

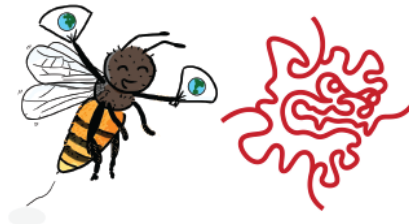
22<sup>nd</sup> – 26<sup>th</sup> March 2021



# OIST Mini-Symposia & COLOSS ASIA Okinawa

## PROGRAM BOOK

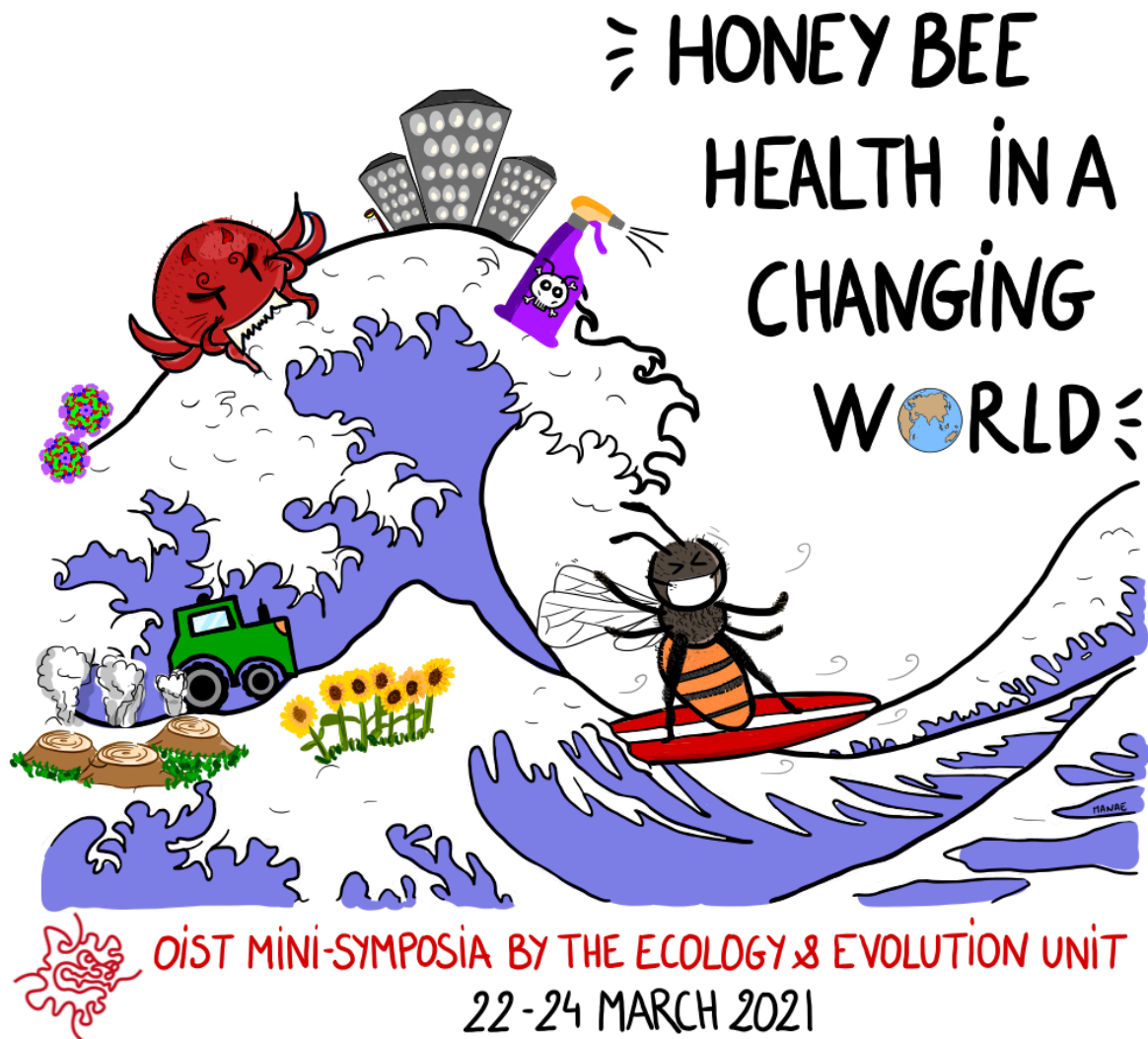
Hosted by the Okinawa Institute of Science and Technology  
Ecology and Evolution Unit



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OIST Mini-Symposia 22-24 March 2021



OIST MINI-SYMPOSIA BY THE ECOLOGY & EVOLUTION UNIT  
22-24 MARCH 2021

Drawing by M. Techer

# PROGRAM OIST Mini-Symposia 22-24 March 2021

Monday 22<sup>nd</sup> March 2021

Invited talks  
[[Zoom link](#)]

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|                                |  |
|--------------------------------|--|
| 18:30-18:50 JST<br><b>Live</b> | Opening ceremony<br>(Alexander) Sasha Mikheyev (OIST – Japan / ANU – Australia)  |
| 18:50-19:20 JST<br><b>Live</b> | Honey bee ecotoxicogenomics<br>Amy Paten (CSIRO – Australia)                     |
| 19:20-19:50 JST<br><b>Live</b> | Varroa mite genes interact with its viruses' load<br>Nurit Eliash (OIST - Japan) |

19:50-20:10 JST      **Spatial Chat or Break**

|                                |  |
|--------------------------------|--|
| 20:10-20:40 JST<br><b>Live</b> | A holistic view of global honey bee health<br>Peter Neumann (Institute of Bee Health, University of Bern, Switzerland) |
| 20:40-21:10 JST<br><b>Live</b> | Would a gene drive work in <i>Varroa destructor</i> ?<br>Brock Harpur (Purdue University - USA)                        |

21:10-21:30 JST      **Spatial Chat or Break**

|                                |  |
|--------------------------------|--|
| 21:30-22:00 JST<br><b>Live</b> | Varroa – challenges in management<br>Dennis vanEngelsdorp (University of Maryland - USA) |
| 22:00 JST                      | CLOSING SESSION  |

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Tuesday 23<sup>rd</sup> March 2021

Invited talks  
[Zoom link]

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|                                |  |
|--------------------------------|--|
| 18:30-19:00 JST<br><b>Live</b> | TBD<br>(Alexander) Sasha Mikheyev (OIST – Japan / ANU – Australia)   |
| 19:00-19:30 JST<br><b>Live</b> | The current status of beekeeping in Japan, focusing on the influence of bee diseases on Japanese beekeeping<br>Kiyoshi Kimura (NARO – Japan) |
| 19:30-20:00 JST<br><b>Live</b> | Surveillance and genetic characterization of Varroa mites in Japan<br>Mari Ogihara (NARO – Japan)  |

|                 |                              |
|-----------------|------------------------------|
| 20:00-20:20 JST | <b>Spatial Chat or Break</b> |
|-----------------|------------------------------|

|                                |  |
|--------------------------------|--|
| 20:20-20:50 JST<br><b>Live</b> | An overview of the honeybee genetic diversity and health in the Indian Ocean Islands<br>Hélène Delatte (CIRAD – Reunion Island / Madagascar)               |
| 20:50-21:20 JST<br><b>Live</b> | The dynamics of Deformed wing virus genotypes in varroa-infested honey bee colonies<br>Robert Paxton (Martin Luther University Halle-Wittenberg – Germany) |

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|                                |   |
|--------------------------------|---|
| 21:20-21:35 JST<br><b>Live</b> | BeeBiome Beta Version Resource<br>Benjamin Dainat (Agroscope – Switzerland) |
|--------------------------------|---|

|                 |                                      |
|-----------------|--------------------------------------|
| 21:35-22:00 JST | <a href="#">GENERAL DISCUSSION I</a> |
|-----------------|--------------------------------------|

|           |                 |
|-----------|-----------------|
| 22:00 JST | CLOSING SESSION |
|-----------|-----------------|

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Wednesday 24<sup>th</sup> March 2021

Invited talks  
[Zoom link]

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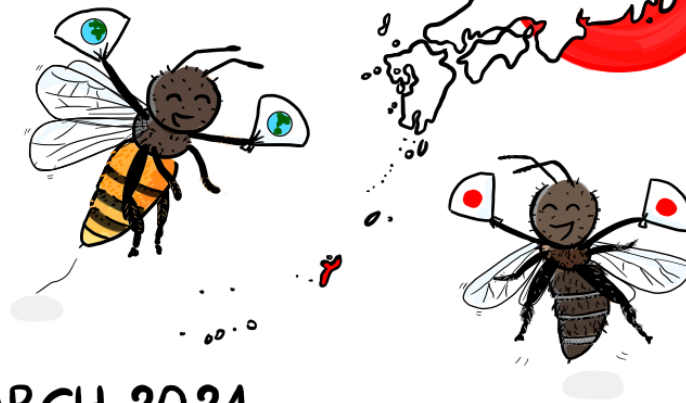
|                                    |  |
|------------------------------------|--|
| 18:30-19:00 JST<br><b>Live</b>     | Virus silencing in honey bees and their mites<br><b>Emily Remnant (University of Sydney - Australia)</b>   |
| 19:00-19:30 JST<br><b>Live</b>     | New method of injecting solution into the abdomen to overcome fixation delay of the midgut on making the histological specimens of honeybee worker<br><b>Tetsuro Inamoto (Kyoto Prefecture Livestock Division - Japan)</b> |
| 19:30-20:00 JST<br><b>Live</b>     | The gut microbiota affects the social network of honey bees<br><b>Philipp Engel (University of Lausanne - Switzerland)</b>   |
| 20:00-20:20 JST                    | <b>Spatial Chat or Break</b>   |
| 20:20-20:50 JST<br><b>Recorded</b> | When East meets West: The prevalence of pathogens and parasites in honey bees<br><b>Panuwan Chantawannakul (Chiang Mai University - Thailand)</b>  |
| 20:50-21:30 JST                    | <b>GENERAL DISCUSSION I</b>  |
| 21:30 JST                          | CLOSING OIST Mini-Symposia   |

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COLOSS ASIA Okinawa 25-26 March 2021

# COLOSS ASIA

## JAPAN OKINAWA 2021



25 MARCH 2021

ONLINE SCIENTIFIC TALKS

26 MARCH 2021

BEEKEEPERS SEMINAR



Drawing by M. Techer

# PROGRAM COLOSS Asia Okinawa 25-26 March 2021

Thursday 25<sup>th</sup> March 2021

Morning session (Scientific talks)  
[[Zoom link](#)]

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|                                 |   |
|---------------------------------|---|
| 09:40-10:00 JST:<br><b>Live</b> | Opening session<br><b>COLOSS Asia Okinawa committee members</b>     |
| 10:00-10:30 JST:<br><b>Live</b> | COLOSS and activities<br><b>Peter Neumann (President of COLOSS)</b> |

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|                                     |  |
|-------------------------------------|--|
| 10:30-10:50 JST:<br><b>Live</b>     | Perspective of genome editing aiming at building the better strains of the honey bee <i>Apis mellifera</i><br><b>Masatsugu Hatakeyama (NARO - Japan)</b> |
| 10:50-11:10 JST:<br><b>Live</b>     | What have we learnt studying Varroa destructor in Asia?<br><b>Huoqing Zheng (Zhejiang University - China)</b>  |
| 11:10-11:30 JST:<br><b>Live</b>     | The untold story of Varroa mite successful invasion unravelled by worldwide population genomics<br><b>Maeva Techer (OIST - Japan)</b>                    |
| 11:30-11:50 JST:<br><b>Recorded</b> | Establishment of a simple method for ex vivo honey bee cell culture capable of gene expression analysis<br><b>Kazuyo Watanabe (NARO - Japan)</b>         |
| 11:50-12:10 JST:<br><b>Live</b>     | Application of thiamethoxam in mustard adversely affects honey bee colonies<br><b>Amit Choudhary (Punjab Agricultural University - India)</b>            |

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Thursday 25<sup>th</sup> March 2021

Afternoon sessions (Scientific talks)

[[Zoom link](#)]

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#BREAKOUT ROOM 1

- 14:00-14:20 JST: Ecological treatment of Varroosis: Brood interruption techniques and application of oxalic acid  
**Recorded** Frías-Álvarez Ariadna (Spain)
- 14:20-14:40 JST: Study of the main causes of mortality of honey bee colonies *Apis mellifera intermissa* in Algeria  
**Live** Nouredine Adjlane (Mhamed Bougara University - Algeria)
- 14:40-15:00 JST: Removal of veterinary treatments and other residues from beeswax  
**Recorded** Alba Luna (INIA - Spain)
- 15:00-15:20 JST: Toxicity Effect of Five Essential Oils and their Components Derived from *Cymbopogon citratus*, *Eucalyptus globulus*, *Rosmarinus officinalis*, *Thymus schimperi*, *Trachyspermum ammi* against *Varroa destructor* in Laboratory Tests  
**Unconfirmed** Daniel Bisrat (Andong National University, Addis Ababa University – Korea & Ethiopia)

15:20-15:40 JST: **Spatial Chat or Break**

- 15:40-16:00 JST: Beekeeping industry in Iran: Current status and future directions  
**Recorded** Alireza Arab (University of Tehran - Iran)
- 16:00-16:20 JST: THERE AND BACK AGAIN – Deciphering the host specificity of *Varroa* spp. with population genetics  
**Live** Alexis Beaurepaire (University of Bern, Switzerland)
- 16:20-16:40 JST: Beekeeping in the meeting point of continents: From Asia to Europe  
**Live** Ashl Özkırım (Hacettepe University - Turkey)
- 16:40-17:00 JST: Polymorphism of COI gene in honey bees from different regions of Ukraine  
**Recorded** Roman A. Volkov (Yuriy Fedkovych Chernivtsi National University - Ukraine)
-

Thursday 25<sup>th</sup> March 2021

Afternoon sessions (Scientific talks)

[\[Zoom link\]](#)

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#BREAKOUT ROOM 2

|                  |   |
|------------------|---|
| 14:00-14:20 JST: | Observation of monthly metabolic changes in honey bee workers using <sup>1</sup> H NMR                                    |
| <b>Live</b>      | Saetbyeol Lee (Czech University of Life Sciences Prague - Czech Republic)   |
| 14:20-14:40 JST: | Combined effects of temperature and nutritional stress on TBARS level in <i>Apis mellifera</i>                            |
| <b>Recorded</b>  | Liudmyla Yazlovyska (Yuriy Fedkovych Chernivtsi National University, Ukraine)   |
| 14:40-15:00 JST: | The INSIGNIA project: a citizen science protocol for honeybee colony as bio-sampler for pesticides                        |
| <b>Recorded</b>  | Jozef van der Steen (Alveus AB Consultancy - The Netherlands)   |
| 15:00-15:20 JST: | Do novel insecticides and viral pathogens interact to harm honey bees?  |
| <b>Live</b>      | Yahya Al Naggar (Martin Luther University Halle-Wittenberg – Germany)   |
| 15:20-15:40 JST: | <b>Spatial Chat or Break</b>  |
| 15:40-16:00 JST: | Determination of some heavy metals and elements in honeybee and honey samples from Saudi Arabia                           |
| <b>Recorded</b>  | Dalal M. Aljedani (University of Jeddah - Saudi Arabia)   |
| 16:00-16:20 JST: | Bridging bee research and Asian beekeeping practice: how do beekeepers gain knowledge about good beekeeping practices?    |
| <b>Recorded</b>  | Lotta Fabricius Kristiansen (Swedish University of Agricultural Sciences - Sweden)  |
| 16:20-16:40 JST: | Honey Bee Watch: Using Citizen Science for the First Global Monitoring of Free-Living Colonies of all <i>Apis</i> Species |
| <b>Live</b>      | Raffaele Dall'Olio (BeeSources – Beekeeping Consultancy - Italy)  |
| 16:40-17:00 JST: | Disrupting Varroa – honeybee host interaction: A focus on chemosensory proteins   |
| <b>Live</b>      | Victoria Soroker (Volcani Institute - Israel)   |

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Friday 26<sup>th</sup> March 2021

Morning session (Scientific talks)  
[Zoom link]

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|                                     |   |
|-------------------------------------|---|
| 09:50-10:00 JST:<br><b>Live</b>     | Opening session<br>COLOSS Asia Okinawa committee members  |
| <hr/>                               |   |
| 10:00-10:20 JST:<br><b>Live</b>     | Dynamics of Temporal Transcriptomic and Epigenomic in Response to Lethal Viral Infection<br>Hongmei Li-Byarlay (Agricultural research and development program, Central State University, Wilberforce Ohio, USA)                   |
| 10:20-10:40 JST:<br><b>Recorded</b> | Draft genome sequences of the Japanese honey bee, <i>Apis cerana japonica</i> and comparative genomic analysis for honey bee health<br>Kakeru Yokoi (NARO - Japan)  |
| 10:40-11:00 JST:<br><b>Live</b>     | A potential probiotic, <i>Leuconostoc</i> sp. TBE-8 for honey bee, <i>Apis mellifera</i><br>Ming-Cheng Wu (National Chung Hsing University - Taiwan)  |
| 11:00-11:20 JST:                    | <b>Spatial Chat or Break</b>  |
| 11:20-11:40 JST:<br><b>Live</b>     | Evaluation of hygienic behaviour of <i>Apis mellifera</i> Linnaeus colonies by pin-killed brood method<br>Bharathi Mohindru (Punjab Agricultural University - India)  |
| 11:40-12:00 JST:<br><b>Live</b>     | Formulated Neonicotinoid Insecticides influence the Sugar Responsiveness and Orientation Behavior of Honey Bees ( <i>Apis Mellifera</i> ) Under Laboratory Condition<br>Muhammad Shoaib Saleem (University of Karachi - Pakistan) |
| 12:00-12:20 JST:<br><b>Live</b>     | The effect of dynamic diluted compounds in controlling Varroa mite population in honey bee colonies ( <i>Apis mellifera</i> )<br>Fatemeh Ghaziani (University of Tehran – Iran)   |

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Friday 26<sup>th</sup> March 2021

Afternoon Beekeeper Seminar (Japanese/English)

Language spoken -> Language translated

[Zoom link]

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|                             |   |
|-----------------------------|---|
| 13:30-13:45 JST:            | Bridging bee research and Asian beekeeping practice: how do beekeepers gain knowledge about good beekeeping practices?    |
| <b>Recorded EN -&gt; JP</b> | Lotta Fabricius Kristiansen (Swedish University of Agricultural Sciences - Sweden)  |
| 13:45-14:00 JST:            | Honey Bee Watch: Using Citizen Science for the First Global Monitoring of Free-Living Colonies of all <i>Apis</i> Species |
| <b>Recorded EN -&gt; JP</b> | Raffaele Dall'Olio (BeeSources – Beekeeping Consultancy - Italy) & Steve Rogenstein (The Ambeassadors)                    |
| 14:00-14:30 JST:            | 日本の養蜂場におけるミツバチヘギイタダニの浸潤状況及びその特性解析   |
| <b>Live JP -&gt; EN</b>     | Mari Ogihara 荻原 麻理 (NARO – Japan)   |
| 14:30-14:50 JST:            | Break   |
| 14:50-15:20 JST:            | An example of SDGs honey bee research bridging with local community: Honey and Coral Project                              |
| <b>Live JP -&gt; EN</b>     | Kirino Ryo 桐野龍 (Onna Village Public Office – Okinawa 恩納村役場)   |
| 15:20-15:40 JST:            | What genome sequencing has taught us on beekeeping pests spread and evolution? A perspective on the Varroa mite problem   |
| <b>Live EN -&gt; JP</b>     | マエヴァテシェル Maeva Techer (OIST – Japan)  |
| 15:40-16:00 JST:            | Beekeeping and management in tropical island: the example of Reunion Island in Indian Ocean                               |
| <b>Recorded EN -&gt; JP</b> | オリヴィエ・エスノー Olivier Esnault (衛生防御グループ GDS – Reunion Island, France)  |
| 16:00-17:00 JST:            | Open questions and discussion among beekeepers and researchers  |

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## Code of Conduct

- By participating in the OIST Mini-symposia (22<sup>nd</sup> to 24<sup>th</sup> March 2021) and COLOSS Asia Okinawa (25<sup>th</sup> to 26<sup>th</sup> March 2021), you agree to abide to this code of conduct
- If you do not agree or do not meet expected, collaborative, respectful behavior, your participation will be immediately revoked on all virtual platforms. In addition, your misconduct can be reported for future related conferences participation.

### Expected behavior

- Similarly, to any regular in-person meeting, you are required to treat everyone with respect, regardless of race, age, culture, ability, ethnicity or nationality, gender identity and expression, sexual orientation, marital status, religious affiliation, and socioeconomics status, etc.
- Provide your true professional identity, affiliation, and contact information at the registration and during sessions.
- Turn off your microphone and videos during Zoom session unless you are the speaker or asked to do so (to avoid technical issues with the high number of participants)

### Photos / Recording / Social Media Policy

- Many talks and virtual collaborative exchange will likely include unpublished data; you are required to ask the presenter or fellow participant before sharing with others and on social media.
- Live tweeting of presentations is allowed unless the speaker explicitly opts out by stating so at the start of his/her/their talk. Taking or sharing photos, videos are not permitted unless the presenter stated his/her/their consent – be considerate.



## Unacceptable Behaviors

*taken from GSA conferences* <https://genetics-gsa.org/tagc-2020/conference-code-of-conduct>

Unacceptable behaviors include, but are not limited to:

- Intimidating, harassing, abusive, discriminatory, derogatory, or demeaning speech or actions by any participant and at all related events
- Harmful or prejudicial verbal or written comments or visual images related to gender, gender expression, gender identity, marital status, sexual orientation, race, religion, political orientation, socioeconomic, disability or ability status, or other personal characteristics, including those protected by law
- Inappropriate use of nudity and/or sexual images (including presentation slides, posters, Slack channels, or Zoom chat)
- Deliberate intimidation or stalking
- Violating the rules and regulations of the online provider, Zoom
- Sustained disruption of scientific sessions or other events
- Unwelcome and uninvited attention or contact
- Real or implied threat of physical harm
- Real or implied threat of professional or financial damage or harm
- Photographing or reproducing slides of oral presentations and posters without permission
- Recording of scientific and other sessions without permission

## Report

In case of doubt or report need, contact the committee at [colossasia2021@gmail.com](mailto:colossasia2021@gmail.com)

## List of registered participants

| Speakers                  |                |                     |  |   |                    |                     |
|---------------------------|----------------|---------------------|--|---|--------------------|---------------------|
| Last Name                 | First Name     | Country             | Email                                    | Institute   | OIST Mini-Symposia | COLOSS ASIA Okinawa |
| Abou Kubaa                | Raied          | Italy               | Raied.aboukubaa@ipsp.cnr.it              | Researcher at Italian National Center, IPSP-Bari  | X                  |                     |
| Adamchuk                  | Leonora        | Ukraine             | leonora.adamchuk@gmail.com               | National University of Life and Environmental Sciences of Ukraine                           |                    | X                   |
| Adjlane                   | Noureddine     | Algeria             | adjlanenoureddine@hotmail.com            | University of Boumerdes, Department of Agronomy   | X                  | X                   |
| Aglagane                  | Abdessamad     | Morocco             | abdessamad.agl15@gmail.com               | University Ibn Zohr, Faculty of science Agadir  | X                  | X                   |
| Aguado                    | Daniel         | Spain               | daguadol@jccm.es                         | CIAPA   | X                  |                     |
| Akinbode Foluso           | Ologundudu     | Nigeria             | akinbodefoluso@gmail.com                 | Department of biology, federal university of technology Akure                               | X                  |                     |
| Akinwande                 | Kayode         | Nigeria             | akinkay20032001@yahoo.com                | -   | X                  |                     |
| Al Naggar                 | Yahya          | Germany             | yehia.elnagar@science.tanta.edu.eg       | Martin Luther University Halle-Wittenberg   | X                  | X                   |
| Aljedani                  | Dalal          | Saudi Arabia        | dr.daljedani@gmail.com                   | University of Jeddah  | X                  | X                   |
| Amiri                     | Esmail         | USA                 | e.amiri79@gmail.com                      | University of North Carolina at Greensboro  | X                  |                     |
| Arab                      | Alireza        | Iran                | alirezaarab83@gmail.com                  | University of Tehran  | X                  | X                   |
| Arjun                     | Rajini         | India               | rajitox@gmail.com                        | International Institute of Biotechnology and Toxicology (IIBAT)                             |                    | X                   |
| Arora                     | Jigyasa        | Japan               | jigyasa-arora@oist.jp                    | OIST  | X                  |                     |
| Bariselli                 | Sara           | United Kingdom      | smba94@live.com                          | Bangor University   |                    | X                   |
| Basso                     | Marilina       | Argentina           | basso@cae.enea.gov.ar                    | National Atomic Energy Commission   |                    | X                   |
| Beaurepaire               | Alexis         | Switzerland         | Alexis.Beaurepaire@vetsuisse.unibe.ch    | Institute of Bee Health, University of Bern   | X                  | X                   |
| Benedick                  | Suzan          | Malaysia            | suzanben@ums.edu.my                      | Universiti Malaysia Sabah   | X                  | X                   |
| Benito Murcia             | Maria          | Spain               | Mbmurcia@ucm.es                          | -   | X                  |                     |
| Bertolotti                | Alicia         | France              | alicia.bertolotti@anses.fr               | ANSES   | X                  |                     |
| Bevk                      | Danilo         | Slovenia            | danilo.bevk@nib.si                       | National Institute of Biology   |                    | X                   |
| Bisrat                    | Daniel         | Ethiopia            | daniel.bisrat@aau.edu.et                 | Addis Ababa University  |                    | X                   |
| Bouga                     | Maria          | Greece              | mbouga@aau.gr                            | Agricultural University of Athens   |                    | X                   |
| Boujawdeh                 | Nohad          | Lebanon             | nohadboujawdeh@gmail.com                 | NBJ Apiculture Consultancies  | X                  | X                   |
| Buendía-Abad              | María          | Spain               | mbuendia92@gmail.com                     | -   | X                  |                     |
| Bulacio Cagnolo           | Natalia        | Argentina           | bulacio.natalia@inta.gob.ar              | National Institute of Agricultural Technology (INTA)  | X                  |                     |
| Camoin                    | Margot         | New Caledonia       | resa@adecal.nc                           | New Caledonia honey bee health surveillance network   | X                  |                     |
| Carlson                   | David          | United States       | dacarls@gmail.com                        | USDA/ U. Florida  |                    | X                   |
| Castilhos                 | Dayson         | Brazil              | dayson.castilhos@yahoo.com.br            | UFERSA - Universidade Federal Rural do Semi-Árido   |                    | X                   |
| Chantawannakul            | Panuwat        | Thailand            | panuwat@gmail.com                        | University of Chiang Mai  | X                  | X                   |
| Chapman                   | Nadine         | Australia           | nadine.chapman@sydney.edu.au             | University of Sydney  | X                  |                     |
| Charriere                 | Jean-Daniel    | Switzerland         | jean-daniel.charriere@agroscope.admin.ch | -   | X                  |                     |
| Chauzat                   | Marie-Pierre   | France              | marie-pierre.chauzat@anses.fr            | European Reference Laboratory of honeybee health - ANSES                                    | X                  |                     |
| Cherevatov                | Alexandr       | Ukraine             | o.cherevatov@chnu.edu.ua                 | Yuriy Fedkovych Chernivtsi National University  |                    | X                   |
| Choudhary                 | Amit           | India               | amitento@pau.edu                         | Punjab Agricultural University  |                    | X                   |
| Colgan                    | Joe            | Germany             | tcolgan@uni-mainz.de                     | JGU Mainz   |                    | X                   |
| Costa                     | Cristina Amaro | Portugal            | amarocosta@esav.ipv.pt                   | Polytechnic Institute of Viseu  | X                  | X                   |
| Dall'Olio                 | Raffaele       | Italy               | raffaele.dalolio@gmail.com               | BeeSources - Beekeeping Consultancy, Council for Agricultural Research and Economics (CREA) | X                  | X                   |
| Dalmon                    | Anne           | France              | anne.dalmon@inrae.fr                     | INRAE - National Research Institute for Agriculture, Food and Environment                   | X                  | X                   |
| Dayioğlu                  | Miray          | Turkey              | miray.gur@gmail.com                      | -   | X                  |                     |
| de Groot                  | Grecia         | Argentina           | grecia.degroot@gmail.com                 | CONICET   |                    | X                   |
| Dearden                   | Neville        | United Kingdom      | n.dearden@sheffield.ac.uk                | University of Sheffield   |                    | X                   |
| Delatte                   | Helene         | Reunion, Madagascar | helene.delatte@cirad.fr                  | CIRAD, Reunion Island   | X                  |                     |
| Dietemann                 | Vincent        | Switzerland         | vincent.dietemann@agroscope.admin.ch     | Swiss Bee Research Centre (Agroscope)   | X                  | X                   |
| Dittmann                  | Tobias         | Germany             | t.dittmann@tskmv.de                      | Tierseuchenkasse Mecklenburg Vorpommern   |                    | X                   |
| Dojchinov                 | Greg           | Australia           | Greg.Dojchinov@csiro.au                  | Research Projects   | X                  |                     |
| Dora Veronika             | Rusznak        | Hungary             | dora.rusznak@mfa.gov.hu                  | Agricultural affairs, Embassy of Hungary  | X                  |                     |
| Doublet                   | Vincent        | Germany             | vincent.doublet@uni-ulm.de               | University of Ulm   | X                  |                     |
| du Rand                   | Ezette         | South Africa        | ezette.durand@up.ac.za                   | University of Pretoria  |                    | X                   |
| Duquesne                  | Veronique      | France              | veronique.duquesne@anses.fr              | ANSES   | X                  |                     |
| El-Obeid                  | Dany           | Lebanon             | delobeid@gmail.com                       | Faculty of Agriculture - Lebese University  |                    | X                   |
| Eliash                    | Nurit          | Israel              | norikachan@gmail.com                     | OIST  | X                  | X                   |
| Engel                     | Philipp        | Switzerland         | philipp.engel@unil.ch                    | University of Lausanne, Switzerland   | X                  |                     |
| Eynard                    | Sonia          | France              | sonia.eynard@inrae.fr                    | INRA  |                    | X                   |
| Fabricius Kristians Lotta |                | Sweden              | lotta.fabricius@slu.se                   | Swedish University of Agricultural Sciences   |                    | X                   |
| Fasasi                    | Kamilu Ayo     | Nigeria             | ayo.fasasi@uniosun.edu.ng                | Osun State University   |                    | X                   |
| Forsi                     | Mohammad       | Iran                | mforsi@gmail.com                         | Iran Veterinary Organization (Retired)  |                    | X                   |
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