

ORGANIZERS



Brotherhood
of Ukrainian
Beekeepers
Non-Governmental
Organization



XXXXIII
International Apicultural Congress
29 September — 04 October 2013
Kyiv, Ukraine



Discover the European Honeyland

Apimondia
Kyiv, Ukraine 2013

Scientific Program

BEYOND THE HIVE: BEEKEEPING
& GLOBAL CHALLENGES

*Oral presentation abstracts
& poster list*

PLATINUM SPONSOR



Bee Health

- Romania** **A Case Of Acute Intoxication With Tefluthrin In Bees** BH1
Daniela Nica (nica.daniela@idah.ro), Gabriela Chioveanu
- Poland** **A Comparison Of Microscopic Methods To Nosema Spp. Identification And Differentiation** BH2
Aneta A. Ptaszynska (biolbiot@umcs.lublin.pl), Grzegorz Borsuk, Wiesław Mułenko, Krzysztof Olszewski, Jerzy Demetraki – Paleolog,
- Italy** **A Network Program For Health Monitoring Of Apiaries In Lombardy (North Italy)** BH3
Claudia Nassuato (Claudia_Nassuato@regione.lombardia.it), Monica Cerioli, Mario Astuti, Laura Gemma Brenzoni, Dominga Avisani, Antonio Lavazza
- Argentina** **A New Alternative In Organic Products** BH4
Paulo Damián Mielgo (infovar@apilab.com), Marcelo Del Hoyo
- Canada, Iran** **A New Method Of Afb Disease Control With N-Chromosome Royal Jelly** BH5
Hossein Yeganehrad (info@caspianapiaries.com), Abbas Mirabzadeh, Maryam Moarefi, Brian Cook
- USA** **A Novel Plant-Derived Product For The Control Of American Foulbrood In Honey Bee Colonies.** BH6
Jeff Pettis (jeff.pettis@ars.usda.gov)
- Tunisia** **A Preliminary Survey Of Seven Bee Viruses Using RT-PCR In Tunisia, North Africa** BH7
Taoufik Ben Hamida (taoufikbenhamida@yahoo.fr), Besma Babay, Zohra Mraihi,
- Italy** **A Veterinary Approach To Honey Bee Health Regulation: The Case Of Italy** BH8
Franco Mutinelli (fmutinelli@izsvenezie.it)
- Canada** **Accurately Determining And Managing Varroa Destructor Infestation Levels** BH9
Maryam Moarefi (maryam.moarefi@kiauo.ac.ir), Hossein Yeganehrad, Abbas Mirabzadeh
- Slovenia** **Acute Exposure To Coumaphos Affects Learning In The Honeybee Apis Mellifera** BH10
Danilo Bevk (danilo.bevk@nib.si), Jasna Kralj, Meta Virant Doberlet, Andrej Čokl
- Greece** **Amitraz, An Acaricide Against Honeybee Mites, Inducing Severe Biphasic Effects On The Honeybee Heart At Unusually Low Concentrations** BH11
Chrisovalantis Papaefthimiou (cpapaef@bio.auth.gr), Alexandros Papachristoforou, George Theophilidis
- Argentina** **Analysis Of The Incidence Of Varroa And Viruses On Hives Of The Buenos Aires Province** BH12
Ariel Rodrigo Guardia López (dpdrural_miel@maa.gba.gov.ar), Francisco Jose Reynaldi, Guillermo Hernan Sguazza, Marcelo Pérez, Jose Ringuélet, Cecilia Monica Galosi, Marcelo Ricardo Pecoraro, Barrios Mauricio, Crespo Patricio, García María del Carmen Massheimer Sandra, Muzzolon Guillermo, Taverna Anibal
- Poland** **Antibacterial Activity Of Octyl Gallate, Some Essential Oils And Their Components Against Paenibacillus Larvae** BH13
Jerzy Kazimierzczak (ipo@ipo.waw.pl)
- Iran** **Anti-Varroa Drugs (Without Market Authorization) Found On The Black Market In The Near East** BH14
Shahrrouzi Reza (rezashahrrouzi@yahoo.com)
- Russia** **Apilayf At Ascospaerosis** BH15
Tamara Domatskaya (vniivea@mail.ru), Natalia Vaskova
- Italy** **Bee Emergency Service Team (Best) In The Italian Monitoring Project Beenet** BH16
Claudio Porrini (claudio.porrini@unibo.it), Marco Lodesani, Franco Mutinelli, Piotr Medrzycki, Fabio Sgolastra, Teresa Renzi, Simone Tosi, Stefano Draghetti, Stefano Maini

- Switzerland **New Approaches To Fight European Foulbrood** BH93
Daniela Steiner (daniela.steiner@alp.admin.ch), Laurent Gauthier, Vincent Dietemann, Michel Chapuisat, Jean-Daniel Charrière
- Costa Rica, Panama **New Method For Control Of Varroa Destructor With Apse Tm Infrared-Wavelength Energy And Electromagnetic Pulses** BH94
Johan Van Veen (johanwvanveen@yahoo.com), Victor De Franco Levi, Rafael A. Calderón Fallas, Fernando Ramírez Arias
- Uruguay, Argentina **Nosema Ceranae Development In Italian And Africanized Honeybees** BH95
Yamandú Mendoza (ymendoza@inia.org.uy), Martín Pablo Porrini, Sebastián Díaz-Cetti, Gustavo Ramallo, Martín Javier Eguaras, Invernizzi Ciro
- Brazil **Nosema Ceranae Has Been Present In Brazil For More Than Three Decades** BH96
Érica Teixeira (erica@apta.sp.gov.br), Lubiane Santos, Aroni Sattler, Dejair Message, Maria Luisa Alves, Marta Martins, Marina Grassi-Sella, Tiago Mauricio Franco
- Portugal **Nosema Distribution Across Portugal. Results From The First Nationwide Survey (2011-12)** BH97
Sância Pires (cimo@ipb.pt), António Murilhas, Paulo Russo, Maria Valério, Manuel Gonçalves
- Georgia **Novel Biophysical Method For Disease Prevention And Treatment** BH98
Giorgi Nadareishvili (contact@nadareishvili.ge)
- India **Organic Treatment For Revival Of Apis Cerana From Sac Brood Virus Infection** BH99
Shubha Mujumdar (mujumdarshubha@yahoo.co.in)
- Algeria, Jordan **Oxalic Acid As Alternative Acaricidal Treatments For Varroa Destructor In Honeybee Colonies In Algeria** BH100
Adjlane Noureddine (adjlanenoureddine@hotmail.com), Haddad Nizar
- Benin **Parasites And Predators Of Honey Bee Apis Mellifera Adansonii In Benin Paraiso** BH101
Armand Paraiso (armand.paraiso@fa-up.bj)
- Taiwan **Pesticide Levels In Bee Pollen In Taiwan** BH102
Yue-Wen Chen (chenyw@niu.edu.tw), Chun-Ting Chen, Yi-Cheng Chen, Chong-Yu Ko
- Poland **Plant Extracts In Treatment Of The Honey Bee Diseases** BH103
Jerzy Grzegorz Kazimierzak (ipo@ipo.waw.pl)
- France **Pollen Diversity Activity On Bee Health** BH104
Odoux Jean-François (armelle.perennes@lusignan.inra.fr), Fortini Dominique, Feuillet Dalila, Le Conte Yves, Germain Karine, Mateescu Cristina, Aupinel Pierrick,
- Turkey **Population Levels, Wintering Ability And Survival Rates Of Varroa Destructor In Naturally Selected And Unselected Honey Bee Colonies** BH105
Devrim Oskay (doskay@yao.com), Onur Görkem Akyol, Umut Özer, Onur Bayram Kavak, Kader Vural, Ömer Özdemir
- Uruguay **Preliminary Analysis Of Nosema Ceranae Variants In Bumblebees And Honeybees From Uruguay, By Analysis Of The Gene Encoding For The Polar Tube Protein** BH106
Arbulo N. (kantunez03@gmail.com), Branchiccela B., Salvarrey S., Santos E., Invernizzi C., Antúnez K
- Poland **Preliminary Studies On The Occurrence Of Sacbrood Virus Of The Honeybee In Poland** BH107
Marta Skubida (sekretariat@piwet.pulawy.pl), Krystyna Pohorecka, Andrzej Bober, Dagmara Zdańska

Abstract 2

Nosema distribution across Portugal. Results from the first nationwide survey (2011–12)

A nationwide field sampling exercise was launched in 2011, to address mounting anecdotal evidence of atypically high honey bee colony mortalities of unexplained origin occurring throughout Portugal.

The first approach was to contact 662 beekeepers ($\approx 4\%$ of the registered Portuguese beekeepers), via telephone interviews with a view to formulating an 'educated guess' regarding the cases where *Nosema apis* / *Nosema ceranae* seemed more likely to have had a role in colony mortality/morbidity. Interviewees were selected accounting for their total numbers of colonies and the geographical distribution of their apiaries across the country. The 'interviewee grid' was set to 5 beekeepers per county, fully covering continental Portugal.

Following these interviews, a total of 227 apiaries (≈ 3 sampling sites per county), representing the whole continental part of the country, were sampled according to standard methodology (pooled samples of 60 foragers from the outside the hive entrance).

All samples were assessed both by standard light microscopy (in a first approach to *Nosema* spore presence/absence) and by molecular PCR-based methodology (mainly aiming at *Nosema* spp. identification), as recently published in the 'BEEBOOK'.

Nosema ceranae was identified in 51% of the studied apiaries across the country, ranging from 19% (in the southern 'Faro' district) up to 89% (in the northern 'Aveiro' district). Despite the fact that considerable district variation in *Nosema ceranae* prevalence levels were found throughout mainland Portugal, no biologically meaningful geographical pattern (either associated with north/south, inland/coastal or altitudinal transects) was observed.

Nosema apis infected samples were not encountered in this study.