

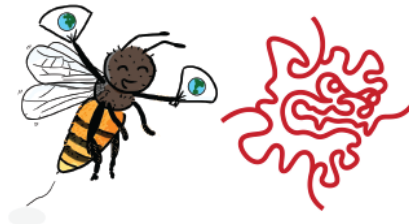
22<sup>nd</sup> – 26<sup>th</sup> March 2021



# OIST Mini-Symposia & COLOSS ASIA Okinawa

## PROGRAM BOOK

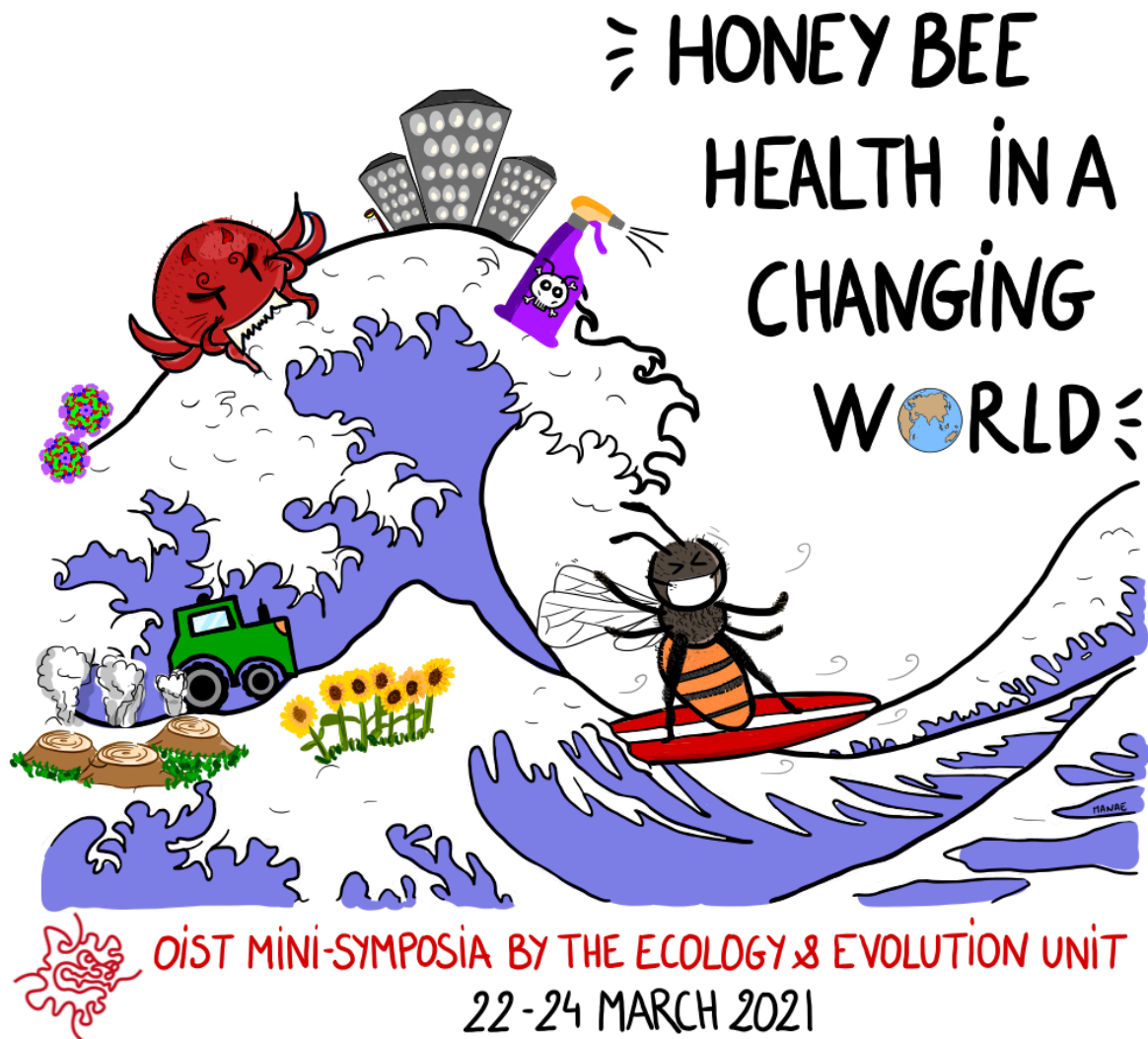
Hosted by the Okinawa Institute of Science and Technology  
Ecology and Evolution Unit



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OIST Mini-Symposia 22-24 March 2021



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 <b>Live</b>	Opening ceremony (Alexander) Sasha Mikheyev (OIST – Japan / ANU – Australia)
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18:50-19:20 JST <b>Live</b>	Honey bee ecotoxicogenomics Amy Paten (CSIRO – Australia)
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19:20-19:50 JST <b>Live</b>	Varroa mite genes interact with its viruses' load Nurit Eliash (OIST – Japan)
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19:50-20:10 JST	Spatial Chat or Break
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20:10-20:40 JST <b>Live</b>	A holistic view of global honey bee health Peter Neumann (Institute of Bee Health, University of Bern, Switzerland)
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20:40-21:10 JST <b>Live</b>	Would a gene drive work in <i>Varroa destructor</i> ? Brock Harpur (Purdue University – USA)
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21:10-21:30 JST	Spatial Chat or Break
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21:30-22:00 JST <b>Live</b>	Varroa – challenges in management Dennis vanEngelsdorp (University of Maryland – USA)
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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 <b>Live</b>	Bees facing Varroa and viruses over space and time: a historical study (Alexander) Sasha Mikheyev (OIST – Japan / ANU - Australia)
19:00-19:30 JST <b>Live</b>	The current status of beekeeping in Japan, focusing on the influence of bee diseases on Japanese beekeeping Kiyoshi Kimura (NARO – Japan)
19:30-20:00 JST <b>Live</b>	Surveillance and genetic characterization of Varroa mites in Japan Mari Ogihara (NARO – Japan)
20:00-20:20 JST	<b>Spatial Chat or Break</b>
20:20-20:50 JST <b>Live</b>	An overview of the honeybee genetic diversity and health in the Indian Ocean Islands Hélène Delatte (CIRAD – Reunion Island / Madagascar)
20:50-21:20 JST <b>Live</b>	The dynamics of Deformed wing virus genotypes in varroa-infested honey bee colonies Robert Paxton (Martin Luther University Halle-Wittenberg – Germany)
21:20-21:35 JST <b>Live</b>	BeeBiome Beta Version Resource 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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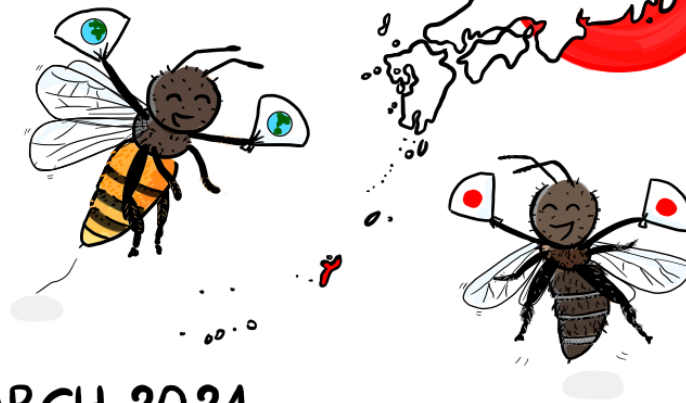
18:30-19:00 JST <b>Live</b>	Virus silencing in honey bees and their mites <b>Emily Remnant (University of Sydney - Australia)</b>
19:00-19:30 JST <b>Live</b>	New method of injecting solution into the abdomen to overcome fixation delay of the midgut on making the histological specimens of honeybee worker <b>Tetsuro Inamoto (Kyoto Prefecture Livestock Division - Japan)</b>
19:30-20:00 JST <b>Live</b>	The gut microbiota affects the social network of honey bees <b>Philipp Engel (University of Lausanne - Switzerland)</b>
20:00-20:20 JST	<b>Spatial Chat or Break</b>
20:20-20:50 JST <b>Recorded</b>	When East meets West: The prevalence of pathogens and parasites in honey bees <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 <b>Live</b>	Opening session COLOSS Asia Okinawa committee members
10:00-10:30 JST <b>Live</b>	COLOSS and activities Peter Neumann (President of COLOSS)

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

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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   |
| <b>Recorded</b> | <b>Frías-Álvarez Ariadna (Spain)</b>  |
| 14:20-14:40 JST | Study of the main causes of mortality of honey bee colonies <i>Apis mellifera intermissa</i> in Algeria   |
| <b>Live</b>     | <b>Noureddine Adjlane (Mhamed Bougara University - Algeria)</b>   |
| 14:40-15:00 JST | Removal of veterinary treatments and other residues from beeswax  |
| <b>Recorded</b> | <b>Alba Luna (INIA - Spain)</b>   |
| 15:00-15:20 JST | Toxicity Effect of Five Essential Oils and their Components Derived from <i>Cymbopogon citratus</i> , <i>Eucalyptus globulus</i> , <i>Rosmarinus officinalis</i> , <i>Thymus schimperi</i> , <i>Trachyspermum ammi</i> against <i>Varroa destructor</i> in Laboratory Tests |
| <b>Recorded</b> | <b>Chuleui Jung (Andong National University – Korea)</b>  |

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

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

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 Yazlovyt'ska (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 & Linde Morawetz (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>Recorded</b>	Raffaele Dall'Olio (BeeSources – Beekeeping Consultancy - Italy) & Steve Rogenstein (The Ambeassadors)
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 <b>Live</b>	Opening session COLOSS Asia Okinawa committee members
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10:00-10:20 JST <b>Live</b>	Dynamics of Temporal Transcriptomic and Epigenomic in Response to Lethal Viral Infection Hongmei Li-Byarlay (Agricultural research and development program, Central State University, Wilberforce Ohio, USA)
10:20-10:40 JST <b>Live</b>	Draft genome sequences of the Japanese honey bee, <i>Apis cerana japonica</i> and comparative genomic analysis for honey bee health Kakeru Yokoi (NARO - Japan)
10:40-11:00 JST <b>Live</b>	A potential probiotic, <i>Leuconostoc</i> sp. TBE-8 for honey bee, <i>Apis mellifera</i> Ming-Cheng Wu (National Chung Hsing University - Taiwan)
11:00-11:20 JST:	<b>Spatial Chat or Break</b>
11:20-11:40 JST <b>Live</b>	Evaluation of hygienic behaviour of <i>Apis mellifera</i> Linnaeus colonies by pin-killed brood method Bharathi Mohindru (Punjab Agricultural University - India)
11:40-12:00 JST <b>Live</b>	Formulated Neonicotinoid Insecticides influence the Sugar Responsiveness and Orientation Behavior of Honey Bees ( <i>Apis Mellifera</i> ) Under Laboratory Condition Muhammad Shoaib Saleem (University of Karachi - Pakistan)
12:00-12:20 JST <b>Live</b>	The effect of dynamic diluted compounds in controlling Varroa mite population in honey bee colonies ( <i>Apis mellifera</i> ) 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 & Linde Morawetz (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)
15:20-15:30 JST	Honey and Coral Project: past activities and future perspectives
<b>Live EN -&gt; JP</b>	Vienna Kowallik (OIST – Japan)
15:30-15:50 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>	マエヴァテシエル Maeva Techer (OIST – Japan)
15:50-16:10 JST	Beekeeping and management in tropical island: the example of Reunion Island in Indian Ocean
<b>Recorded EN</b>	オリヴィエ・エスノー Olivier Esnault (衛生防御グループ GDS – Reunion Island, France)
16:10-17:00 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
Abbas	Rachel	France	abbas.rach@gmail.com	Oniris		X
Abou Kubaa	Raied	Italy	Raied.aboukubaa@ips.cnr.it	Researcher at Italian National Center, IPSP-Bari	X	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	
Amoia	Serena	Italy	serena.amoia@ips.cnr.it	IPSP-CNR Bari	X	
Antúnez	Karina	Uruguay	kantunez03@gmail.com	Instituto de Investigaciones Biológicas Clemente Estable	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	X
Arora	Jigyasa	Japan	jigyasa-arora@oist.jp	Okinawa Institute of Science and Technology Graduate University	X	
Barbera	Riccardo	Italy	Riccardo.barbera@edu.unito.it	Università degli studi di Torino	X	
Bariselli	Sara	United Kingdom	smba94@live.com	Bangor University		X
Basso	Marilina	Argentina	basso@cae.cnea.gov.ar	National Atomic Energy Commission		X
Basualdo	Marina	Argentina	mbasu@vet.unicen.edu.ar	Facultad de Ciencias Veterinarias, Universidad Nacional del Centro de la Provincia de Buenos Aires	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
Blacquiere	Tjeerd	The Netherlands	blacqbee@blacqbee.nl	Retired from Wageningen University	X	
Bouga	Maria	Greece	mbouga@aau.gr	Agricultural University of Athens		X
Boujawdeh	Nohad	Lebanon	nohadboujawdeh@gmail.com	NBJ Apiculture Consultancies	X	X
Braimoh	Waheed	Nigeria	omokumo1@gmail.com	Kumofarm Nigeria Limited	X	
Branchiccela	Belén	Uruguay	belenbranchiccela@gmail.com	Instituto Nacional de Investigación Agropecuaria (INIA)	X	
Bucek	Ales	Japan	ales.bucek@oist.jp	Okinawa Institute of Science and Technology Graduate University	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	X
Cabirol	Amelie	Switzerland	amelie.cabirol@gmail.com	University of Lausanne	X	X
Camoin	Margot	New Caledonia	resa@adecal.nc	New Caledonia honey bee health surveillance network	X	
Campo	Eva	Italy	eva.campo.edu@gmail.com	Università degli studi di Torino	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	X
Chantawannakul	Panuwan	Thailand	panuwan@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
Choi	Myeongseok	South Korea	seokyda@nate.com	Korea Beekeeping Association	X	
Choudhary	Amit	India	amitento@pau.edu	Punjab Agricultural University		X
Christmon	Krisztina	U.S.A	kriszch@umd.edu	University of Maryland	X	
Colgan	Joe	Germany	tolgan@uni-mainz.de	JGU Mainz		X
Costa	Cristina Amaro	Portugal	amarocosta@esav.ipv.pt	Polytechnic Institute of Viseu	X	X
Dahle	Bjørn	Norway	bjorn@norbi.no	Norwegian Beekeepers Association	X	
Dainat	Benjamin	Switzerland	benjamin.dainat@agroscope.admin.ch	Swiss Bee Research Centre	X	
Dall'Olio	Raffaele	Italia	raffaele.dallolio@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	
Di Prisco	Gennaro	Italy	gennaro.diprisco@ips.cnr.it	IPSP-CNR Institute for Sustainable Plant Protection - National Research Council of Italy		X
Dickie	Lucy	Japan	lucy.dickie1@oist.jp	Okinawa Institute of Science and Technology Graduate University	X	
Dietemann	Vincent	Switzerland	vincent.dietemann@agroscope.admin.ch	Swiss Bee Research Centre (Agroscope)	X	X
Ding	Gulling	China	dinggulling@caas.cn	Chinese Academy of Agricultural Sciences (CAAS)	X	X

## List of registered participants

Speakers						
Last Name	First Name	Country	Email	Institute	OIST Mini-Symposia	COLOSS ASIA Okinawa
Dittmann	Tobias	Germany	t.dittmann@tskmv.de	Tierseuchenkasse Mecklenburg Vorpommern	X	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	
Doya	Kenji	Japan	doya@oist.jp	OIST	X	
Du Rand	Ezette	South Africa	ezette.durand@up.ac.za	University of Pretoria	X	X
Duquesne	Veronique	France	veronique.duquesne@anses.fr	ANSES	X	
El-Obeid	Dany	Lebanon	delobeid@gmail.com	Faculty of Agriculture - Lebabese University	X	X
Eliash	Nurit	Israel	norikachan@gmail.com	Okinawa Institute of Science and Technology Graduate University	X	X
Engel	Philipp	Switzerland	philipp.engel@unil.ch	University of Lausanne, Switzerland	X	
Erez	Tal	Israel	tal.erez2@mail.huji.ac.il	Volcani centre		X
Esnault	Olivier	Reunion	olivier.esnault@gds974.re	GDS Reunion	X	X
Evans	Jay	U.S.A	jay.evans@usda.gov	USDA-ARS Bee Research Lab	X	X
Evison	Sophie	UK	sophie.evison@nottingham.ac.uk	University of Nottingham	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@unosun.edu.ng	Osun State University		X
Fevre	Damien	New Zealand	damien.fevre@postgrad.otago.ac.nz	University of Otago		X
Forsi	Mohammad	Iran	mforsi@gmail.com	Iran Veterinary Organization (Retired)		X
Frias-Alvarez	Ariadna	Spain	arifrias@msn.com	Las Palmas de Gran Canaria University		X
Fuad	Abdullah	Iraq	fuad.abdullah@su.edu.krd	Salahaddin university-Erbil	X	
Gajda	Anna	Poland	anna_gajda@sggw.edu.pl	Warsaw University of Life Sciences	X	X
Galanis	Anastasios	Greece	galanis@fleming.gr	-		X
Galarza	Egoitz	Spain	egoitzgg@gmail.com	ERBEL, Iberian Bee Breeding Association		X
Gao	Jing	China	gaojing@caas.cn	Chinese Academy of Agricultural Sciences	X	
Garncarek	Olga	Poland	owsocka7@gmail.com	University of Warmia and Masuria	X	
Genesis	Chong	United States	gchon004@ucr.edu	-	X	
Ghaziani	Fatemeh	Iran	ghaziani@ut.ac.ir	University of Tehran		X
Gimenez Martinez	Pablo	Argentina	beedarian@gmail.com	National University of Mar del Plata	X	X
Girod	Vincent	France	vincent.girod@adaoccitanie.org	ADA Occitanie (Professional beekeeper association)	X	
Giurfa	Martin	France	martin.giurfa@univ-tlse3.fr	Paul Sabatier University		X
Gregorc	Ales	Slovenia	ales.gregorc@um.si	University of Maribor, Faculty of Agriculture and Life Sciences		X
Grindrod	Isobel	United Kingdom	i.r.grindrod@edu.salford.ac.uk	The university of salford		X
Guettlin	Ayaka	Switzerland	aguetlin@student.ethz.ch	-	X	
Gusachenko	Olesya	France	oligonucleotide@gmail.com	-	X	
Hammda	Mohamed	Belgique	mhammda@gmail.com	Research	X	
Harpur	Brock A.	U.S.A	b.harpur@gmail.com	Purdue University	X	
Hatakeyama	Masatsugu	Japan	sawfly@affrc.go.jp	National Agriculture and Food Research Organization (NARO)		X
Hatjina	Fani	Greece	fhadjina@gmail.com	Institute of Animal Science, ELGO 'DIMITRA',- GREECE	X	
Hernan	Pietronave	Argentina	pietronave.hernan@inta.gob.ar	Instituto Nacional de Tecnologia Agropecuaria INTA	X	
Holanda Neto	Joao Paulo	Brazil	jpholandaneto@gmail.com	Federal Institution of Education, Science and Technology of Sertao Pernambucano	X	X
Hu		China	huruoyang@aliyun.com	CAAS	X	
Hulaj	Beqe	Kosovo	bhulaj@yahoo.com	Albanian	X	
Inamoto	Tetsuro	Japan	honeybear0528@kci.biglobe.ne.jp	Kyoto Sangyo University	X	
Jabal-Uriel	Clara	Spain	c.jabaluriel@outlook.es	CIAPA-IRIAF	X	
Jobart	Benoit	Reunion	benoit.jobart@cirad.fr	CIRAD		X
Jung	Chuleui	Korea Republic	cjung@andong.ac.kr	Andong National University	X	X
Kezic	Nikola	Croatia	nkezic@agr.hr	Penzioner	X	
Kimura	Kiyoshi	Japan	kimura@affrc.go.jp	Institute of Livestock and Grassland Science, NARO	X	X
Kiseleva	Larisa	Japan	larisa.kiseleva@oist.jp	OIST Graduate University	X	
Kistler	Tristan	France	tristan.kistler@inrae.fr	INRAE	X	
Klaithin	Kanokwan	Thailand	kanokwan.entomo@gmail.com	Chiang Mai University		X
Knautz	Timm	Germany	tim.knautz@ibacon.com	CRO	X	
Kowalik	Vienna	Japan	vienna.kowalik@oist.jp	OIST	X	X
Kucukozmen	Billur	Turkey	billurkucukozmen@gmail.com	Hacettepe University	X	X
Kudo	Miyako	Japan	miyako.kudo@oist.jp	Okinawa Institute of Science and Technology Graduate University	X	
Kunkel	Grace	United States	grace@projectapism.org	Project Apis m.	X	X
Kunz	Martin	United Kingdom	kunzm@bra.org.uk	International Bee Research Institute	X	X
Lamothe Boudrea	Maggie	Canada	maggielamotheboudreau@gmail.com	UlaVal		X
Latham	Caroline	Japan	kamadutoo@yahoo.com	Meio	X	
Lee	Saetbyeol	Czech Republic	lees@af.czu.cz	Czech University of Life Sciences Prague	X	X
Li-Byarlay	Hongmei	U.S.A	hli-byarlay@centralstate.edu	Agricultural research and development program, Central State University		X
Lin	Zheguang	China	z.lin@yzu.edu.cn	Yangzhou University	X	X



## List of registered participants

Speakers							
Last Name	First Name	Country	Email	Institute	OIST Mini-Symposia	COLOSS ASIA Okinawa	
Luna	Alba	Spain	albalunajimenez@gmail.com	National institute for research in agricultural and food technology (INIA)			X
Lund	Jennifer	United States	jennifer.lund@maine.gov	State of Maine	X		X
Mani	Kannan	Israel	ahilkannanbdu@gmail.com	ARO-Volcani Research Center	X		
Massei	Aurora	Italy	massei.aurora@gmail.com	None	X		
Matsuyama	Shigeru	Japan	matsuyama.shigeru.fu@u.tsukuba.ac.jp	Graduate School of Life and Environmental Sciences, University of Tsukuba	X		
Mazur	Ewa	Poland	ewa_mazur@sggw.pl	Warsaw University of Life Sciences	X		X
McGhee	Daniel	United Kingdom	danielmcghee@hotmail.com	Glasgow and District Beekeepers Association			X
Mclean	John	New Zealand	jands.mclean@gmail.com	Apiculture New Zealand Science and Research Focus Group	X		X
Mikheyev	Sasha (Alexander)	Australia	sasha@homologo.us	ANU, OIST	X		X
MinOo	Hlaing	Myanmar	drhminoo@gmail.com	-	X		
Mohindru	Bharathi	India	bharathiento@pau.edu	Punjab Agricultural University			X
Molinatto	Giulia	Italy	giulia.molinatto@gmail.com	University of Torino	X		
Morawetz	Linde	Austria	linde.morawetz@ages.at	Austrian Agency for Health and Food Safety (AGES)			X
Moro	Arrigo	Switzerland	arrigo.mr@gmail.com	Bern University			X
Moses	Alele Okello	Uganda	alelem21@gmail.com	District Entomology Officer, Otuke District Local Government	X		
Neumann	Peter	Switzerland	peter.neumann@vetsuisse.unibe.ch	Institute of Bee Health, Vetsuisse Faculty, University of Bern	X		X
Nicault	Lea	The Netherlands	lea.nicault@wur.nl	Wageningen University and Research	X		
Oddie	Melissa	Norway	melissa.oddie@norbi.no	Norges birøkerlag	X		
Ogihara	Mari	Japan	ogiharam590@affrc.go.jp	NARO, Tsukuba	X		
Olgun	Tuğçe	Turkey	tugce.olgun@tarimorman.gov.tr	Aegean Agricultural Research Institute	X		X
Ozgor	Erkay	Cyprus	erkayozgor@gmail.com	Cyprus International University			X
Özkırım	Asli	Turkey	asli.ozkirim@gmail.com	Hacettepe University			X
Ozsoy Taskiran	Neslihan	Turkey	neslihn@gmail.com	-	X		
Palamar	Ostap	Ukraine	palamar.ostap@chnu.edu.ua	Chernivtsi National University			X
Palanichamy	Pradeep	Japan	pradeep.palanichamy@oist.jp	OIST	X		
Panziera	Delphine	Netherlands	delphine.panziera@wur.nl	Wageningen University and Research	X		X
Parejo	Melanie	Spain	melanie.parejo@ehu.eus	University of the Basque Country	X		
Park	Ana	USA	Minhae81@gmail.com	-	X		
Paten	Amy	Australia	amy.paten@csiro.au	CSIRO, Australia	X		
Paxton	Robert J.	Germany	robert.paxton@zoologie.uni-halle.de	Martin Luther University Halle-Wittenberg, Germany	X		
Peloquin	Aya	Japan	aya.peloquin@oist.jp	OIST	X		
Pereira	Daniel	Brazil	santiagoesam@gmail.com	Embrapa Amazônia Oriental	X		
Pluta	Patrycja	Polska	patrycja.pluta@gmail.com	University of Warmia and Mazury	X		
Poirot	Benjamin	France	benjamin.poirot@apinov.com	API NOV			X
Porrini	Leonardo	Argentina	leoporrini@gmail.com	Centro de Investigación en abejas sociales, Universidad nacional de mar del plata			X
Pylypko	Kateryna	Ukraine	pylypkokatya2999@gmail.com	Taras Shevchenko National University of Kyiv	X		
Qiang	Huang	China	qiang-huang@live.com	Honeybee Research Institute, Jiangxi Agricultural University, Nanchang, China			X
Raheem	Dotsha	Iraq	dotsha.raheem@su.edu.krd	Salahaddin University-Erbil			X
Rangel	Juliana	U.S.A	jrangel@tamu.edu	Texas A&M University	X		X
Remnant	Emily	Australia	emily.remnant@sydney.edu.au	University of Sydney	X		
Rizwan	Muhammad	Pakistan	rizwan_entomologist@yahoo.com	University of Agriculture Faisalabad Pakistan	X		
Rodriguez	Miguel Angel	Spain	miguelangel.rodriguez@vetopharma.com	UCM			X
Rogenstein	Steve	Germany	ambeessadors@gmail.com	The Ambeessadors			X
Russo	Romina	Argentina	romina.russo@gmail.com	Instituto Nacional de Tecnologia Agropecuaria	X		
Santrac	Violeta	Bosnia & Herzegovina	vsantrac@yahoo.com	Public Veterinary Institute of the Republic of Srpska "Dr Vaso Butozan" Banaj Luka	X		
Sawe	Thomas	Tanzania	tcorodius87@gmail.com	Tanzania Forestry Research Institute	X		X
Scannapieco	Alejandra	Argentina	alejandrascannapieco@gmail.com	Consejo Nacional de Investigaciones Cientificas y Tecnicas (CONICET) - Instituto Nacional de tecnologia Agropecuaria (INTA)			X
Seltzer	Rya	Israel	rya3683@gmail.com, ryaseltzer@gmail.com	School of Zoology George S. Wise Faculty of Life Sciences, Tel Aviv University	X		X
Senchuk	Tetiana	Ukraine	Senchuktanya.bee@gmail.com	National Research Center "PI Prokopovich Institute of Beekeeping"	X		
Shafiey	Hassan	Iran	h.shafiey@gmail.com	Ferdowsi University of Mashhad	X		
Shahzad	Ali	Pakistan	shahzad.ali@uvas.edu.pk	University of Veterinary and Animal Sciences, Lahore			X
Shoaib Saleem	Muhammed	Pakistan	shoaibsaleemkhan@gmail.com	University of Karachi			X
Šima	Peter	Slovakia	psima@koppert.sk	Koppert s.r.o. (Koppert Biological Systems)	X		
Skerbis	Suzana	Slovenia	Suzana.Skerbis@vf.uni-lj.si	University of Ljubljana			X
Soroker	Victoria	Israel	sorokerv@volcani.agri.gov.il	Volcani Institute			X
Staron	Martin	Slovakia	martin.staron@nppc.sk	-	X		
Stevanovic	Jevrosima	Serbia	rocky@vet.bg.ac.rs, jevrosima.stevanovic@gmail.com	University of Belgrade	X		X
Tattisulu	Sual	Turkey	sualtattisulu@gmail.com	Hacettepe University			X
Techer	Maeva	Japan	maeva.angelique.techer@gmail.com	OIST	X		X
Teixeira	Andreia	Germany	andreia.teixeira90@gmail.com	Martin-Luther University	X		

## List of registered participants

Speakers						
Last Name	First Name	Country	Email	Institute	OIST Mini-Symposia	COLOSS ASIA Okinawa
Teixeira	José Luis	Portugal	joseluisteixeira1@hotmail.com	University Trás-os-Montes e Alto Douro	X	
Theodorou	Panagiotis	Germany	panatheod@gmail.com	MLU Halle-Wittenberg	X	
Tipton	Elizabeth	Japan	tiptoemfm@yahoo.com	CCBC	X	
Toporcak	Juraj	Slovakia	toporcaktoporcak@gmail.com	University of Veterinary Medicine and Pharmacy	X	X
Tornow	Peter	Germany	peterornow@web.de	University of Halle-Wittenberg	X	
Ullah	Amjad	Pakistan	amjadullah609@gmail.com	Kohat University of Science and Technology Kohat Pakistan	X	X
Valizadeh	Pegah	Iran	valizadehpegah@gmail.com	Animal Science Research Institute of Iran		X
Valon	Mustafi	Germany	valon.mustafi@outlook.de	-	X	
Van den wildenbe	John	The Netherlands	degroeneimkerij@gmail.com	-	X	
van der Steen	Jozef	The Netherlands	alveusab@outlook.com	Alveus AB Consultancy		X
VanEngelsdorp	Dennis	U.S.A	dvane@umd.edu	University of Maryland	X	
Vejsnæs	Flemming	The Netherlands	fv@biavl.dk		X	
Visick	Oliver	United Kingdom	ov32@sussex.ac.uk	University of Sussex	X	X
Volkov	Roman	Ukraine	r.volkov@chnu.edu.ua	Dept. of Molecular genetics and biotechnology, Yuriy Fedkovych Chernivtsi National University, Chernivtsi	X	
Watanabe	Kazuyo	Japan	kazuwata@affrc.go.jp	NARO		X
Williams	Anthony	United Kingdom	anthony.williams@dmu.ac.uk	De Montfort University		X
Woodford	Luke	United Kingdom	lw86@st-andrews.ac.uk	University of St Andrews	X	X
Wu	Ming-Cheng	Taiwan	mccwu12@gmail.com	Department of Entomology, Nation Chung Hsing University	X	X
Xu	TianGang	Japan	t.xu@oie.int	OIE	X	
Y N	Venkatesh	India	venkateshyn27@gmail.com	ICAR- Central Agroforestry Research Institute		X
Yazlovitska	Liudmyla	Ukraine	l.yazlovitska@chnu.edu.ua	Yuriy Fedkovych Chernivtsi National University		X
Yelkovan	Sedat	Turkey	syelkovan@bingol.edu.tr	Bingol University		X
Yokoi	Kakeru	Japan	yokoi123@affrc.go.jp	Institute of Agrobiological Sciences (NIAS), National Agriculture and Food Research Organization		X
Yuntao	Lu	chinese	2768291001@qq.com	Shandong Agricultural University	X	
Zareef	Haroon	Germany	aaron.zareef@outlook.com	CAU - Kiel University	X	
Zheng	Huoqing	China	hqzheng@zju.edu.cn	Zhejiang University	X	X