

Special Issue

Starch Biosynthesis in Crop Plants

Message from the Guest Editor

There are currently unprecedented pressures on global food supplies due to an increasing world population (estimated to be 9.6 billion by 2050). Cereals provide the bulk of the calories in human and livestock diets. Based on current population growth, food production must increase 50% by 2030, and double by 2050 in order to meet projected demands. A fundamental understanding of the process of starch biosynthesis, and its relationship to other metabolic pathways in plants is therefore a critical prerequisite for rational approaches to cereal crop improvement. We welcome novel research, reviews and opinion pieces covering all related topics including fundamental aspects of the starch metabolic pathway in cereal endosperms, studies on source leaf starch metabolism, cereal genetics and improvement, studies on sink metabolism in relation to storage starch synthesis, plant physiology and case-studies from the field in relation to yield improvement or manipulation of starch quality.

Guest Editor

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