact. We have been working on both monocots and dicots. In monocots we have used barley and rice as model plants to address the questions and in dicots we employed tobacco and Arabidopsis. Several time-saving transient methods in quick analyses of gene and promoter functionality have been developed by us and will also be presented. How to improve carbon metabolic traits in crops particularly in cereals for diverse applications will be discussed.