

## Special Issue

# Breeding Buckwheat for Nutritional Quality Volume II

### Message from the Guest Editors

Both commonly used species, common buckwheat (*Fagopyrum esculentum* Moench) and Tartary buckwheat (*Fagopyrum tataricum* (L.) Gaertn.), have been traditionally used in human nutrition. Efforts have been made to improve the nutritional value of buckwheat by breeding. Flavonoids and other phenolic substances from buckwheat are important for preserving health. Flavonoids act as antioxidants, lowering cholesterol, and have a positive effect on human blood pressure. When it comes to plants, flavonoids protect vulnerable tissues from UV radiation, oxidative stress, and herbivory. Among buckwheat species and cultivars, there are differences in the content of flavonoids. The concentration of flavonoids depends on genotype, phenological phases, climate conditions, year of growing and harvest, storage, and other factors. Different plant parts accumulate various flavonoid contents. Conditions such as UV radiation, drought, and the addition of minerals increase the accumulation of flavonoids by stimulating their synthesis through the phenylpropanoid pathway.

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### Deadline for manuscript submissions

closed (31 March 2022)



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