Special Issue

Genotype × Environment Interactions in Legume and Fiber Crop Breeding

Message from the Guest Editor

The “genotype-to-market gap” continues to limit the conversion of promising genetic gains into commercially viable cultivars, especially as agriculture faces rising productivity demands and climate instability. Understanding genotype performance across diverse environments has become essential in today’s data‐driven breeding. This Special Issue highlights multidisciplinary approaches and statistical methods that help transition elite germplasm from research plots to the commercial market, ensuring cultivars that are genetically improved, agronomically stable and economically viable. Current advances include optimizing genotype × environment × management interactions through stability analysis, multivariate modeling and high‐throughput phenotyping to better interpret complex traits, enhance yield consistency and improve post‐harvest quality. We welcome research, reviews and case studies integrating breeding, agronomy and advanced statistics, particularly on fiber crops and legumes, focusing on yield stability, seed scalability and processing traits to bridge experimental breeding and commercial application.

Guest Editor

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