

## 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

Dr. Ian J. Tetlow

Department of Molecular and Cellular Biology, College of Biological Science, Summerlee Science Complex, University of Guelph, Guelph, ON N1G2W1, Canada

---

### Deadline for manuscript submissions

closed (31 December 2017)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/9147](https://mdpi.com/si/9147)

*Agronomy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto:agronomy@mdpi.com)

[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)





# Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)



## About the Journal

### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

*Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

---

### Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,  
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), GEOBASE, PubAg, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)