



# APIMONDIA

SCANDINAVIA

SWEDEN | DENMARK | NORWAY

23-27 SEPTEMBER

# 2025



COPENHAGEN

## SEPTEMBER 24th, 2025 – Wednesday

### HALL A2

09:00 – 10:30

### SYMPOSIUM / BEE HEALTH

#### Effects of Pesticides-1

09:00 – 09:15

Tebuconazole-induced oxidative stress in honeybee flight muscles: mechanisms of disruption and adaptive cellular mechanisms

**Máté Dr. Mackei** – *Hungary*

09:15 – 09:30

Chemical Pollution and Pollinator Health: Assessing Multi-Stressor Effects on Honeybees and Solitary Bees

**Daniela Lupi** – *Italy*

09:30 – 09:45

The effect of oxalic acid on honey bee (*Apis mellifera*) physiology

**Eliška Pindáková Beranová** – *Czech Republic*

09:45 – 10:00

Assessing pesticide impact on honeybee gut microbiota: a call for microbial diversity as an environmental risk assessment endpoint

**Annelise Rosa-Fontana** – *Spain*

10:00 – 10:15

Will my colony survive this season? A benchmark analysis of statistical and computational models to predict honey bee mortality

**Maxime Fraser Franco** – *Canada*

10:15 – 10:30

Enhanced immune response and antimicrobial activity in honey bees (*Apis mellifera*) following application of oxalic acid-glycerine strips

**Jiří Daníhlík** – *Czech Republic*

## SEPTEMBER 24th, 2025 – Wednesday

### HALL A2

11:00 – 13:00

### SYMPOSIUM / BEE HEALTH

#### Effects of Pesticides-2

11:00 – 11:15

Exploring RNA methylation as a promising biomarker for assessing risk of pesticide on honeybees

**Miao Wang** – *China*

11:15 – 11:30

Presence of pesticide residues in honey-bee-collected pollen in the context of Latvian landscapes

**Niks Ozols** – *Latvia*

11:30 – 11:45

Are PFAS yet another threat to bees?

**Carolyn Anne Sonter** – *Australia*

11:45 – 12:00

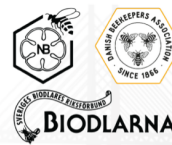
Exploring the Physiological Mechanisms Underlying Sublethal Imidacloprid-Induced Early Foraging Behavior in Honey Bee Workers

**Wan Yi Chen** – *Taiwan*

12:00 – 12:15

Toxicity tests of mosquito larvicides and adulticides on honey bee larvae (*Apis mellifera*) reared *in vitro*

**Léna Barascou** – *USA*



- 12:15 – 12:30      Why are SDHI pesticides of concern to beekeepers and scientists?  
**Jean-Marc Bonmatin** – *France*
- 12:30 – 12:45      Chronic exposure unravels varying susceptibility across three eusocial bee species  
**Lars Straub** – *Switzerland*
- 12:45 – 13:00      The impact of heat stress and pesticide exposure on honeybee immune response  
**Lenka Jerele** – *Slovenia*

### SEPTEMBER 24th, 2025 – Wednesday

#### **AUDITORIUM 15      SYMPOSIUM / BEE HEALTH** **14:30 – 16:30      Honey Bee Pathogens**

- 14:30 – 14:45      Longitudinal analysis of honey bee disease and pathogen prevalence in the USA from 1984 to 2015  
**Mohamed Alburaki** – *USA*
- 14:45 – 15:00      A Review of Bee Health in Africa: A Development Perspective  
**William Van Blyderveen** – *United Kingdom*
- 15:00 – 15:15      World Honey Bee Health – A COLOSS effort to monitor the global distribution of *Apis mellifera* pests and pathogens  
**James D. Ellis** – *USA*
- 15:15 – 15:30      Rapid quantification and classification of *Nosema* spp. spores and *M. mellificae* cysts using automated microscopy and artificial intelligence  
**Iratxe Perales** – *Spain*
- 15:30 – 15:45      Honey bee (*Apis mellifera*) hygienic behavior linked to innate defenses against an adult bee pathogen, *Vairimorpha* (*Nosema*) *ceranae*  
**Sydney Miller** – *USA*
- 15:45 – 16:00      *Nosema* (*Vairimorpha*) *ceranae* infection alters honey bee (*Apis mellifera*) queen behavior and reproductive capacity  
**Juliana Rangel** – *USA*
- 16:00 – 16:15      Effects of conventional and sustainable beekeeping on the pathogen load of honeybees  
**Ricarda Scheiner** – *Germany*
- 16:15 – 16:30      The European Union national reference laboratories are ready to diagnose diseases and protect beekeeping  
**Marion Laurent** – *France*



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## SEPTEMBER 24th, 2025 – Wednesday

### **HALL A3** **17:00 – 18:30**      **SYMPOSIUM / BEE HEALTH** **Food Supplements and Bee Health**

- 17:00 – 17:15      Lysozyme, an powerful protein supplement for prevention of brood diseases and stimulation of colony development: a report from large scale laboratory-to-field trials on the Canary Islands and Spain.  
**Dr. Javier Hernández López – Spain**
- 17:15 – 17:30      The use of thymol as nano-emulsion in honey bee supplemental feed (*Apis mellifera*)  
**Constantin-Ovidiu Craiu – Romania**
- 17:30 – 17:45      The impact of pollen diet and microbiome on honey bee health  
**Chiara Braglia – Italy**
- 17:45 – 18:00      Exploring environmental influences on honey bee gut microbiota: a comparative analysis of *Apis mellifera ruttneri* and *Apis mellifera ligustica* across two climate  
**Simone Cutajar – Italy**
- 18:00 – 18:15      A novel non-invasive method to characterize the gut microbiome and viral profile of honey bee queens  
**Leslie A. Holmes – Canada**
- 18:15 – 18:30      *Nosema (Vairimorpha) ceranae* infection alters honey bee (*Apis mellifera*) queen behavior and reproductive capacity  
**Pilar De la Rua – Spain**

## SEPTEMBER 25th, 2025 – Thursday

### **HALL A2** **11:00 – 13:00**      **SYMPOSIUM / BEE HEALTH** **Focus On Foulbrood**

- 11:00 – 11:15      Official Monitoring of American Foulbrood in Saxony 2019 - 2023  
**Michael Hardt – Germany**
- 11:15 – 11:30      A rapid diagnosis of American and European foulbrood in one test kit  
**Sandra Ehrenberg – Germany**
- 11:30 – 11:45      Newly isolated bacteria increase the survival of honeybee larvae infected with *Paenibacillus larvae*  
**Li Zhang – China**
- 11:45 – 12:00      The Foster AFB Method: rapid detection of clinical American Foulbrood through non-invasive hive sampling and DNA quantification via qPCR  
**John Mackay – New Zealand**
- 12:00 – 12:15      **A Rapid and Early Detection Method for *Paenibacillus larvae* Spores: Advancing AFB Diagnosis and Hive Protection**  
**Ana Oliveira – Portugal**



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- 12:15 – 12:30 *Paenibacillus melissococcoides*: the discovery of a new bacterium associated with a honey bee brood disease  
**Jean-Daniel Charrière – Switzerland**
- 12:30 – 12:45 Pros and Cons of Diagnostic Tests Used for Early Detection and Risk Assessment of American Foulbrood in Small and Large Beekeeping Operations  
**Elemir Simko – Canada**
- 12:45 – 13:00 Disinfection and antimicrobial management of European foulbrood disease reservoirs  
**Sarah C. Wood – Canada**

## SEPTEMBER 25th, 2025 – Thursday

- HALL A1**  
**14:30 – 16:30** **SYMPOSIUM / BEE HEALTH**  
**Bridging Research and Practice**
- 14:30 – 14:45 Taking the sting out of honey bee medicine: training and tools for veterinarians  
**Meghan Milbrath – USA**
- 14:45 – 15:00 ImBieSax – implementation and testing of a veterinary specialist counselling on bee health for beekeepers in Saxony  
**Julia Dittes – Germany**
- 15:00 – 15:15 Long-term learning programs greatly improve queen production and quality  
**Robyn M Underwood – USA**
- 15:15 – 15:30 Brazilian Bee Observatory: Hive Monitoring as an Indicator of the Sustainability of Brazilian Agriculture  
**Betina Blochtein – Brazil**
- 15:30 – 15:45 Crucial necessity of a revolution in bee health practices in beekeeping of Iran  
**Pegah Valizadeh – Iran**
- 15:45 – 16:00 Empowering beekeepers and their communities: educational strategies for mitigating pesticide risks to pollinators  
**Jennifer Bryan Goforth – USA**
- 16:00 – 16:15 Alien species - European beekeeping under "siege"  
**Cecilia Costa – Italy**
- 16:15 – 16:30 Bee Aware Science: Ten Scientific Articles Highlights Every Month  
**Christophe Roy – France**



## SEPTEMBER 25th, 2025 – Thursday

### **HALL A1**                      **SYMPOSIUM / BEE HEALTH** **17:00 – 18:30**                      **Updates on SHB and Tropilaelaps**

17:00 – 17:15                      Not a numbers game – small hive beetle infestations in honeybee host colonies  
**Aura K Palonen – Switzerland**

17:15 – 17:30                      Use of RNA interference to silence target genes of "*Aethina tumida*", an invasive pest species of apiaries  
**Salvatore Arpaia – Italy**

17:30 – 17:45                      Impact of EU regulation on Honey Bee Health: the case of *Aethina tumida* in Italy  
**Michela Bertola – Italy**

17:45 – 18:00                      Small hive beetle reproduction in association with honeybee colonies  
**Peter Neumann – Switzerland**

18:00 – 18:15                      An *in vitro* investigation into the survival of *Tropilaelaps mercedesae* on a range of matrices  
**Maggie C Gill – United Kingdom**

18:15 – 18:30                      Environmental DNA as a detection approach for *Tropilaelaps* mites  
**Dan Aurell – USA**

## SEPTEMBER 26th, 2025 – Friday

### **HALL A2**                      **SYMPOSIUM / BEE HEALTH** **09:00 – 10:30**                      **Resistance to Varroa**

09:00 – 09:15                      Open source Varroa resistance through breeding selection  
**Paul J P Jungels – Luxembourg**

09:15 – 09:30                      EurBeSt study on varroa resistance and relevant selection criteria in European honey bees  
**Ralph Büchler – Germany**

09:30 – 09:45                      The Good, the Bad and the Ugly: Insights and trends from a 20-year natural selection experiment on disease resistance in Gotland, Sweden  
**Barbara Locke Grandér – Sweden**

09:45 – 10:00                      Predicting the impact of Varroa under climate change: An individual based modelling approach  
**Hollie Pufal – United Kingdom**

10:00 – 10:15                      Co-evolution of honey bees, varroa and beekeepers over 15 years in Hawaii  
**Stephen Martin – United Kingdom**



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10:15 – 10:30 *Varroa destructor* infestation levels can be predicted by brood cell recapping rate and mite non-reproduction in honeybee colonies (*Apis mellifera*)  
**Marie-Lou Morin – Canada**

## SEPTEMBER 26th, 2025 – Friday

**HALL A2**  
**17:00 – 18:30** **SYMPOSIUM / BEE HEALTH**  
**Honey Bee Viruses**

17:00 – 17:15 Tracking the evolution of viral titers in colony sub-populations throughout the season and in response to varroa treatment strategie  
**Heather Bell – Canada**

17:15 – 17:30 Viral Exchange Between Honeybees and Greater Wax Moths: Ecological Drivers and Pathogenic Implications of Bee Densovirus 9  
**Magni Steintún – Denmark**

17:30 – 17:45 From Screening to Mechanism: Curcumin Emerges as a Key Natural Compound Against Israeli Acute Paralysis Virus in *Apis mellifera*  
**Shangning Yang – China**

17:45 – 18:00 High plasticity for many of the Bond bee population's varroa, colony development, foraging, and virus traits, in relation to year, season and varroa treatment  
**Joachim R De Miranda – Sweden**

18:00 – 18:15 Viral Infections: When and How Do Honey Bee Queens Become Infected  
**Esmail Amiri – USA**

18:15 – 18:30 Be-eRNA: Using next-generation sequencing to characterize the community of honey bee viruses from hive environmental samples  
**Kaitlin R. Deutsch – USA**

## SEPTEMBER 27th, 2025 – Saturday

**AUDITORIUM 15**  
**09:00 – 10:30** **SYMPOSIUM / BEE HEALTH**  
**The Fights Against Vespidea**

09:00 – 09:15 Insights into the management of the Asian hornet in South-West Germany: nest occurrences and hurdles in control strategies  
**Carolin Rein – Germany**

09:15 – 09:30 Preliminary results on the control of *Vespa velutina* using *Beauveria bassiana* in apiary environments within the GO BIOVEST Project  
**Francesc Xavier Munill Bernardich – Spain**

09:30 – 09:45 Remote detection and monitoring of invasive species of hornets (*Vespa velutina* and *Vespa mandarinia*) using acoustic tools  
**Huw Evans – USA**



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- 09:45 – 10:00 “NestSweeper” - An AI based method to track the yellow legged Asian hornet *Vespa velutina* in the UK  
**Norman L Carreck** – *United Kingdom*
- 10:00 – 10:15 Sustainable strategy of control for the hornet, *Vespa velutina*  
**Francis Saucy** – *Switzerland*
- 10:15 – 10:30 Influence of heat and humidity on the survival of the honey bees: A study within five *Apis mellifera* subspecies from the Mediterranean basin  
**Soledad Sagastume** – *Spain*

## SEPTEMBER 27th, 2025 – Friday

**Auditorium 15**  
**14:30 – 16:45**

### **SYMPOSIUM / BEE HEALTH** **Fighting Against Varroa**

- 14:30 – 14:45 Evaluation of Aluen CAP® for *Varroa destructor* control during a full season in migratory beekeeping systems  
**Elian Tourn** – *Argentina*
- 14:45 – 15:00 Effective summer varroa mite control with stabilized oxalic acid (VarroxSan) and minimal honey residue  
**Brandon Hopkins** – *USA*
- 15:00 – 15:15 Using Hyperthermia against the Varroa mite - 15 years of successfully working with the Varroa Controller  
**Wolfgang Wimmer** – *Austria*
- 15:15 – 15:30 Chemical Innovations in Varroa destructor Mite Control  
**Rassol Bahreini** – *Canada*
- 15:30 – 15:45 Sensitivity and Resistance to Amitraz and Amitraz-Based Products in Honey Bee Parasitic Mites  
**Michela Bertola** – *Italy*
- 15:45 – 16:00 The persistence of acaricides resistance in Varroa destructor population in Canada  
**Rassol Bahreini** – *Canada*
- 16:00 – 16:15 Chances and challenges in breeding for resistance to *Varroa destructor* – from basic principles to practical application  
**Martin Gabel** – *Germany*
- 16:15 – 16:30 Impact of Varroa destructor infestation on the survival, quality, and performance of honeybee queens (*Apis mellifera* L.) overwintered in banks  
**Andrée Rousseau** – *Canada*
- 16:30 – 16:45 The use of „Magnetto”, a tool for fast capturing of queens, dramatically improves and simplifies ecological Varroa treatment based on organic acids  
**Martin Hintersteiner** – *Austria*