

# Breeding with Molecular Markers

This course will focus on up-to-date strategies for using molecular tools in different breeding schemes and crops. Leading industry and university experts will instruct participants on how, when and what types of molecular markers should be used in breeding programs, including marker-assisted selection, accelerated backcrossing, and quantitative trait loci.

*February 8-9, 2006*

*presented by  
UC Davis Seed Biotechnology Center*

## ***Who should attend?***

This course is designed for professional plant breeders who want to learn when and how molecular tools can be integrated in their breeding programs. It is also an opportunity for breeders who are already using these tools to expand their knowledge of new strategies and technologies and for laboratory personnel to appreciate how the marker data that they generate are applied in breeding programs.



## ***Topics include:***

- Types and availability of molecular markers
- Working with quantitative trait loci
- Marker-assisted selection
  - Using association studies in breeding
  - Effects of population structure on applications of molecular markers
  - Hands-on software demonstrations to analyze traits with molecular markers
- Case studies illustrating the use of markers in breeding

The expanded brochure will be available October 2005. To request a brochure or enroll, please call (530) 754-7333, email [scwebster@ucdavis.edu](mailto:scwebster@ucdavis.edu) or visit us online at <http://sbc.ucdavis.edu>.



Save the Date!

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**EXTENSION**

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