



Marker-assisted breeding

Focusing on the use of molecular markers for efficient crop improvement, this learning module is for use as basic course material or as a self-tutorial, for scientists or advanced students with a solid background in biology, genetics and plant breeding. And whilst it primarily targets professionals with some understanding of molecular markers, the module also incorporates resources to aid those unfamiliar with marker technology.

The module, jointly designed by the CGIAR Generation Challenge Programme (GCP) and Cornell University's Institute of Genomic Diversity (IGD), complements other GCP resources for plant scientists (see overleaf).



<http://www.generationcp.org/mab/>



More resources from GCP...

GCP offers you the following web-based resources free of charge (also available on CD-ROM)

- **Learning materials**
 - o *Genetic resource policies course*: <http://www.generationcp.org/distantpolicies/>
 - o *The McClintock crop bioinformatics course*: <http://mcclintock.generationcp.org>
 - o *Genomics and comparative genomics tutorial*: <http://www.generationcp.org/genomics>
- **Molecular Marker Toolkit (MM Toolkit)**: Want to know the latest available and validated markers? This user-friendly online tool has the answer. GCP's MM Toolkit outlines the state of the art in marker-assisted selection (MAS) for GCP's 19 mandate crops, plus useful tips on further reading. <http://www.generationcp.org/sp5/MM-Toolkit>
- **Project Development Guide (PDG)**: a hands-on tool that walks you through the A-Z of project design, implementation and management. <http://www.generationcp.org/pdg/>

...and a lot more at our Capacity-Building Corner. Do pay us a visit at: <http://www.generationcp.org/sp5>

Under preparation

Learning materials on:

- o Genetic diversity
- o Phenotyping
- o Association genetics