



L-Università  
ta' Malta



## Improving honey bee health



Daniele Alberoni, Francesca Gaggia and David Mifsud

The **NO PROBLEMS** action - Nourishing PRObiotics to Bees to Mitigate Stressors - is a Research and Innovation Staff Exchange (RISE) within the Marie Skłodowska-Curie Actions.

Honey bees (*Apis mellifera* L.) are fighting against a number of biotic and abiotic stresses, such as pathogens, climate change, habitat loss (e.g. lack of flowers) and pesticides, factors which strongly affect beehives integrity and the genetic diversity of local bee ecotypes. Consequently, the beekeeping sector together with the whole ecosystem depending on pollinators suffer from missed pollination, with a loss of biodiversity in the long run.

The action will develop **sustainable technologies** aimed at counteracting the gut parasite of honey bees *Nosema ceranae*, increasing bee health and wealth with the development of a **formulation based on beneficial-probiotics microorganisms and plant extracts from Malta and Irish lands**.



The dissemination event will take place....



## **MALTA BEEKEEPERS' ASSOCIATION**

**Affiliated to: APIMONDIA**

**Email** : [maltabeekeepersassociation@gmail.com](mailto:maltabeekeepersassociation@gmail.com)

**Website** : <http://www.maltabeekeepersassociation.com>

**Monday 18 November 2019**

Meeting on Improving honey bee health.

Dr David Mifsud BSc., MSc., PhD., FRES., FLS., MOM; Associate Professor, Institute of Earth Systems; Division for Rural Sciences and Food Systems; and Director, Centre for the Liberal Arts and Sciences (CLAS) is inviting us for a meeting on improving honey bee health which will be held in Lecture Centre 1 at the University of Malta, on Wednesday 11 December 2019 between 12:00 and 14:00. Nibbles and drinks will be served. Please read enclosed flyer for more information.

Regards,

Malta Beekeepers' Association



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### **It-Tnejn 18 ta' Novembru 2019**

#### Laqgħa dwar it-titjib tas-saħħa tan-naħla.

Dr David Mifsud BSc., MSc., PhD., FRES., FLS., MOM; Associate Professor, Institute of Earth Systems; Division for Rural Sciences and Food Systems; and Director, Centre for the Liberal Arts and Sciences (CLAS) qiegħed jistedinna għall-laqgħa fuq kif intejjbu is-saħħa tan-naħla li ser issir f' Lecture Centre 1 fl-Universita' ta' Malta, l-Erbgħa 11 ta; Diċembru 2019 bejn 12:00 u s-14:00. Xorb u xi ikel ħafif ser jiġi pprovdut. Mehmuż hawn iktar informazzjoni bl-Ingliż, min jixtieq xi klarifiki jagħmel kuntatt magħna.

Saħħa,

Malta Beekeepers' Association