

KEY DEADLINES

Extended synopsis and grant application:
17 December 2007

WORKING LANGUAGE

The working language of the symposium is
English.

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Symposium web site

[http://www-pub.iaea.org/MTCD/Meetings/
Announcements.asp?ConfID=167](http://www-pub.iaea.org/MTCD/Meetings/Announcements.asp?ConfID=167)

International Symposium on Induced Mutations in Plants

12–15 August 2008
Vienna, Austria



BACKGROUND

The year 2008 will mark the 80th anniversary of mutation induction in crop plants. Without much knowledge of the biological basis, mutation techniques, based on the artificial treatment of physical and chemical mutagens, have, since the 1920s been widely used in generating a vast amount of genetic variability and in developing about 3000 mutant crop varieties. During the past decade, with the unprecedented development in plant functional genomics, scientific exploration of induced mutations in plants has progressed dramatically from basic research on mutagenesis and the development of advanced genomics based technologies to their unique applications in gene discovery and the development of novel crop traits.

The symposium aims to provide a platform for research scientists and managers from all over the world to present their work and learn about the most recent findings and trends in plant mutation and related fields (see main topics).



MAIN TOPICS

Topics to be addressed at the symposium:

- Molecular genetics and the biology of spontaneous, physical, chemical and transposon-induced mutagenesis.
- High throughput mutation screening techniques, including targeting induced limited lesions in genomes (TILLING) and other reverse genetic strategies.
- New mutation induction techniques, e.g. ion beam implantation and activation of transposition.
- Development, characterization and management of various mutant germplasm collections.
- Development of novel mutant traits and their application in crop breeding.
- Mutational analysis and gene discovery of important crop characters (tolerance to abiotic stresses, resistance to diseases and insects, quality and nutritional characters, etc.).
- Socioeconomic impact of widespread mutant varieties.

TARGET AUDIENCE

Scientists working on plant sciences, functional genomics and plant breeding, and managers of both public and private institutions in these fields.

STEERING COMMITTEE

Banerjee, S.K. (India)
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Zhai H.Q. (China)

REGISTRATION AND TRAVEL FUNDS

No registration fee is required. Limited funds are available to assist selected participants from developing countries to attend the symposium. Please see the symposium web site for further details.