

GPZ Working Group on Genetic Resources announces workshop on

# Activating plant genetic resources in the crosshairs of plant breeding

Date 5. - 6. July 2023

Venue Lecture hall at the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)  
Corrensstraße 3  
06466 Seeland OT Gatersleben



Agricultural production is at a crossroads. A profound transformation is required to address manifold challenges including the increasing demand for food and feed, the quest for renewable resources, and the loss of biodiversity. At the same time agriculture needs to cope with the vagaries of climate change. However, transformation of agricultural production systems is contingent on innovations in the field of agroecology, which describes a dynamic, transdisciplinary concept including multiple stakeholders. Plant genetic resources will be indispensable to spark innovations to increase agrobiodiversity, enhance sustainability of production systems, strengthen the resilience of crops and warrant sufficient yields to ensure food security. To reach these goals informed access to collections needs to be facilitated by collating together information at the genetic, biochemical and phenotypic levels in a systematic fashion and by combining both established and innovative approaches. The focus of *Ex-situ* collections needs to be extended from the acquisition and conservation of biological material to becoming information hubs that collect and provide digital information to help predict phenotypic performance.

Against this backdrop we invite colleagues from research, plant breeding and related governmental and non-governmental institutions to this workshop. It will provide a forum to review recent developments and identify future potentials regarding

- conservation management including access and benefit sharing,
- advances in the genetic and phenotypic characterization,
- the valorization of Plant Genetic Resources (PRG) for research and breeding and
- data curation and biodiversity informatics.

## Outline of planned Sessions

**Access and Benefit Sharing** - will highlight recent developments regarding legislation on plant genetic resources

**Conservation management** - will cover topics related to collection activities, *in-situ*, *ex-situ*, on-farm and the digitalization of collections

**Taxonomy and Characterization** - will present a forum to report on new findings regarding taxonomy, phylogenetic studies, phenotyping, evaluation, trait mapping.

**Activation of PGR for breeding and utilization** - will highlight recent developments regarding genomic prediction, pre-breeding, evolutionary breeding concepts and the re-introduction of amateur varieties.

**Digitalization and information management** – will highlight feature new developments in the field of biodiversity informatics, including databases and web portals.

## Important Dates

online registration (TBA): 80 Euros for non-GPZ members, 60 Euros for GPZ-members, 40 Euros for students.

abstract submission deadline: 27.05.2023

presentation notification: 19.06.2023

## Organizers

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## Contact

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## Website

TBA