



# Maize Transformation Workshop

March 7-10, 2005, Madison, Wisconsin, USA

<http://www.agron.iastate.edu/ptf/Web/mainframe.htm>

## Co-organizers

Kan Wang (Iowa State University)  
Heidi Kaeppler (University of Wisconsin)

## Purpose

As the Plant Genome Project matures, improved technologies for plant transformation to understand the biological functions of genes are becoming essential. This workshop is designed to provide hands-on laboratory experiences in maize transformation for public-sector researchers who are or will be engaging the genetic transformation of maize for research purposes. We will also bring together academic investigators working to enhance transformation efficiency using both cell biology and molecular biology approaches for a mini-symposium during the workshop.

## Sponsors

This workshop is supported in part by the National Science Foundation, Iowa State University and University of Wisconsin-Madison.

## Workshop Content

### Hands-on experiences:

- *Agrobacterium*-mediated transformation
  - Biolistic-mediated transformation
- Embryo dissection and Type II callus culture initiation
  - Transgenic event selection and regeneration
  - Greenhouse care of transgenic and donor plants
- Analysis of transgenic plants and database management

### Mini-symposium:

- Factors involved in gene transfer and integration
  - Factors involved in transgene silencing
- Site-specific recombination for transformation
  - Non-tissue culture plant transformation

## Workshop instructors and speakers

A. Carlson, B. Frame, S. Gelvin, L. Herrera-Estrella, H. Kaeppler, J. Mahoy, M. A. McGill, J. McMurray, T. Nguyen, D. Ow, W. Thompson, F. Torney, K. Wang

## Registration

This workshop is designed to train personnel and assist public research laboratories that are or will be engaging maize transformation activities. Applicants from start-up biotech companies will be considered if space is available. Registration fee and lodging is waived for selected academic participants.

### Application procedure:

1. Send application via e-mail to Dr. Kan Wang ([kanwang@iastate.edu](mailto:kanwang@iastate.edu)). The application should contain: a) a cover letter describing your current research activities and the relevance of maize transformation to your work; b) a complete and up-dated resume; c) a supporting letter (must be sent separately and directly) from the Principle Investigator (PI) who sponsors the trip. The deadline of application is January 31, 2005.
2. The selected participants and their PIs will be notified by February 14, 2005. Upon notification, please response within 5-day indicating you will attend. If you fail to respond in time or decline the participation, we will assign the space to other researchers on the waiting list.

Questions should be directed to Dr. Kan Wang, Plant Transformation Facility, Department of Agronomy, Iowa State University, Ames, Iowa 50011-1010, USA. Tel: 515-294-4429; Fax: 515-294-2299; E-mail: [kanwang@iastate.edu](mailto:kanwang@iastate.edu)