## Special Issue

# Genetics, Genomics and Bioengineering of Improved Legume Crops

#### Message from the Guest Editor

Legumes are hardy plants that can grow in nitrogenpoor soils under harsh environmental conditions, where they provide good sources of food, fiber, and biomass. This Special Issue will address current progress and genetic approaches to:

- Surveying the fitness, geographic distribution, and genomic and phenotypic diversity of wild and domesticated legumes.
- Identifying adaptive phenotypes and genotypes that facilitated the spread of wild species into harsh environments.
- Evaluating the interactions of legumes with nonlegume plants, directly and through the soil microbiome.
- Improving responses to biotic stresses caused by common pathogens and pests.
- Enhancing tolerance to abiotic stresses, such as drought, heat, soil salinity, and cold.
- Improving the quantity, nutritional quality, and postharvest properties of legumes cultivated for forage and seed.
- Improving plant nutrition via biofortification and the genetic engineering of root symbioses with rhizobia and arbuscular mycorrhizal fungi.
- Developing new tools for the genomic analysis and bioengineering of common and less-traditional legume crops.

#### **Guest Editor**

Dr. Mauricio M. Bustos

Department of Biological Sciences, University of Maryland, Baltimore County (UMBC), Baltimore, MD, USA

#### Deadline for manuscript submissions

closed (10 March 2023)



## **Agriculture**

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



mdpi.com/si/110094

Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

mdpi.com/journal/agriculture





## **Agriculture**

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



### **About the Journal**

#### Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

#### Editor-in-Chief

#### Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, 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), PubAg, AGRIS, RePEc, and other databases.

#### **Journal Rank:**

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

