

BPRACTICES

"NEW INDICATORS AND ON-FARM PRACTICES TO IMPROVE HONEYBEE HEALTH IN THE AETHINA TUMIDA ERA IN EUROPE"

Dr. Giovanni Formato

1ST SusAn COFUNDED Projects Seminar 23-24 November 2017, Bilboa (BC, ES)





The ERA-net Cofund SusAn is funded by European Union's Horizon 2020 Research and Innovation programme under grant agreement n° 696231











Index

- Challenge
- Goal/ Objective
- Consortium
- Potential impact
- Preliminary results
- Stakeholders and expectations









Challenge



The **beekeeping sector** needs to find its way into sustainability and resilience in order to adapt to the present and future challenges

(climatic changes, diseases spread, loss in biodiversity, pollution, etc.)

The current needs of apiculture include:

- improvement in **competitiveness** and **resilience**
- productivity and health status enhancement
- environmental sustainability and consumer acceptability



FRA-NE I **SUSAN**





- Enhance honey bee health status in EU by implementing and adopting harmonized Good Beekeeping Practices (GBPs) within Partner Countries and beekeepers' Associations
- Provide guidelines on low environmental impact treatments to prevent and control honeybee diseases
- Set up innovative laboratory methods to prevent and diagnose honey bee diseases, with the collaboration of the European Union Reference Laboratory for Bee Health (ANSES)
- Set up an innovative traceability system





Consortium

Istituto Zooprofilattico Sperimentale del Lazio e della Toscana



University of Namik Kemal



Agricultural Institute of Slovenia



Centro de Investigación Apícola y Agroambiental de Marchamalo

Austrian Agency for Health & Food Safety



Istituto Zooprofilattico Sperimentale delle Venezie





FRA-NE I SUSAN





University of Genova



Mississippi State University

European Union Reference Laboratory for Bee Health (ANSES)



FAO (TECA Beekeeping Exchange Group)













- The new management practices, together with the innovative diagnostic techniques will impact the whole beekeeping sector, enhancing honey bee health, reducing the application of chemicals at the apiary level, increasing quality and quantity of bee products
- The sustainable production system, will impact the consumers through an innovative informative technology (QRCode/RFID system) that will allow them to know all the production details describing quality of bee products (and enhance consumers' trust)





Preliminary results

So far, a list of GBPs has been identified and scored by Partners, in collaboration with Apimondia

Through the collaboration with the FAO TECA platform, a survey will be distributed online to beekeepers to verify GBPs' feasibility and applicability at the apiary level in their everyday practice

General GBPs

Question	Average Response Score	EU Mandatory
Use only veterinary medicines for honey bees registered in your country or medicines legally imported	4	yes
Ensure that all treatments or procedures are carried out correctly as described in the instructions (respecting dosage and method of application)	4	yes
Do not carry out antibiotic illegal treatments	4	yes
Use only pharmacological products registered for beekeeping use following the use instructions and register the treatments	4	yes
In case of notifiable diseases follow the instructions of the veterinary law and authorities	4	yes
Register and identify the treated hives	4	yes
In case of infectious diseases clean all beekeeping material between uses (e.g. hive bodies, hive bottom boards, feeders, hive tools)	4	
Clean or disinfect (in case of infectious diseases) the hive box before installing new colonies	4	
Do not feed the bees with honey or pollen or supplements, unless the absence of pathogens (spores of AFB, chalkbrood, <u>nosema</u> , EFB, etc.) is certified	3,957143	
For nuclei use bees and brood combs from healthy colonies only (negatively inspected for bee diseases)	3,857143	



FRA-NETSUSAN



Preliminary results

 Two posters and an oral presentation on BPRACTICES project have been presented to the 2017 Apimondia Congress in Istanbul (Turkey) and other publications are in progress ...



Jorge Rivera-Gorris', Antonella Cersini', Magali Chabert', Marie-Pierre Chauzat', Roberto Eggenhoeffner', Serkan Erat', Ales Gregorc', Walter Haefeker', Mariano Higes', Riccardo Jamoni-Sebastianin', Charlotte Lietaer', Philip McCabe[®], Rudolf Moosbeckhofer', Dilek Muz', Mustafa Necati Muz', Nurullah Ozdernir', Marco Petropaoli', Licia Ravarotto[®], Alexandra Ribants', Marie-Pierre Riviere', Maja Ivana Smodis Skert[®], Giovanni Formato'

*Isituto Zooptofiatico Sperimentale delle Regioni Latio e Tossana, Va Apple Nuova 1411, 00178 Roma, Italy *ANGSS homeybee pathytoisy runit. European Union Reference Laboratory for bee Health, 105 route des Chappes, CS 20111, 00920 Soptia 447960, Pance *University of Genova, Italy Genova Italy *University of Genova, Italy Genova Italy *University of Namik Kempu Street, spo20 Teiridag, Turkey *University of Namik Kempu Street, spo20 Teiridag, Turkey *University of Namik Kempu Street, spo20 Teiridag, Turkey ⁹International Federation of Beeleespers Associations: Corso Villorio Emeruete (31, F-0386 Roma, Baly Dentro de Intrestigación Apocales y Agroenciental de Manchamato, D'Canino Sen Matti un rus galo Manchamato. Spain "Biorologies and particlos formanis" aprilolation attochos (TECA) patiente of the Food and Agroundue Organization of the United Nations (FAC), Vate celar Terme di Canacia, dologi Roma, Italy "Audiani Agency (To Health and Food Selety, Sosperfactioase (sp. 1260 Verma, Austria "Audiani Agency (To Health and Food Selety, Sosperfactioase) (sp. 1260 Verma, Austria "Apoctania Hearton (S Hoenni et al. Canacia) (sp. 100 Lagoras Salovnia). "Apoctania Heartonia of Silovnia - Mangellevia (Salovnia).

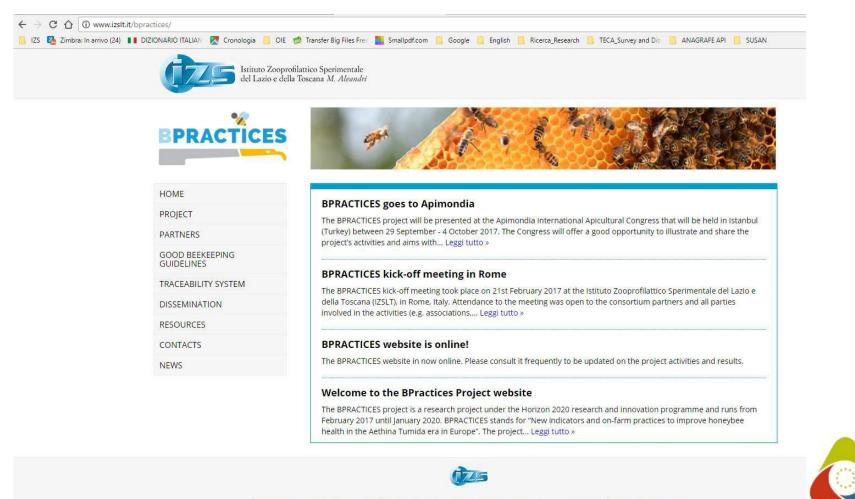
Keywords: Bee health, preclinic indicators, beehive matrices

Preclinic indicators, as essential part of the Good Beekeeping Practices (GBP), allow to diagnose bee diseases before symptoms appear. Therefore, chemical treatments can be reduced in order to avoid the risk of residues in the honeybee products. **BPRACTICES** is a project funded from the European Union's Horizon 2020 research and innovation programme under Grant Agreement n' 696231. ERA-Net SusAn – European Research Area on Sustainable Animal Production Systems, that aims to **develop a sustainable beekeeping breeding system by implementing innovative management practices (Good Beekeeping Practices - GBPs)**.



FRA-NETSUSAN

The project website is online and available at: http://www.izslt.it/bpractices/



The BPRACTICES project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement n° 696231, ERA-Net SusAn – European Research Area on Sustainable Animal Production Systems

FRA-NFT**SUSAN**

EPRACTICES Stakeholders and expectations

- International Federation of Beekeepers' Associations (Apimondia)
- European Beekeepers
- COPA-COGECA



To increase honey bee health

To increase quantity and quality of productions.

To enhance consumers' trust.



Thanks for your kind attention

http://www.izslt.it/bpractices/







