



Actividades divulgación Proyecto AGROALNEXT\_2022

Lugar	Arolab, Instituto de Bioingeniería UMH
Localidad	Elche
Provincia	Alicante
Fecha	12 de julio 2023
Proyecto:	ROOT4UE
Código proyecto	AGROALNEXT_2022/036
Grupo de investigación	 <b>Instituto de Bioingeniería</b> <b>UNIVERSITAT Miguel Hernández</b> 

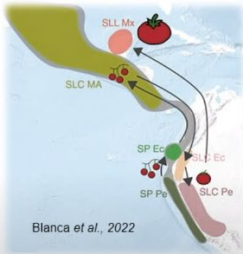
INFORME DE LA ACTIVIDAD:

El grupo ROOT4UE ha publicado un vídeo divulgativo donde se resumen los primeros resultados de las actividades llevadas a cabo por el laboratorio dentro del marco del proyecto con la finalidad de dar a conocer el trabajo realizado y la perspectiva futura.


CAPTURAS DE PANTALLA DEL VÍDEO REALIZADO EN ROOT4UE:

**Cultivated tomato domestication and natural variation**

- In tomato, the **Varitome collection** represents the continuum of wild, semi-domesticated and ancestral landraces




Blanca et al., 2022



Gao et al., 2019

- A genome-wide analysis study proposed a two-stage domestication model based on morphological traits of the aerial part of the plant (6 subpopulations)
- Wild populations were **SP Pe**, **SP Ec** and **SLC Ma**; **SLC Ec** and **SLC Pe** were domesticated, and **SLL** was derived from the latter



Genomic landscape of wound-induced adventitious root formation in tomato

Universidad Miguel Hernández de Elche 154 K suscriptores

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### Ectopic callus formation in Varitome collection

The video player shows a presentation slide with the following content:

- Bar Chart:** Shows the percentage of plants with and without callus across different tomato lines.
 

Line	w/o callus (%)	with callus (%)
SP Pe	~40	~60
SP Ecu	~50	~50
S.L.C. Ma	~100	~0
S.L.C. Ecu	~100	~0
S.L.C. Pe	~100	~0
S.L.L	~100	~0
- Map:** A geographical map showing the distribution of lines with their AR numbers and coordinates:
  - 8.6 ± 1.9, AR 896
  - 11.8 ± 1.6, AR 231
  - AR 232
  - AR 904
  - AR 910
  - 14.8 ± 3.3
  - AR 229, 7.5 ± 2.1
  - S.L.C. Ecu, forest, 80 Km
- Photographs:** Several close-up images of tomato leaves showing callus formation, labeled with AR numbers: 231, 910, 896, 232, 904, and 229.

**Text on slide:**

- Ectopic callus formation occurs in wild tomato (SP) and was lost during tomato domestication
- In some geographically close lines, ectopic callus formation appears to be negatively correlated with AR number

Y para que conste a los efectos oportunos

Firma del IP1.