

Special Issue

The Genetic Basis for Seed Quality Traits in Legumes

Message from the Guest Editors

The genetic basis for variation in legume seed components has been investigated over many years, but, with the increasing availability of genomic sequences, the overall control of seed storage product accumulation and the genes underlying many quantitative trait loci associated with variation might be deciphered. Genetic improvement in seed quality traits is being explored, including through modification of starch and protein type and amino acid profile, and through elimination or diminution of antinutrients, such as protease inhibitors, phytate, and vicine/convicine. The exploration of germplasm resources and the discovery and generation of novel allelic variation in candidate genes is underpinning these advances. In this Special Issue, articles (which may be original research papers, hypotheses, perspectives, reviews, or opinions) are invited on the genetics and genomics of seed quality traits in legume/pulse crops, related to nutrition and market preference; health promotion; the control of seed product accumulation, including amino acids and sugars; and the exploration and use of novel germplasm.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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