



“Successful Workshop on plant genetic resources and New Breeding Techniques”

HARNESSTOM partners from IBMCP (CSIC-UPV) and Fundación Grupo Cajamar organized in collaboration with the Interdisciplinary Technology Platform AGROFOR a workshop entitled Genetic Resources and New Breeding Techniques (NBT) as a forum to discuss the importance of genetic resources and the possibilities of NGTs to solve the problems that agriculture is facing nowadays and in the future.

More information about the workshop can be obtained at: <https://www.plataformatierra.es/formacion/nuevas-herramientas-de-mejora-genetica-en-vegetales/>

The workshop took place on Oct 26 at the Fundación Grupo Cajamar facilities in Paiporta, Spain and was attended by over 70 people present and similar number connected online with the main goal of reaching out to the primary (producers) and seed sector representatives and get feedback for their expectation in relation to the NGTs.

The workshop included the presentation by Rosa Ana Malvar (Misión Galicia-CSIC) and Luis Guasch (National Center for Genetic Resources, CSIC-INIA) as coordinators of AGROFOR, an Interdisciplinary Thematic Platform (PTI) launched by the CSIC (Higher Council for Scientific Research) and designed to address the main challenges facing the agricultural sector from the breeder's perspective. This session was complemented by a visit to a diversity set of European traditional tomato varieties that were selected from the TRADITOM / HARNESSTOM collection by CSIC and cultivated at the Cajamar Group Foundation facilities in Paiporta, Spain. The selection presented the most appreciated varieties for fresh consumption after the evaluation of over 1.500 varieties.

This workshop is part of the activities directed to fostering the participation of a wide spectrum of social, cultural and economic agents including companies, farmers, producers, cooperatives, associations, as well as any group with an interest in the recovery of plant genetic biodiversity to optimize agricultural and forestry systems in terms production, sustainability and resilience.

The topic of this particular workshop was focused in the New Genomic Technologies and their impact in plant breeding. This topic is of special interest given the potential impact for European Agriculture and also given the proposal on NGTs currently under debate. The workshop counted with the participation of scientist's experts in NGTs that introduces the topic and provided examples of NBT application to cereals (F. Barro, IAS-CSIC, Spain), tomato (A Granell, IBMCP-CSIC, Spain) and citrus (J Terol, IVIA, Spain). A round table followed where representatives from the primary sector, seed companies and scientists shared their views on the need to introduce the NBT for crop breeding.

The round table was participated by representative from Farmers associations such as AVA-ASAJA and Unió de Llaoradors (all together representing over 270,000 associates) and by experts from Seed companies such as Intersemillas and ENZA_ZADEN. All shared high expectations for NBT and were looking forward to an EU legislation facilitating their use. Seed companies emphasized how they have been incorporating progressively all technologies in their breeding programs as they emerged, from precision phenotyping to





markers assisted breeding technologies to genomic information and all are expecting the EC to make it easier for them to implement NGT in their programs.

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Photo 1: Visit to the greenhouse facilities at FUNDACION GRUPO CAJAMAR (Paiporta)



Photo 2: Visit to the greenhouse facilities at FUNDACION GRUPO CAJAMAR (Paiporta)





Photo 3: Presentation of the session at FUNDACION GRUPO CAJAMAR (Paiporta)



Photo 4: Antonio Monforte (CSIC and Harnesstom IP) during the presentation of the workshop with Carlos Baixauli (Fundación Grupo Cajamar and Harnesstom IP) who hosted the event at the Fundación Grupo Cajamar facilities.

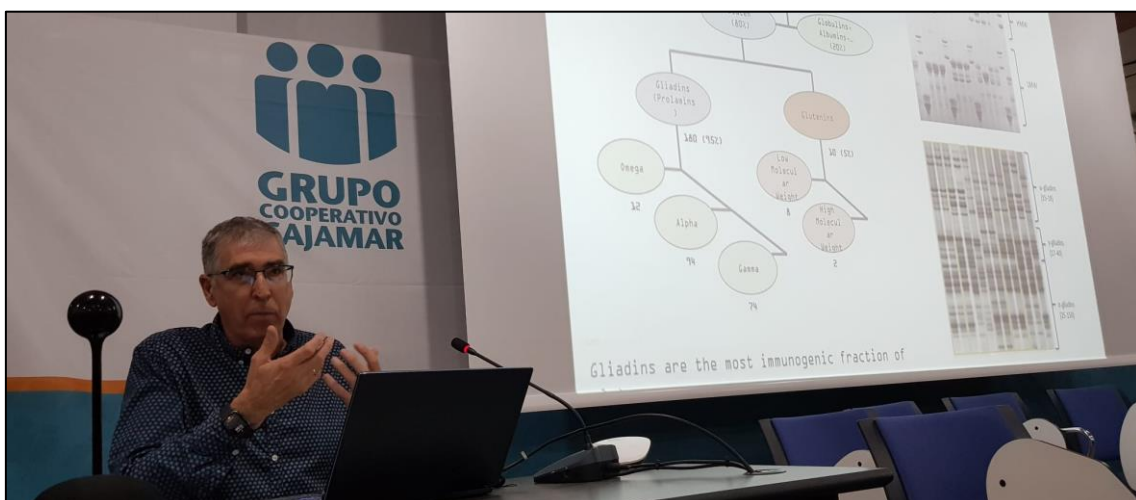


Photo 5: Francisco Barros (IAS, CSIC, Seville) during his presentation on NBT and their impact in cereal breeding.



Photo 6: Antonio Granell (IBMCP-CSIC and HARNESTOM coordinator) during his presentation on NGT applications in tomato.



Photo 7: Networking activities after the workshop.



PTI AGROFOR:
NUEVAS HERRAMIENTAS
BIOTECNOLÓGICAS EN
MEJORA VEGETAL

Día	Lugar
26 de Octubre de 2023	Fundación Cajamar. Camino del Cementerio Nuevo, s/n Paiporta

Programa

9:30 – 9:40 Presentación de la Jornada. Carlos Baixauli (Cajamar), Antonio Monforte (IBMCP-CSIC)

Bloque I. PTI AGROFOR

9:40 – 10:00 Presentación PTI AGROFOR. Luis Guasch, coordinador AGROFOR (INIA-CRG-CSIC)

10:00 – 10:15 GO Fitonet, un ejemplo de éxito. Rosana Malvar, coordinadora AGROFOR (MBG-CSIC)

10:15 – 10:45 Café y visita ensayo variedades de tomate dentro del proyecto GO-Fitonet

Bloque II Nuevas Herramientas Biotecnológicas en Mejora Vegetal

10:45-10:55. Presentación Carlos Romero (IBMCP-CSIC)

10:55 – 11:25 Antonio Granell (IBMCP-CSIC). Nuevas Herramientas Biotecnológicas en hortalizas. Casos de éxitos.

11:20 – 11:50 Francisco Barro (IAS-CSIC). Nuevas Herramientas Biotecnológicas en cereales. Caso de éxito: trigo con bajo contenido en gluten.

11:45 – 12:20 Javier Terol (IVIA). Biotecnología en cítricos: herramientas genómicas para la mejora.

12:20-13:20. Mesa Redonda “La necesidad de aplicar las nuevas tecnologías en mejora vegetal”.

Moderador: Gonzaga Ruiz de Gauna (Biovegen)

Representantes agricultores:

Cristóbal Aguado Laza. Presidente de la Asociación Valenciana de Agricultores (AVA-Asaja)

Ferrán Gregori (Unió de Llauradors)

Representante empresa de semillas:

Pablo Pérez Moreno. Responsable del departamento de mejora genética en Intersemillas

Frederic Perefarrres. Investigador principal en Enza Zaden

Francisco Javier Palomares. Crop Breeder Manager Cucumber

Científicos:

Antonio Granell Richart. Profesor de investigación en CSIC

Francisco Barro Losada. Profesor de Investigación CSIC

Javier Terol Alcaide. Investigador Principal, Centro de Genómica, VIA

13:20-13:30. Fin del evento

13:30-14:30. Networking.

Subscripción: <https://www.plataformatierra.es/formacion/nuevas-herramientas-de-mejora-genetica-en-vegetales>

