



Acronym AGENT

Full title Activated GEnebank NeTwork

Programme Horizon 2020 / SFS-28-2018-2019-2020 - Genetic resources and pre-breeding communities / H2020-SFS-2019-2 - Adding value to plant Genetic Resources (GenRes)

Contract Number 862613

Abstract While first gene banks to preserve the genetic diversity of crops for future generations were established as early as the mid-1920s, a total of about 7.4 million accessions are stored in more than 1,750 gene banks across the world today. However, as procedures and standards for managing the material differ in each country, the true potential of the stored resources for breeding and research often remains unknown.

AGENT ('Activated GEnebank NeTwork') aims to unlock the full potential of the biological material stored in gene banks around the globe by introducing a new international standard and an open digital infrastructure for the management of plant genetic resources. Targeting a better integration of existing genetic material into modern breeding programmes, the project will make an important contribution to global food security and the adaption of staple food crops to changing climatic conditions worldwide. The AGENT project's objectives will be exemplified using barley and wheat, but the generated data management processes could be applied to other crop collections in the future.

Duration 60 months (01/05/2020 - 30/04/2025)

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- Partners**
- IPK - Leibniz Institute of Plant Genetics and Crop Plant Research, Germany
 - VIR - Federal Research Center N. I. Vavilov All-Russian Institute of Plant Genetic Resources, Russia
 - IHAR-PIB - Plant Breeding and Acclimatization Institute - National Research Institute, Poland
 - IPGR-Sadovo - Institute of Plant Genetic Resources, Bulgaria
 - CRI - The Crop Research Institute, Czech Republic
 - TAU - Tel Aviv University, Israel
 - ATK - Centre for Agricultural Research, Hungary
 - INIA - The National Institute for Agricultural and Food Research and Technology, Spain
 - WR - Stichting Wageningen Research, The Netherlands
 - NARDI-Fundulea - National Agricultural Research and Development Institute, Romania
 - NPPC - The National Agricultural and Food Centre, Slovak Republic
 - CREA-CI - Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Italy
 - UZH - University of Zürich, Switzerland
 - EURICE - European Research and Project Office GmbH, Germany
 - ICARDA - International Centre for Agricultural Research in the Dry Areas, Lebanon
 - INRAE - Institut national de recherche pour l'agriculture, l'alimentation et l'environnement, France
 - RBGK - Royal Botanic Gardens Kew, United Kingdom
 - IPRGI - International Plant Genetic Resources Institute, Italy
 - WBF-Agroscope - Federal Department of Economic Affairs, Education and Research, Switzerland

Website www.agent-project.eu