



## Molecular Marker Toolkit (MM Toolkit)

Want to know the latest available and validated markers? This user-friendly online tool is the answer. The MM Toolkit from the CGIAR Generation Challenge Programme (GCP) outlines the state of the art in marker-assisted selection (MAS) for several crops critical for food security (see overleaf), including for all of GCP's 18 mandate crops, plus useful tips on further reading.

The MM Toolkit is primarily for biotechnologists and plant breeders in developing countries. Designed by breeders for breeders, it is a 'living' resource that will be continually updated and improved. As such, and in light of the rapid dynamism of marker technology, we warmly welcome your feedback on improving the Toolkit to ensure that it remains relevant and on track.

<http://www.generationcp.org/sp5/MM-Toolkit>





The MM Toolkit offers marker information on food crops important for food security, starting with, but not limited to GCP's 18 GCP mandate crops. Crops covered thus far are:

*(GCP mandate crops denoted by an asterisk)*

- |                |                        |
|----------------|------------------------|
| 1. barley*     | 11. millet*            |
| 2. beans*      | 12. <i>Musa</i> spp. * |
| 3. cassava*    | 13. pigeonpeas*        |
| 4. chickpeas*  | 14. potatoes*          |
| 5. coconuts*   | 15. rice*              |
| 6. cowpeas*    | 16. sorghum*           |
| 7. faba beans  | 17. sweet potatoes*    |
| 8. groundnuts* | 18. wheat*             |
| 9. lentils*    | 19. yams*              |
| 10. maize*     |                        |

### **More resources from GCP...**

GCP offers you the following web-based learning materials free of charge...

- *Learning materials* (also available on CD-ROM)
  - o Genetic resource policies course
  - o The McClintock crop bioinformatics course
  - o Genomics and comparative genomics tutorial
  - o Marker-assisted breeding module
- *Project Development Guide (PDG)*: an online hands-on tool that walks you through the A-Z of project design, implementation and management.

... 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