

APIMONDIA

SCANDINAVIA

SWEDEN | DENMARK | NORWAY

2025

POSTER PRESENTATIONS



SEPTEMBER 24th - 25th, 2025

BEE HEALTH

- PP-1** Effectiveness of oxalic acid in the control of varroa mites in Africanized honeybee colonies in the tropical conditions of Costa Rica
Rafael Calderón
- PP-2** Small hive beetle (*Aethina tumida*) in Africanized honeybee colonies in Costa Rica: strategies for detection and monitoring
Rafael Calderon
- PP-3** Transcriptional dynamics and regulatory function of miRNAs in *Ascosphaera apis* invading *Apis mellifera* larvae
Xiaoxue Fan
- PP-4** Evaluation of the Development of Resistance of the Mite Varroa destructor to the Chemical Acaricides Apistan® and Bayvarol® in Costa Rica
Alberto Sáenz
- PP-5** Dynamics and regulatory role of circRNAs in Asian honey bee larvae following fungal infection
Rui Guo
- PP-6** First characterization and regulatory function of piRNAs in the *Apis mellifera* larval response to *Ascosphaera apis* invasion
Rui Guo
- PP-7** Effect of *Ascosphaera apis* infestation on the activities of four antioxidant enzymes in Asian honey bee larval guts
Rui Guo
- PP-8** ame-miR-34 modulates the larval body weight and immune response of *Apis mellifera* workers to *Ascosphara apis* invasion
Rui Guo
- PP-9** Circular RNA ame_circ_000115 regulates gene expression immune response of European honeybee larvae to *Ascosphaera apis* infection
Rui Guo
- PP-10** Breeding for disease and mite resistance in the small commercial apiary
Troy Hall
- PP-11** Nutrition of the honey bee parasite Varroa destructor: insights from behavioural and molecular studies
Vincent Piou
- PP-12** Considerations when sampling honeybee (*Apis mellifera*) colonies for volatile organic compounds (VOCs) associated with honeybee diseases, pests and environmental contamination
Maggie Gill
- PP-13** Biopolymer carriers of natural miticides with application in organic beekeeping
Desislava Budurova
- PP-14** Combining high-resolution smartphone images with new open-source software based on deep learning techniques will make Varroa diagnosis easier and more efficient
Jesús Yániz



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- PP-15 Lactic acid treatment works through a local way of action against *Varroa destructor*
Lucie Bouly
- PP-16 UBeeO: A Novel Tool for Selecting Pest- and Disease-Resistant Honey Bees
Kaira Wagoner
- PP-17 The German Bee Monitoring (DeBiMo) Project: pesticide residues in stored pollen from 2009 to 2024 reflect changes in agricultural practices
Kirsten Shoshanna Traynor
- PP-18 Harmonized Diagnostic Methods for *Tropilaelaps* Mites: Strengthening Surveillance and Control Against an Emerging Global Threat to Beekeeping
Stéphanie Franco
- PP-19 Api-vectoring potential of the entomopathogenic fungus *Beauveria bassiana* by *Bombus terrestris* for thrips control in strawberry production
Morgane Ourry
- PP-20 Defining the Molecular Markers of Honey Bee Health: The Role of Nutrition and Seasonal Dynamics
Olga Frunze
- PP-21 Improving Honey Bee Health: Analysis of Pollen Substitute Diets in Field and Cage Studies
Hyunjee Kim
- PP-22 The gypsy mushroom (*Cortinarius caperatus*) as a source of antiviral activity against the deformed wing virus
Alena Krejci
- PP-23 Five-year surveillance of AcSBV prevalence in *Apis cerana* in Northern Taiwan explore the risk of co-cultured with *Apis mellifera*
Yue-Wen Chen
- PP-24 The Impact of Emotions on Honeybee Health
Karolina Kuszewska
- PP-25 An Automated AI-Based Diagnostic Method for Assessing *Varroa destructor* Infestation in Honeybee Colonies-First results and findings
Gunther Bigl
- PP-26 Exploring virome dynamics in *Varroa destructor* -resistant and susceptible honey bee colonies
Daniela Arredondo
- PP-27 Are *Apis mellifera* Filamentous Virus (AmFV) and Lake Sinai Virus (LSV) emerging viruses in Uruguay? A retrospective survey
Daniela Arredondo
- PP-28 Effects of Rapid Heat Hardening of Honeybee Mother Queens (*Apis mellifera*) on the Oxidative Response of Their Daughter Workers during Heat Stress
Abd Al Majeed Al Ghzawi



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Erika Plettner
- PP-30** Atrazine exposure can dysregulate the immune system and increase the susceptibility against pathogens in honeybees
Kang Wang
- PP-31** Prevalence of honeybee pathogens in South Korea: A five-year nationwide surveillance (2020–2024)
Juhaeng Heo
- PP-32** Natural antibacterial solutions: essential oils and hydrolates for beehive health
Zivile Strazdaite Zieliene
- PP-33** Diseases and parasites in managed honey bees in Europe (Horizon 2020 project B-GOOD)
Severine Matthijs
- PP-34** Effect of rapid heat hardening of honeybee mother queens (*Apis mellifera*) on the immune response of their daughter workers during heat stress
Shahera Zaitoun
- PP-35** Varroa monitoring and biomechanical treatment
Frederik Husted Andersen
- PP-36** Field-deployable molecular diagnosis of sacbrood virus using a rapid point-of-care assay
Juhaeng Heo
- PP-37** Honeybee Vaccination – from the lab to the field
Dalial Freitak
- PP-38** Microbiota of honeybee drones and biocontrol potential
Vilija Lapinskaitė
- PP-39** Applicability of the greater wax moth (*Galleria mellonella*) as a model organism in the biodegradation of various materials
Sedat Yelkovan
- PP-40** Efficacy of queen isolation and organic acid treatment as control strategy against Varroa destructor
Dongwon Kim
- PP-41** Biotic and abiotic stresses on honeybee health
Zheguang Lin
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Ting Ji



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Johan Wilhelm Van Veen
- PP-45 Status of the Yellow Legged Hornet, *Vespa velutina*, in North America
Benjamin Powell
- PP-46 Effects of Diet and Probiotics on the Health of Honey Bees
Joseph Palmer
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Lisa Marie Ghezzi
- PP-48 Use of a plant extract (ApiSave), as a natural and novel alternative to synthetic chemicals, to control honeybee diseases in North America
Kouadio Gerard Bedie
- PP-49 Light therapy applied to bees, a game changer approach to protect bees from climate, toxicity and transport stressors
Christophe P Brod
- PP-50 Results of monitoring the biological relationship of Africanized bees with Varroa since 2002 in two geographical areas of Santa Cruz, Bolivia
Nilo Padilla Osinaga
- PP-51 Indirect Effects of Pesticide Exposure on the Honeybees Gut Microbiota: Disruption through Altered Pollen Consumption
Kang Wang
- PP-52 Greater wax moth control in apiaries can be improved by combining *Bacillus thuringiensis* and entrapments
Pingli Dai
- PP-53 An update on the colony loss report of the Apimondia 2023 Congress: Has *Tropilaelaps* passed the borders of Iran and is it among the causes of the massive devastating honey bee colony loss across Iran?
Pegah Valizadeh
- PP-54 Overcoming *varroa destructor*
Nilo Padilla Osinaga
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Lina De Smet
- PP-56 Beneficial bacteria-based feed additives for honeybees: current research and field application insights
Daniele Alberoni
- PP-57 Exploring the role of opportunistic pathogens in honeybee health: the case of *Serratia marcescens* synergy with *Nosema ceranae*
Chiara Braglia
- PP-58 Semi-field tests of repellent and attractant molecules to *Aethina tumida*, a pest of *Apis mellifera*
Cameron Jack



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Chiara Benedetta Boni
- PP-60 Effects of mosquito larvicides and adulticides applied via truck-mounted and aerial spraying on honey bees (*Apis mellifera*) in Florida
Léna Barascou
- PP-61 Application of MALDI-TOF mass spectrometry for the identification of the fungus *Ascosphaera apis*
Barbara Hocevar
- PP-62 Administration of coconut oil-enriched diet in honey bees' nutrition: effects on survival and health
Francesca Coppola
- PP-63 Collateral effects of pesticides on plant-microorganism-bee interactions
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- PP-64 RNA metagenomics-based surveillance of diverse honey bee (*Apis mellifera*) pathogens revealing the seasonal pathogen dynamics in Taiwan
Fang-Min Chang
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Jean-Marc Bonmatin
- PP-66 Small Hive Beetle Outbreak in Reunion: A new haplotype defined in clade C
Stéphanie Franco
- PP-67 Fat and happy? The impact of *Lotmaria passim* on honey bee nutrition and lifespan
Courtney I. MacInnis
- PP-68 Genomic variations among different isolates of *Vairimorpha ceranae* reveal the risk of microsporidian adaptation to thermal stress in Taiwan
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Buse Dengiz
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- PP-71 Beeswax foundation as a new method of transporting organic therapeutic agents for bee disease control
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- PP-72 Beeswax foundation Dombrovskyi «Antivarroa»
Valerii Dombrovskyi
- PP-73 The *Bidens pilosa* phytogetic treatment reveals a negative impact on *Vairimorpha ceranae* through the suppression of V-Type ATPase expression in infected honey bees (*Apis mellifera*)
Yi Hsuan Li
- PP-74 The Role of Nitric Oxide in Honeybee Immunity: Assessing the Impact of Acetamiprid Exposure
Alice Šárková



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Ana Morton
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Heather Graham
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Filip Ublekov
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Ralph Büchler
- PP-80** Ultrasonic combating of Varroa Destructor and Acarapis Woodi mites
Marian Ryszard Surowiec
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Jose Octavio Macias-Macias
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Andrzej Marcin Bober
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John Mackay
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Baye Berihun Getahun
- PP-85** Single-Nucleotide Polymorphisms (SNPs) in the ORβ-2R-L Gene of French and Spanish Varroa Mite Populations Are Not Directly Linked to Amitraz-Resistant Phenotypes
Ulrike Marsky
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Jessica Baroga-Barbecho
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Alexis Beaurepaire
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Martina Janků
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Dirk Louis P Schorkopf
- PP-92** Biological distribution of honey bee vitellogenin and its fragments in bee organism
Eva Hrtánková
- PP-93** Antiviral defence mechanisms in honey bees infected with deformed wing virus
Gabriela Hofericová
- PP-94** Altering the expression of hsp and amp genes to potentially enhance stress tolerance by curcumin and quercetin containing nutritional supplement in honey bees (*Apis mellifera*)
Evelin Kámán Tóth
- PP-95** *Paenibacillus melissococcoides*: a new pathogen of honey bee brood?
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- PP-96** Evaluating Possible Effects of Radio-Frequency Electromagnetic Fields (RF-EMF) Exposure on Biodiversity, Development & Fitness of Insects
Maria Bouga
- PP-97** Causes of periodic mass bee mortality in Ukraine
Tetyana Vasylykivska
- PP-98** Actinobacteria from Stingless Bees: Isolation, Characterization, and Antimicrobial Potential
Michelle Manfrini Morais
- PP-99** Brain Fatty Acid Profile Alterations in Honey Bees Induced by Neonicotinoid Acetamiprid
Fanni Huber
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Dan Aurell
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Stephen F. Pernal
- PP-102** Neurotoxic pesticides induced alterations in nursing behavior and foraging-related genes in the nurse bee of the honey bee, *Apis mellifera*. L
Euijin You
- PP-103** Treatment-free beekeeping: a case study of success in the Negev desert
Alex Gamberoni
- PP-104** Effectiveness of innovative BeeSmoke pelleted fuel and remedy ApiBonum ib on the vitality of honeybee colonies
Ivana Tlak Gajger
- PP-105** Prebiotic Approach Research with *Taraxacum officinale* and *Cichorium intybus* for the Welfare of Honey Bees and Protection of Microbiota Dynamics and also against Nosemosis
Asli Ozkirim



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Anastasia Kalapouti
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- PP-108** Building tools for Integrated Varroa Mite Management: field monitoring of varroa sensitivity to acaricides in the Grand Est region
Marjorie Tonnelier
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Yao Liu
- PP-110** Resistance and vulnerability of honeybee (*Apis mellifera*) gut bacteria to commonly used pesticides
Ana Cuesta-Maté
- PP-111** Pathogens on the move: impact of transmission between managed and wild bees
Anja Probst
- PP-112** Gut microbiome composition and hygienic behavior as indicators of varroa resistance in an Italian honey bee breeding population
Maria Grazia De Iorio
- PP-113** Honey bee resistance to varroa mites: insight into the complex nature of the SMR trait
Amélie Noël
- PP-114** Treatment-free beekeeping: case study in Negev Desert
A. Gamberoni
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Alena Krejčí
- PP-116** Development of a metabolic preparation with high antimicrobial potential for use in the prophylaxis against *Paenibacillus larvae* causing American foulbrood in bee colonies
Piotr Nowotnik
- PP-117** Environmental (eDNA) detection tools for monitoring *Vespa velutina*
Kaitlin R. Deutsch
- PP-118** Development of a starch-vaseline formulation for controlled release of thymol as acaricide in beehives
Carmen Rossini
- PP-119** In-person workshops increase the likelihood of beekeepers adopting best management practices that are supported by science
Selina Bruckner
- PP-120** Understanding the molecular machinery in agrochemical detoxification
Aidan Jamieson



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Nikola Kezic
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Nuria Morfin
- PP-123 Postbiotics in beekeeping: benefits in the strength of the beehives and direct effect against *Varroa destructor*
David Risco
- PP-124 Hive type and genetics for improved varroa survival and resistance
Jorge Langa
- PP-125 Comparative toxicity of neonicotinoid insecticides to honey bees: insights from a comprehensive network meta-analysis
Mohammad Razmkabir
- PP-126 Comparing *Apis mellifera* health outcomes using biotechnical methods, organic chemicals or synthetic chemicals to manage *Varroa destructor* during the initial invasion phase in subtropical Australia
Jacqueline Ashlea Morrison
- PP-127 Novel Approach to Hive Health and Varroa Control
Jeffery Pettis
- PP-128 Evaluation of screen and sticky bottom boards for the control of *Varroa destructor* in Africanized and European honeybees
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- PP-129 Hygroregulation in honeybees: strategies for survival in the Arizona desert
Ethel M Villalobos
- PP-130 Living with the small hive beetle: what we have learned after 15 years of continuous pest pressure in Hawaii
Ethel M Villalobos
- PP-131 Evaluation of efficacy of lactic acid bacteria from Honeybee for American foulbrood and Nosemosis
Hyang Sim Lee
- PP-132 Addition of postbiotics enhances the effectiveness of oxalic acid treatments against *Varroa destructor* under field conditions
Laura Morales
- PP-133 Honey bee nutrition as a beekeeping management practice: the first global survey by the COLOSS Bee Nutrition Task Force
Alessandra Giacomelli
- PP-134 More than ten years of the bee poisoning incident diagnostics programme in Poland - experiences and conclusions
Tomasz Kiljanek
- PP-135 Prevalence of pathogens and parasites in Danish honey bees
Annette Bruun Jensen
- PP-136 Microbial interaction study for biocontrol of American foulbrood (AFB) in Honeybees
Dany Yammouni
- PP-137 Understanding the emergence and disease dynamics of Chronic bee paralysis in England and Wales
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James Townsend Fearnley
- PP-140** Parasites and Pathogens Affecting Honey Bees in the United Arab Emirates
Saad Masry
- PP-141** Optimized nutrition for managed bees: a scalable solution to pesticide exposure
Andre J. Riveros
- PP-142** Simultaneously applying Darwinian selection for honey bee survival in 8 European countries
Séverine Denise Kotrschal (Buechel)
- PP-143** Varroa Surviving Bees in Argentina (ASVA): A national project
Francisco José Reynaldi
- PP-144** Flawed generalizations: sex- and species-specific susceptibility to pesticide exposure in bees
Domenic W. Camenzind
- PP-145** French beekeepers against neonicotinoids: a 30-year struggle
Henri Clément
- PP-146** Effects of the fungicide tebuconazole and the insecticides cypermethrin and methyl chlorpyrifos on *Apis mellifera carnica* (Pollmann, 1879)
Caio Eduardo da Costa Domingues
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Anabela Nave
- PP-148** Laboratory and field tests to assess the efficacy of B403 against wax moth (*Galleria mellonella*) and safety on honeybees (*Apis mellifera*)
Alexandros Papachristoforou
- PP-149** Thermotolerance of the honey bee: differences between three subspecies of *Apis mellifera* living in Mediterranean basin
Soledad Sagastume
- PP-150** How safe is swarm trapping in areas with a high density of bee colonies and a history of American foulbrood outbreaks: an example of swarm surveillance in the city of Ljubljana
Lucija Žvokelj
- PP-151** Studying dehydration as an adaptive trait in honey bees: differences among nine *Apis mellifera* subspecies living in Mediterranean basin
Soledad Sagastume
- PP-152** Toxicity of active substances used in agriculture towards bees
Giovanni Formato
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Chaitanya B Police Patil



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Paulo Damian Mielgo
- PP-155** Optimisation of Varroa destructor control strategies in Ukrainian apiaries
Anatoliy Kharkovenko
- PP-156** The expanding threat of *Vespa orientalis*: insights from Malta on microbiota, pathogens, and beekeeper perceptions
Simone Cutajar
- PP-157** Low Varroa destructor infestation and the potential of organic beekeeping in Pernambuco Brazil
Yasmim Veras Luna de Carvalho
- PP-158** Management of pests and predators of Honeybee: Control strategies for improved bee keeping in India
Radhakrishna Sitaram Pandit
- PP-159** How does combined exposure to pesticides and *Nosema ceranae* affect bee health?
Diego Eduardo Vázquez
- PP-160** Diversity and distribution of honey bee viruses in the Netherlands
Delphine Panziera
- PP-161** Chemo-whispering: A possible adaptive trait of honey bees to reduce varroa mite reproduction
Nicholas Scaramella
- PP-162** Detection of miticide resistance in Varroa destructor mite population in Canadian apiaries
Patricia Wolf Veiga
- PP-163** Profiling the Bee Gut Microbiome for Diagnosing Stressor Exposure: The Neonicotinoid Insecticides Example
Maria Marta Guarna
- PP-164** Plega hagenella (Neuroptera), efficient parasitoid of stingless bees (Meliponini) colonies: biology, infestation and control in stingless bees breeding sites
Vera Lucia Imperatriz-Fonseca
- PP-165** Distribution of pyrethroid and amitraz resistance in Varroa destructor mites from honey bee (*Apis mellifera*) colonies in Portugal
Dora Henriques
- PP-166** Impact of blueberry environment on bee bread, larvae and foraging bees: An untargeted metabolomic profiling approach
Pierre Giovenazzo
- PP-167** Evaluating pesticide efficacy for the control of *Vespa velutina nigrithorax*: one more step to protect the bees
Soraia Sousa Santos
- PP-168** "Breeding mite and disease resistant honey bees in the US"
Cory Andrew Stevens
- PP-169** Effects of radiofrequency electromagnetic fields (RF-EMF) on honey bees and other pollinators
Manuel Treder



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Andjela Neskovic
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Noa Simon Delso
- PP-173** Comparative study between different methods of varroa control: brood interruption and long-term application of oxalic acid
Lucija Žvokelj
- PP-174** Applied mycology in beekeeping, impact of fall *Ganoderma lucidum* supplementation on winter survival
Geoffroy Renaud
- PP-175** Effects of Crossbreeding on Grooming Behavior in Iranian Honey Bees (*Apis mellifera meda*)
Shima Youzi
- PP-176** Assessing the Impact of Total Dissolved Solids (TDS) in Water on Honey Bee Health in Northeast Louisiana, USA
Mahmoud Ramazani
- PP-177** The importance of gut flora in the overwintering process for Swedish honey bees (*Apis mellifera*) effects on bee health?
Sonja Leidenberger
- PP-178** Exposome Analysis of Honeybees Using Passive Sampling followed by HRMS
Amadeo R. Fernández Alba



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BEEKEEPING TECHNOLOGY AND QUALITY

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Jakkrawut Maitip
- PP-180** The levels of pesticide persistence in commercially available beeswax from different countries
Egehan Onat Ozfen
- PP-181** Use of Alternative Protein Sources in the Nutrition of Honey Bees Under Commercial Colony Management Conditions in New Zealand
Oleksiy Losyev
- PP-182** Characterizing Honey-Fruit Combined Fillings for Bakery Products: A Comparative Study against Commercial Products
Masud Alam
- PP-183** Production, Processing and Quality of Indian Honey from Apis Dorsata
Dhananjay Manohar Wakhle
- PP-184** Three digital beekeeping tools in Taiwan: *Varroa* mite monitoring system, nectar source geographic information system and apicultural traceability system
Pei Shou Hsu
- PP-185** Finding DCAs with mechanical drones and data collection of DCA locations
Julia Mahood
- PP-186** Climate Hive "BEELIVE" – Reducing Humidity in the Beehive
Daniel Ruck
- PP-187** Appalachian Multi-purpose Apiary Informatics System (AppMAIS)
Rahman Tashakkori
- PP-188** Mercury Contamination in Honey from Different Bee Species in Ecuador: Health Risks and Environmental Quality
George Enrique Mosquera González
- PP-189** Heather honey proteins
Lassi Kauko
- PP-190** Automated entrance monitoring to investigate honey bee foraging trips using an open-source wireless platform and fiducial tags
Robyn M Underwood
- PP-191** Chemometric Classification of Peruvian Honeys from Bajo Mayo, San Martín, Peru: Multivariate and Factorial Modeling Approaches
Guillermo Salamanca Grosso
- PP-192** Multivariate techniques and factorial multiple models in classification of honeys from states of Lara and Yaracuy (Venezuela)
Anderson Guarnizo Franco
- PP-193** Refractive, Codounis, Kirkwood and Tabouret Indices in the Evaluation of Selected Colombian Honeys
Anderson Guarnizo Franco
- PP-194** Development of a Geographic Identity for Mielles Ecuador: Creation of Designation of Origin and Protection
Delfín Laureano Carlozama Almeida



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- PP-195** Chemometric analysis in classification of Colombian honeys according to phenolic, reductive capacity and antiradical potential
Nidian Lizeth Narvaez Garcia
- PP-196** Is what you see what you get? Investigating the pollen composition and commercial label of Greater Cape Floristic Region honey
Janaïs Delpont
- PP-197** A new type of cells built by bees. Holistic approach
Dragos Negru
- PP-198** Physicochemical characterization and determination of the biological activity of monofloral encenillo honey from the high Andean zone of Colombia
Anderson Guarnizo Franco
- PP-199** Effect of collection month on the freezability of drone semen of *Apis mellifera iberiensis* reared under field conditions
Pilar Santolaria
- PP-200** The Consumer as the Harvester: Disrupting Honey's Supply Chain
Simon Mildren
- PP-201** From Hive to Honesty: How Technology is Combating Honey Fraud and Restoring Trust
Simon Mildren
- PP-202** IoT-Based Hive Monitoring for Evaluating Colony Strength and Honeybee Pollination Efficiency
Igor Kurdin
- PP-203** Solar-Powered Smart Hives Network for Beekeeping and Long-Term Research
Igor Kurdin
- PP-204** An armed concrete langstroth hive: a prototype to popularize on bail of a patent
Kodjo Logou Logou Agossou
- PP-205** Evaluation of the effect of fructooligosaccharides (FOS) on the honey bee microbiota and mycobiota
Pilar De la Rua
- PP-206** Bivouac traps: capture swarms within the apiary
Frank Linton
- PP-207** STUDY OF GEOGRAPHICAL INDICATIONS OF ORIGIN FOR THE PRODUCTION OF HONEY OF *Myracrodruon urundeuva* CHACO CHUQUISQUEÑO REGION BOLIVIA – 2024
Ever Medrano Narvaez
- PP-208** Characterization of Colombian propolis: Fingerprinting by electrospray ionization mass spectrometry
Anderson Guarnizo Franco
- PP-209** A chemometric approach: Characterization and classification of Colombian propolis based on Infrared spectroscopy
Anderson Guarnizo Franco
- PP-210** Profile of physicochemical parameters in the determination of authenticity and diagnosis of Colombian honeys: DSC as a complementary diagnostic tool
Anderson Guarnizo Franco



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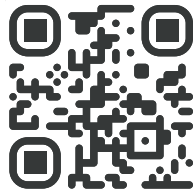
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