



Protein Crops: Physiological and Functional Perspectives

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Message from the Guest Editors

Agriculture is facing a huge challenge worldwide to produce enough biomaterials for an increasing population, using limited resources under climate resilience. Protein crops must serve as alternative crops and become outstanding sources of protein to satisfy this future increasing demand of plant protein for food and feed, while meeting nutritional and health benefit requirements. Such crops include various oilseeds and grains, i.e., legumes, pseudocereals, and other crops.

This Research Topic will encompass different aspects of protein crops, such as the functional roles of seed and grain proteins for physiological crop responses to climate resilience; seed and grain physiological improvement; genetic studies and selection programs to explore high yield and/or specific seed quality traits; proteomic and metabolomic studies on protein crops for the identification of accurate biomarkers for breeding programs; integration of bioinformatics methodological approaches and “Big Data” projects in a smart agriculture; germplasm resources and natural biodiversity exploitation; sustainable cultivation and agriculture; high nutritional seed development...





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Message from the Editor-in-Chief

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