

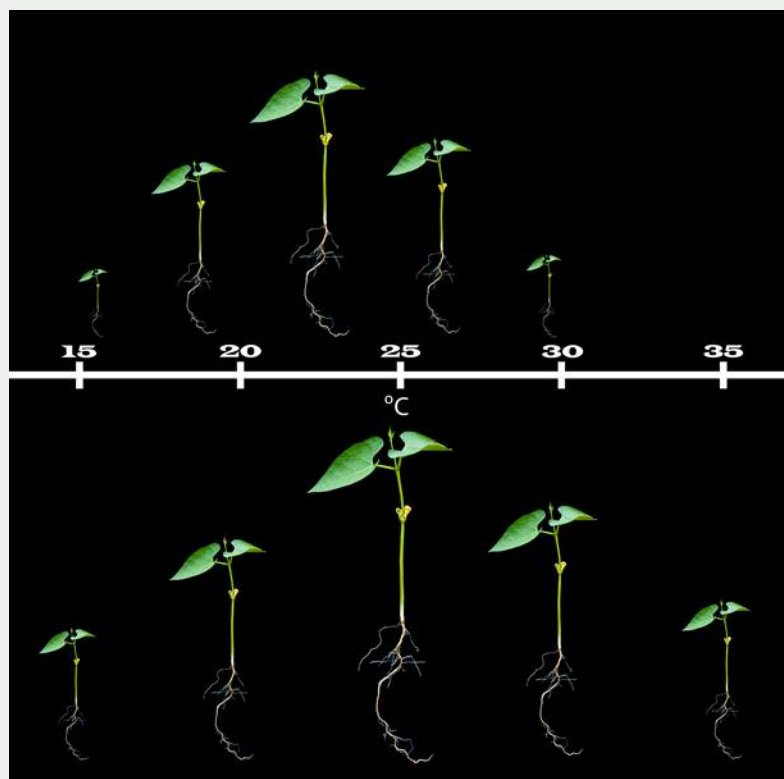
# Seed Technology

*An International Journal Serving Seed Scientists and Technologists*

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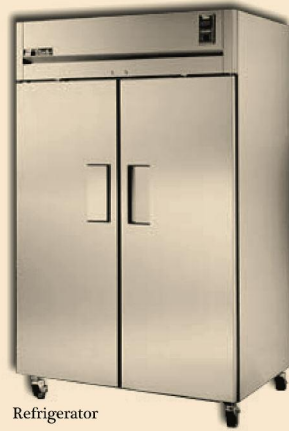


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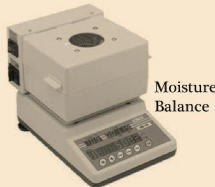
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SOCIETY OF COMMERCIAL SEED TECHNOLOGISTS

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# Seed Technology

**THIS JOURNAL** is co-sponsored by the two predominant organizations in North America with a direct interest in seed technology: the Association of Official Seed Analysts and the Society of Commercial Seed Technologists.

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**AIMS AND SCOPE** – *Seed Technology* is an international journal containing scientific and technological papers in all areas of Seed Science and Technology. The emphasis is on applied and basic research in seed physiology, pathology and biology that may relate to seed development, maturation, germination, dormancy and deterioration. Studies on seed production, sampling, testing, conditioning, distribution and storage are also included. Short communications from seed analysts and technologists are encouraged and will be published as Seed Tech Notes. These notes include new techniques, standardization of laboratory tests and documentation of anatomical and pathological observations of seed and seedling development. The journal also includes timely review articles of seed technology that may relate directly to the seed industry.

**TYPES OF PAPERS** – Original research papers, review articles and Seed Tech Notes are reviewed for publication. All manuscripts should be submitted online. Potential authors should note that there are no page charges and reprints can be ordered directly from the printer at a minimal fee. Refer to the last pages of this volume (Instructions to Authors) for detailed instructions regarding manuscript submissions.

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## EDITORIAL

*THE PRESENT VOLUME includes seven full-length manuscripts and two Seed Tech Notes, as well as abstracts from oral and poster presentations at the 103rd AOSA/SCST annual meeting. Seed Technology continues to attract a diversity of authors addressing various issues related to seed science and technology. Articles in this issue range in subject matter from methods of improving germination, establishment and production of specific crops, to physiology of germination, seed analysis surveys and seed testing apparatus. To authors all around the world, Seed Technology remains an accessible means to publish and share quality articles related to seed science. Seed Technology is committed to publishing applied and basic research in all areas of seed science, such as seed technology, physiology, production, pathology and biology. We invite researchers interested in writing a review on one of those topics to contact the editors with their proposals.*

*The editors acknowledge the continued support by the Journal Committee, and its commitment to publishing two issues of the journal every year. The editors also wish to recognize our many associate editors and peer reviewers for their work on the many articles of this volume. The support of our two sponsoring organizations, the Association of Official Seed Analysts and the Society of Commercial Seed Technologists, is appreciated.*

*Riad Baalbaki  
Editor*

*Susan Alvarez  
Assistant Editor*

COVER ILLUSTRATION: Declining seed vigor due to aging is often manifested as reduced seedling growth, narrowing of the temperature range for optimal development, and an increase in the number of abnormal seedlings. An illustration of aging effects on the same sample of bean (*Phaseolus vulgaris* L.) seeds stored at room temperature and tested for germination at two stages: 6 and 36 months after production. When germinated under constant temperatures, growth of seedlings from aged seeds (top row) was reduced and occurred at a narrower temperature range, with a shift in optimal temperature, compared to seedlings from freshly harvested seeds (bottom row). The size of each seedling represents the average growth (fresh weight) of 100 seedlings, depicted to scale relative to other seedlings. Photo credit: Riad Baalbaki, California Department of Food and Agriculture.

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