



## Handbook of Seed Science and Technology

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# Handbook of Seed Science and Technology

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A reference text with the latest information and research for educators, students, and researchers!

World hunger and malnutrition remain an alarming concern that spurs researchers to develop quality technology. The Handbook of Seed Science and Technology is an extensive reference text for educators, students, practitioners, and researchers that focuses on the underlying mechanisms of seed biology and the impact of powerful biotechnological approaches on world hunger, malnutrition, and consumer preferences. This comprehensive guide provides the latest available research from noted experts pointing out the likely directions of future developments as it presents a wealth of seed biology and technological information.

Seed science is the all-important foundation of plant science study. The Handbook of Seed Science and Technology provides an integrative perspective that takes you through the fundamentals to the latest applications of seed science and technology. This resource provides a complete overview, divided into four sections: Seed Developmental Biology and Biotechnology; Seed Dormancy and Germination; Seed Ecology; and Seed Technology.

The Handbook of Seed Science and Technology examines:

- the molecular control of ovule development
- female gametophyte development
- cytokinins and seed development
- grain number determination in major grain crops
- metabolic engineering of carbohydrate supply in plant reproductive development
- enhancing the nutritive value of seeds by genetic engineering
- the process of accumulation of seed proteins and using biotechnology to improve crops
- synthetic seeds
- dormancy and germination
- hormonal interactions during dormancy release and germination
- photoregulation of seed germination
- seed size
- seed predation
- natural defense mechanisms in seeds
- seed protease inhibitors
- soil seed banks
- the ecophysiological basis of weed seed longevity in the soil
- seed quality testing
- seed vigor and its assessment
- diagnosis of seed-borne pathogens
- seed quality in vegetable crops
- vegetable hybrid seed production
- practical hydration of seeds of tropical crops
- seed technology in plant germplasm

The Handbook of Seed Science and Technology is extensively referenced and packed with tables and diagrams, and makes an essential source for students, educators, researchers, and practitioners in seed

science and technology.

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