Survey on Plant Genetic Resources Training Materials

The plant genetic resources conserved by genebanks (germplasm banks) around the world are the essential raw materials for increasing genetic diversity of our crops and improving our supply of food and other agricultural products. Plant genetic resources include any propagating material (e.g., seeds, bulbs, in vitro cultures) that are of potential value to agriculture or plant science research.

A recent planning workshop in Fort Collins, Colorado, USA addressed the need for updated educational materials for training current and future personnel charged with the long-term conservation and sustainable use of plant genetic resources. This voluntary survey will gather further information from managers and users of plant genetic resources on specific topics and types of learning materials you would find helpful for training employees, educating students, and/or communicating with the public.
This is a 10-question survey that we estimate will take 5 to 10 minutes to complete. Responses will be **anonymous** and will be reported only in aggregate.

Thank you for your assistance.

Pat Byrne  
Colorado State University  

Gayle Volk  
USDA-ARS  
National Laboratory for Genetic Resources Preservation

1. There is a shortage of current, high quality learning materials (e.g. videos, online courses, face-to-face workshops, webinars, etc.) on plant genetic resources.

<table>
<thead>
<tr>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neither agree nor disagree</th>
<th>Disagree</th>
<th>Strongly disagree</th>
<th>Don't Know</th>
<th>N/A</th>
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2. Availability of high quality learning materials on plant genetic resources ...

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<thead>
<tr>
<th>Strongly Agree</th>
<th>Agree</th>
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... would provide information useful to me in my current position

... would help advance my career, e.g., in a future position or for future responsibilities

... would be useful in teaching or providing information to others
3. Please rate the priority of the following topics for development of learning materials for your uses:

<table>
<thead>
<tr>
<th>Topic</th>
<th>High Priority</th>
<th>Medium Priority</th>
<th>Low Priority</th>
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<tbody>
<tr>
<td>General concepts and uses of plant genetic diversity</td>
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<tr>
<td>General concepts for managing plant genebanks</td>
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<td>Virtual tour of USDA and/or other genebanks</td>
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<td>Crop wild relatives</td>
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<td>Plant exploration</td>
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<td>Gap analysis of plant genetic resource collections</td>
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<td>Preservation techniques for seeds and clonal propagules</td>
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<td>Requesting and distributing plant genetic resources</td>
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<td>Acquiring and using information associated with accessions</td>
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<td>Phenotypic evaluation of accessions</td>
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<tr>
<td>Genotypic evaluation of accessions</td>
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<td>Success stories for use of genebank accessions</td>
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<td>Pre-breeding with plant genetic resources</td>
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<td>Regulatory issues, e.g. phytosanitary</td>
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<td>Intellectual property rights/access and benefit sharing</td>
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<td>○</td>
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<td>Other topics (please specify)</td>
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4. Who are the primary audiences you think would benefit from the learning materials mentioned in the previous question? (Choose all that apply)

- Myself
- My Employees/Colleagues
- Genebank personnel
- K-12 students
- Undergraduate students
- Graduate students/postdocs/visiting scientists
- Growers/Commodity groups
- Commercial seed, crop breeding, and crop production companies
- Policy makers
- Seed savers, heirloom seed and fruit organizations
- Gardeners/Plant enthusiasts
- Culinary, restaurant, food industry
- General public
- Other (please specify)

Please specify:
5. For learning resources available free of charge, which formats would be most useful for you and your audiences? (Choose all that apply)

- Short videos on specific topics available online (3-5 minutes)
- Longer videos on broader topics available online (up to 20 minutes)
- Web pages with text/images
- Online lesson modules
- eBook chapters
- Links to other online resources (e.g., Fact Sheets, web pages)
- Webinars
- Podcasts
- Other

6. For learning resources available for a fee, which formats would be most useful for you and your audiences? (Choose all that apply)

- Face-to-face workshops (1-2 days) (non-credit)
- Face-to-face courses (with academic credit)
- Online courses (non-credit)
- Online courses (with academic credit)
- Other
7. What category best describes your current employment situation?

☐ U.S. National Plant Germplasm System (NPGS) affiliated
☐ Government genebank (non NPGS-affiliated)
☐ CGIAR genebank
☐ Academia (higher education)
☐ K-12 education
☐ Private sector
☐ Non-governmental organization
☐ Culinary, restaurant, food industry
☐ Private citizen/gardener/plant enthusiast
☐ Other
8. What is your role in your organization? (Can choose multiple)

☐ Plant genetic resource manager
☐ Plant breeder
☐ Teacher
☐ Researcher
☐ Administrator
☐ Support staff
☐ Student
☐ Information manager
☐ Other

9. What is your geographic location?

☐ USA/Canada
☐ Latin America
☐ Europe
☐ North Africa/Middle East
☐ Sub-Saharan Africa
☐ Asia
☐ Oceania (including Australia and New Zealand)

10. Please share any other ideas you have for developing learning materials for plant
Thank you for completing this survey.

If you are interested in receiving results of this survey and updates on plant genebank training resources please click [here](https://colostate.az1.qualtrics.com/WRQualtricsControlPanel/Ajax.php) to provide your contact information.

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