

### **Dissecting soil legacy effects by microbial guilds**

Soil legacy are consequence of microbial communities associated to plant species. Some studies have shown that soil microbes associated to plants have deep effects on the survival and growth of other plants, being major drivers of recruitment and diversity maintenance. However, soil legacy is usually considered as a whole, ignoring the role of different microbial functional group or guilds. The aim of this experiment was to determine to what extent microbial functional groups effect on plant early establishment differs, potentially driving the recruitment in Mediterranean forests.

Here, we show that small-spored microbiota favoured seed emergence, but affected negatively the growth of seedlings. Oppositely, arbuscular mycorrhizal fungi did not affect seed emergence, but affected positively the growth. In view of revealed patterns, future studies should consider the role of different microbial guilds in soil to advance in the understanding of processes governing plant community dynamics.

<https://player.vimeo.com/video/482700446>



## Festival of Ecology

This certificate confirms that:

**Álvaro López-García**

Attended the above British Ecological Society event and presented a talk entitled  
**Dissecting soil legacy effects by microbial guilds**

Co-authors: Antonio Perea (Universidad de Jaén Spain), Belén Merelas Meijide (Misión Biológica de Galicia (CSIC) Spain), María Alguacil (Estación Experimental del Zaidín (CSIC) Spain), Carmen Ozuna (Universidad de Almería Spain), Jorge Prieto (Estación Experimental del Zaidín (CSIC) Spain), Julio Alcántara (Universidad de Jaén Spain), Concepción Azcón-Aguilar (Estación Experimental del Zaidín (CSIC) Spain), José Garrido (Estación Experimental del Zaidín (CSIC) Spain)

**Amy Everard**

A handwritten signature in black ink that reads 'AEverard' with a stylized flourish underneath.

*Events Manager  
British Ecological Society*

British Ecological Society  
42 Wharf Road, London, N1 7GS, United Kingdom  
Tel: +44 (0)20 3994 8245