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Dear fellow beekeepers, scientists and friends

I want to warmly welcome you to the 47<sup>th</sup> Apimondia Congress held in Istanbul Turkey. These past two years have been challenging, first with COVID and now with unprovoked fighting in Ukraine. The 47<sup>th</sup> Congress was planned in Ufa, Russia in 2021 and then postponed due to COVID to 2022. Even with all these challenges you are in store for a great Congress.

The ApiEXPO has brought together beekeeping related vendors and others, where you can browse the booths, make new acquaintances, and strike up a business deal perhaps. The

scientific program is full and we have many roundtables and workshops to allow time to interact with scientists and beekeepers from around the world on issues of interest to all. Lastly, for the first time we are streaming the Congress and you can still sign up for virtual attendance. We will stream all sessions and also have a "news and events" broadcast each morning and evening as a way to bring the Congress to life and highlight particular themes and events. Even with our virtual option we are delighted to be meeting in person as we feel this personal interaction between new and old friends is what makes an Apimonida Congress the world class event that it is. Enjoy being together here after such a long time of isolation and restricted travel.

As we welcome you to Istanbul, 24-28 August 2022 please be sure to make time to take in the city and or sign up for technical tours. The venue is the same one we used in 2017 and so some of you will know what a wonderful setting this venue provides for a successful ApiExpo and Apimondia Congress. For those of you who could not join us in 2017, now is your chance to enjoy this vibrant city where East meets West. The food and culture in Istanbul are amazing and I also encourage you to find time to go out on the Bosphorus for a dinner cruise or simply take a ferry across to the Eastern side of the city. There is much to see, taste and enjoy in Istanbul in addition to the Apimondia Congress.

I look forward to speaking with many of you over the course of the Congress. I can be found at the Apimondia booth in the ApiEXPO when I'm not in another session. Stop by our booth and I'll sell you a t-shirt or hat! We are excited to see the two bids from Europe for our 49<sup>th</sup> Congress in 2025 and voting on that venue will take place on the final day.

I look forward to a great meeting and thank you for coming to Istanbul, or joining us online in a virtual way.

Best regards,

Jeff Pettis
Apimondia President

# **SPONSORS**

### **PLATINUM SPONSOR**



## **SILVER SPONSORS**







# **BRONZE SPONSOR**



# **SUPPORTED BY**









# **COMMITTEES**

### **ORGANIZING COMMITTEE**

### **CONGRESS PRESIDENT**

Dr. Jeff Pettis APIMONDIA PRESIDENT

### **APIMONDIA FEDERATION**

Dr. Peter Kozmus APIMONDIA VICE PRESIDENT

Riccardo Jannoni - Sebastianini APIMONDIA SECRETARY GENERAL

### APIMONDIA SCIENTIFIC & REGIONAL COMMISSION PRESIDENTS

Dr. Cristina Mateescu - Romania APITHERAPY COMMISSION

Prof. Geraldine Wright - United Kingdom BEE BIOLOGY COMMISSION

Dr. Fani Hatjina - Greece BEE HEALTH COMMISSION

Norberto Luis Garcia - Argentina BEEKEEPING ECONOMY COMMISSION

Lucas Alejandro Garibaldi - Argentina POLLINATION AND BEE FLORA COMMISSION

Dr. Nicola J. Bradbear - United Kingdom RURAL DEVELOPMENT COMMISSION

Etienne Bruneau - Belgium TECHNOLOGY AND QUALITY COMMISSION

David Mukomana - Zimbabwe AFRICA COMMISSION
Lucas Martinez - Argentina AMERICAS COMMISSION

Dr. Cleofas Rodriguez Cervancia - Phillippines ASIA COMMISSION

Robert Chlebo - Slovakia EUROPE COMMISSION

Jodie Goldsworthy - Australia OCEANIA COMMISSION

### **OTHER MEMBERS**

**Enid Brown** 

James Edge

Maria Alejandra Palacio

### **SCIENTIFIC COMMITTEE**

Dr. Cristina Mateescu - Romania

Prof. Geraldine Wright - United Kingdom

Dr. Fani Hatjina - Greece

Norberto Luis Garcia - Argentina

Lucas Alejandro Garibaldi - Argentina

Dr. Nicola J. Bradbear - United Kingdom

Etienne Bruneau - Belgium

Maria Alejandra Palacio - Argentina

APITHERAPY COMMISSION

BEE BIOLOGY COMMISSION

BEE HEALTH COMMISSION

BEEKEEPING ECONOMY COMMISSION

POLLINATION AND BEE FLORA COMMISSION

RURAL DEVELOPMENT COMMISSION

TECHNOLOGY AND QUALITY COMMISSION

# **GENERAL INFORMATION**

#### REGISTRATION

Registration Desks will be in service as below;

23 August 11:00 - 20:00 24, 25, 26, 27 August 08:30 - 19:00

#### NAME BADGE

All participants and accompanying persons are kindly requested to wear their name badges throughout the Congress to be able to participate in the scientific sessions, exhibition and all other scheduled activites.

### **EXHIBITION**

Exhibition will take place in the B5 floor of the Istanbul Congress Center on below dates:

24 August 2022 10:00 - 19:00 25, 26, 27 August 2022 09:00 - 19:00

### **TOURS**

Tour desk is located in the Entrance Floor of the Congress Center. For Daily Istanbul Tours reservation has to be made until 12.00 on the day before the departure date.

For the Official Technical Tour reservations will be accepted until 13.00 on August 26<sup>th</sup> Participants registered in advance for the technical tour has to receive their vouchers from the Tour Desk until 15.00 on August 26<sup>th</sup>.

#### INTERNET SERVICE

Free Wi-Fi service is available in the Congress Venue. Beside the wifi, an internet corner is located in the B2 Floor where all scientific sessions will be organized.

#### LANGUAGE

Congress Language is English. Simultaneous translation in English, Spanish, French and Turkish will be available in the Opening & Closing Ceremonies of the Congress.

Simultaneous translation in English, Spanish, French and Turkish will be available in the Uskudar Hall 1 & 2, which is the main scientific session room where all the Major Symposiums will be organized.

### CERTIFICATE

Participants may receive their Certificate of Attendance by showing their name badge to the assigned computers in the registration area.

### LIABILITY AND INSURANCE

Registration fees do not include the insurance of participants against personal accidents, sickness and cancellations by any party, theft, loss or damage to personal possessions. Participants are advised to take out adequate personal insurance to cover travel, accommodation, cancellation and personal effects. Congress organisers cannot accept liability for personal injuries sustained, or for loss or damage of property belonging to meeting participants, either during, or as a result of the meeting.

# **ORAL PRESENTATION GUIDELINE**

- The time allocated for each presentation is 15 minutes including Q&A (Presentation: 10 mins, Q&A: 5 mins)
- · Presenters should speak in English for the presentation. (except the Turkish Speakers)
- · Presentation slides must be in English. (Including Turkish Presentations)
- · Supported file types for the presentations are Microsoft Power Point, Adobe Acrobat.
- · Presenters has to submit their presentation at least 2 hours before their session to Speaker Room which is located in B2 Floor.

Presentations will be delivered to the related Session Hall from the Speaker Room.

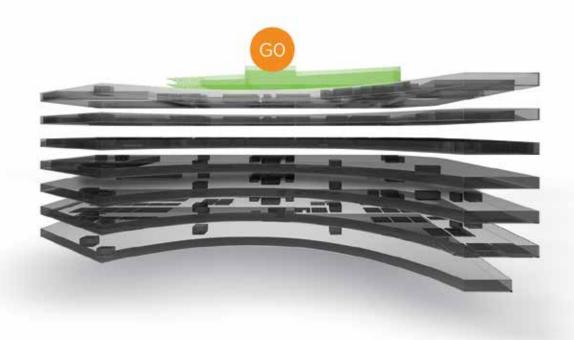
- · Presenters are prohibited from using personal computers at the session rooms for their presentations.
- · We kindly ask presenters to be in the session hall at least 10 minutes before the session starts.
- · We kindly ask presenters not to leave the hall until the session finishes.

  Additional questions may be asked.
- Presenters should contact moderators of sessions and inform about their participation in the session at least 10 min before the symposium starts.

# **OVERVIEW**



# **CONGRESS VENUE OVERVIEW**



GO Floor ----- REGISTRATION AREA

B2 Floor ----- HARBIYE AUDITORIUM

B2 Floor ----- CONGRESS SESSION ROOMS

B2 Floor ----- E-POSTER AREA

B2 Floor ----- SPEAKER ROOM

B2 Floor ----- INTERNET AREA

B3 Floor ----- PRAYER ROOM

B4 Floor ----- MAIN RESTAURANT & LOUNGE

B5 Floor ----- WBA - WORLD BEEKEEPING AWARDS

B5 Floor ----- EXHIBITION AREA

B6 Floor ----- CAR PARK

B7 Floor ----- CAR PARK

# APİTERA

Balparmak's functional expert bee products' brand Apitera, transforms the healing power of bees into a natural, effective support for healthy life.





# **PROGRAM AT A GLANCE**

### AUGUST 24th, 2022

Exhibition Opening : 11:00 B5 FLOOR Exhibition : 11:00 - 19:00 B5 FLOOR

Opening Ceremony : 17:30 - 19:00 B2 FLOOR / Harbiye Auditorium

### **AUGUST 25th, 2022**

Congress Scientific Sessions : 09:00 - 18:15 B2 FLOOR / 3 Parallel Halls Apimondia General Assembly : 16:00 - 19:00 B2 FLOOR / Beylerbeyi Hall

Exhibition : 09:00 - 19:00 B5 FLOOR

### AUGUST 26th, 2022

Congress Scientific Sessions : 09:00 - 18:15 B2 FLOOR / 3 Parallel Halls

Exhibition : 09:00 - 19:00 B5 FLOOR

WBA Award Ceremony : 18:00 B2 FLOOR / Beylerbeyi Hall

### **AUGUST 27th, 2022**

Congress Scientific Sessions : 09:00 - 18:15 B2 FLOOR / 3 Parallel Halls

Exhibition : 09:00 - 19:00 B5 FLOOR

Closing Ceremony : 18:00 B2 FLOOR / Harbiye Auditorium

### AUGUST 28th, 2022

Technical Tours : 08:30 - 18:30

# SCIENTIFIC PROGRAM

# AUGUST 25<sup>th</sup>, 2022 - Thursday

USKUDAR HALL 1 & 2 09:00 - 13:00	MAJOR SYMPOSIUM / HONEY PURITY AND AUTHENTICITY Moderators: Norberto Garcia
09:00 - 09:40	Protecting Honey Purity: The USP Identity Standard  Gina Clapper & Norberto García
09:40 - 09:50	BREAK
09:50 - 10:10	The Honey Fraud Mitigation Guidance  Karen Everstine
10:10 - 10:30	Supply Chain/Supplier Relationship/ GBP on Supplemental Feeding Enrique Bedascarrasbure
10:30 - 10:40	BREAK
10:40 - 11:00	Audit Strategy. True Source Honey Program. <i>Eric Wenger &amp; Jill Clark</i>
11:00 - 11:20	Economic Anomalies  Etienne Bruneau
11:20 - 11:40	Decision Criteria in Honey Purity Testing Stephan Schwarzinger
11:40 - 12:00	Pure and Authentic Honey in Human Health  Cristina Mateescu
12:00-12:15	Harmony and Reciprocity within Indigenous Peoples' Food Systems: The Key Role Bees Play in Sustainability <b>Yon Fernández-de-Larrinoa</b>
12:15 - 13:00	QUESTIONS TO THE PANEL
13:00 - 14:00	LUNCH BREAK
USKUDAR HALL 3 09:00 - 11:00	SYMPOSIUM / BEE HEALTH MONITORING EFFECT OF PATHOGENS AND PESTS - 1 Moderators: Fani Hatjina & Dirk de Graaf
09:00 - 09:15	The Horizon 2020 B-GOOD project of the European Commission paves the way towards healthy and sustainable beekeeping within the European Union <i>Dirk C. De Graaf</i>
09:15 - 09:30	Tropilaelaps spp; Risk Assessment for Türkiye Levent Aydın
09:30 - 09:45	Are oxytetracycline – resistant isolates of Paenibacillus larvae circulating across Saskatchewan beekeeping operations? <i>Oleksii Obshta</i>
1	

09:45-10:00	International risk assessment tools: the FAO survey to investigate on antimicrobial resistance, antimicrobial use, the good beekeeping practices and the biosecurity measures in beekeeping <i>Marco Pietropaoli</i>
10:00 - 10:15	Analysis of Pathogens Associated with Winter Colony Losses in Canada <b>Stephen F. Pernal</b>
10:15 - 10:30	Effect of abscisic and p-coumaric acids as food supplements and stimulants of the celular immunological system of Africanized hybrids of Apis mellifera <i>Elissa Chavez Hernandez</i>
10:30 - 10:45	Artificial rearing of "Galleria mellonella" and effect of polystyrene and two biopesticides on larval feeding behavior <b>Dalida Darazy</b>
10:45 - 11:00	LAMP-technology: bringing molecular virus detection to the kitchen table Dirk C. De Graaf
11:00 - 11:15	BREAK
USKUDAR	SYMPOSIUM / BEE HEALTH
HALL 3	MONITORING EFFECT OF PATHOGENS AND PESTS II
11:15 - 13:15	Moderators: Noa Simon-Delso & Mustafa Muz
11.15 11.20	Delle ed estate in 1500 de estate Minero estation Novembre de Continue
11:15 - 11:30	Pathophysiological Effects of the Microsporidium Nosema ceranae Infection on Worker Honey Bees (Apis mellifera). Serhat Solmaz
11:30 - 11:45	Worker Honey Bees (Apis mellifera).
	Worker Honey Bees (Apis mellifera).  Serhat Solmaz  Chitosan-based gel application on model bees (Apis mellifera L.) for healing bite wounds caused by Varroa destructor
11:30 - 11:45	Worker Honey Bees (Apis mellifera).  Serhat Solmaz  Chitosan-based gel application on model bees (Apis mellifera L.) for healing bite wounds caused by Varroa destructor  Aslı Özkırım  Improving Winter Losses With Caspian Method
11:30 - 11:45 11:45 - 12:00	Worker Honey Bees (Apis mellifera).  Serhat Solmaz  Chitosan-based gel application on model bees (Apis mellifera L.) for healing bite wounds caused by Varroa destructor  Aslı Özkırım  Improving Winter Losses With Caspian Method  Mackenzie Nielsen  American foulbrood risk assessment: Paradigm shift from an individual hive to a "herd health monitoring" in Canadian beekeeping industry
11:30 - 11:45 11:45 - 12:00 12:00 - 12:15	Worker Honey Bees (Apis mellifera).  Serhat Solmaz  Chitosan-based gel application on model bees (Apis mellifera L.) for healing bite wounds caused by Varroa destructor  Aslı Özkırım  Improving Winter Losses With Caspian Method  Mackenzie Nielsen  American foulbrood risk assessment: Paradigm shift from an individual hive to a "herd health monitoring" in Canadian beekeeping industry  Elemir Simko  Does fungicide exposure or increased bacterial virulence predispose honey bees to european foulbrood during blueberry pollination in north america?
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EMIRGAN HALL 09:00 - 13:15	ROUND TABLE OF ASIA  Moderator: Cleofas Rodriguez Cervancia
	SPEAKERS  Mohd Zulkifli Mustafa - University Sains Malaysia  Orawan Duangphakdee - King Mongkut's University of Technology Thonburi, Thon Buri (KMUTT Maria Amelita C. Estacio - University of the Philippines Los Banos
09:00 - 11:00 11:00 - 11:15 11:15 - 13:15	Best Practices for Sustainable Stingless Beekeeping  BREAK  Establishment of Standard for Stingless Bee Honey

13:15 - 14:00

**LUNCH BREAK** 

USKUDAR HALL 1 & 2 14:00 - 16:00	SYMPOSIUM / BEEKEEPING TECHNOLOGY & QUALITY HONEY PURITY AND AUTHENTICITY Moderators: Asli Özkök
14:00 - 14:15	Chromatographic Determination of Foreign Diastase Adulterated Honey by Harnessing the Enzyme-Origin Differences ismail Emir Akyıldız
14:15 - 14.30	Identification of the Rice Syrup Adulterated Honey by Introducing a Candidate Marker Compound for Brown Rice Syrup <b>Dilek Uzunöner</b>
14:30 - 14:45	Honey Adulteration Testing Update  Klaus Beckmann
14:45 - 15:00	Tackling honey fraud by identifying functional relationships between adulteration tests <i>Uta Peters</i>
15:00 - 15:15	New untargeted evaluation techniques in honey by means of LC-Orbitrap-HRMS <i>Jule Hansen</i>
15:15 - 15:30	Elucidating the False Positive Tendency at AOAC 998.12 C-4 Sugar Test for Pine Honey Samples ismail Emir Akyıldız
15:30 - 15:45	Analysis of volatile compounds – fingerprinting of mono-floral honeys. <b>Peter Tebbe</b>
15:45 - 16:00	A robotized light microscope system for automated melissopalynology analysis of honey Accurate and real-time pollen recognition powered by deep learning networks. <b>Pau Cardellach Lliso</b>
16:00 - 16:15	BREAK

USKUDAR HALL 3 14:00 - 16:00	SYMPOSIUM / BEE HEALTH METHODS TO CONTROL PATHOGENS AND PARASITES Moderators: Victoria Soroker & Mustafa Muz
14:00 - 14:15	Active and efficient honeybee probiotics against AFB disease. <b>İhsan Soytemiz</b>
14:15 - 14:30	Widespread dispersal of Vairimorpha (Nosema) ceranae in the giant honey bee, Apis dorsata, in Thailand <i>Guntima Suwannapong</i>
14:30 - 14:45	"Apilactobacillus kunkeei" from Four Species of "Apis" Can Reduce "Vairimorpha" ("Nosema") "ceranae" Infection in the Giant Honey Bee, "Apis dorsata" Fabricius, 1793 <i>Sanchai Naree</i>
14:45 - 15:00	How EM® probiotic for bees influence on gut microbiota composition of honeybees? <i>Ivana Tlak Gajger</i>
15:00 - 15:15	Plant derived molecules as alternative substitutes to control honey bee varoosis: Essential oils as a case study <i>Omar Er Rguibi</i>
15:15 - 15:30	Heat treatment against Varroa in an autonomous beekeeping system Rya Seltzer
15:30 - 15:45	Efficacy of double-stranded RNA for the large-scale control and prevention of sacbrood virus in Apis cerana (Hymenoptera: Apidae) apiaries <b>Yun Sang Cho</b>
15:45 - 16:00	Social and individual immunity following virus infection in honey bee (Apis mellifera) <i>Victoria Soroker</i>
16:00 - 16:15	BREAK
EMIRGAN HALL 14:00 - 16:00	SYMPOSIUM / APITHERAPY BEE PRODUCTS IN HUMAN AND VETERINARY CLINICAL TRIALS - 1 Moderators: Ali Timuçin Atayoğlu & Cristina Mateescu
14:00 - 14:15	The Efficacy of Propolis Extracts as a Food Supplement in Patients with Covid-19 Betül Değer Kulaksız
14:15 - 14:30	Impact of intrauterine infusion of the honey/propolis mix in normal postpartum dairy cows: Preliminary study <i>Rejean Cleophas Lefebvre</i>
14:30 - 14:45	Clinical Trials of Propolis EPP-AF® - from Safety studies until COVID-19 hospitalized patients Andresa A Berretta
14:45 - 15:00	Bioavaibility of polyphenols from poplar propolis in men Jean Francois Landrier
15:00 - 15:15	Philippine stingless bee Tetragonula biroi (Friese) propolis lowers blood pressure through inhibition of the Angiotensin Converting Enzyme (ACE)  Maria Amelita Celino Estacio

15:15 - 15:30	Does oral care with propolis affect the development of oral mucositis in pediatric oncology patients: a randomized controlled clinical study  **Asli Elif Tanuğur Samancı**
15:30 - 15:45	Clinical evaluation of a Sustained Release System based on a Propolis and natural oils biomembrane facial mask to treat acne Andresa A Berretta
15:45 - 16:00	The potential of Madu Kelulut (Heterotrigona Itama sp Honey) as a Functional Food for Dopamine Booster and Depression Prevention <i>Mohd Zulkifli Mustafa</i>
16:00 - 16:15	BREAK
USKUDAR	SYMPOSIUM / BEEKEEPING TECHNOLOGY & QUALITY
HALL 1 & 2	METHODS OF ANALYSES OF BEE PRODUCTS
16:15 - 18:15	Moderators: Aslı Elif Tanuğur Samancı
16:15 - 16:30	Antibacterial activity – new honey qualitative standard reflecting biological properties of honey  Juraj Majtan
16:30 - 16:45	Monitoring of some quality parameters of Bingol honey at different temperatures and in different storage containers for 12 months. <i>İnan Dursun</i>
16:45 - 17:00	Single Pot In-Situ Aqueous Derivatization and Subsequent Determination of Streptomycin and Dihydrostreptomycin Residues in Honey by Means of Mass Spectrometry <b>Sezer Acar</b>
17:00 - 17:15	Determination of glyphosate, aminomethylphosphonic acid, glufosinate and its acetyl-metabolites in honey by IC-MS/MS Kurt Peter Raezke
17:15 - 17:30	Effect of Heat Treatment on Invertase, Diastase, and HMF (Hydroxymethylfurfural) in Honey Harvested in Turkey  Aslı Elif Tanuğur Samancı
17:30 - 17:45	Advances in ISO standardization of bee pollen  Ufuk Alpat
17:45 - 18:00	A recommendation for chemical standardization of propolis and propolis-based products Hasan Hüseyin Oruç
18:00 - 18:15	Effect of different parameters on the antioxidant capacity of propolis extracted by ultrasound-assisted extraction (UAE)  Fazıl Güney

USKUDAR HALL 3	SYMPOSIUM / BEEKEEPING FOR RURAL DEVELOPMENT BEEKEEPING AND RURAL LIVELIHOODS - 1
16:15 - 18:00	Moderators: Nicola Bradbear & Santiago Rivas
16:15 - 16:30	Beekeeping development and potential of bee products in GAP Provinces (Turkey) <i>Şahin Karahan</i>
16:30 - 16:45	Explain how our beekeepers cooperatives contribute to develop the rural areas. We buy together from more than 1.000.000 of beehives in Spain. <i>Ramón Rodríguez Monje</i>
16:45 - 17:00	The purpose of beekeeping in rural development  Janet Lowore
17:00 - 17:15	Beekeeping as a source of income for rural women in Issyk-Kul region, the Kyrgyz Republic <i>Dilbara Ismailovna Muratova</i>
17:15 - 17:30	Developing a beekeeping enterprise in select rural areas in the Philippines Anna Locsin
17:30 - 17:45	Bringing Back Bees & Beeks: Re-Initiating Apis cerana bee keeping with young beekeepers of Kerala (India)  Jose Louies
17:45 - 18:00	Capacity building for beekeeping combining virtuality with Farmer Field Schools (Dominican Republic)  Santiago Rivas
EMIRGAN	SYMPOSIUM / APITHERAPY
HALL 16:15 - 18:15	BEE PRODUCTS IN HUMAN AND VETERINARY CLINICAL TRIALS - 2  Moderators: Ali Timuçin Atayoğlu & Cristina Mateescu
16:15 - 16:30	Evaluation of the effect of Anatolian propolis on Covid-19 in healthcare professionals <b>Enes Güler</b>
16:15 - 16:30 16:30 - 16:45	
	Enes Güler  Effect of propolis on the treatment of subclinical mastitis in dairy cows
16:30 - 16:45	Enes Güler  Effect of propolis on the treatment of subclinical mastitis in dairy cows Neringa Sutkeviciene  Brown poplar propolis titrated in polyphenol and Covid-19 in real life: What interests?
16:30 - 16:45 16:45 - 17:00 17:00 - 17:15	Enes Güler  Effect of propolis on the treatment of subclinical mastitis in dairy cows Neringa Sutkeviciene  Brown poplar propolis titrated in polyphenol and Covid-19 in real life: What interests?  Claude Nonotte Varly  From the hive to the office. Uses if propolis in dentistry
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We began producing under the Yılmaz Food"Canpetek" brand by bringing the years of apiculture experience with the Comb Honey, blossom honey and pine honey in the early 1990s. Canpetek attaches utmost importance to the studies on Food Safety and Tracebility in all stages from raw material purchase to the shipment.

# AUGUST 26th, 2022 - Friday

USKUDAR HALL 1 & 2 09:00 - 13:00	MAJOR SYMPOSIUM / CLIMATE CHANGE Moderator: Etienne Bruneau
09:00 - 09:40	Chalenges linked to Climate Change and his observe and projected Weather Extremes <i>Etienne Bruneau</i>
09:40 - 09:50	BREAK
09:50 - 10:30	How to improve biological resilience to climate and pathogens?  Coby van Dooremalen
10:30 - 10:40	BREAK
10:40 - 11:00	Future Perspective of Beekeeping in MENA (Middle East North Africa) Region Under Scenarios of Climate Change.  Nizar Haddad
11:00 - 11:20	How to maintain and increase natural food ressources for our bees? Lucas Garibaldi
11:20 - 11:30	BREAK
11:30 - 11:50	How to secure the incomes of professional beekeepers facing a lack of production stability and market volatility <i>Norberto Garcia</i>
11:50 - 12:10	Digital tools help the beekeepers in front of Climate Changes  Orianne Rolin
12:10 - 13:00	QUESTIONS TO THE PANEL
13:00 - 14:00	LUNCH BREAK
USKUDAR	SYMPOSIUM / BEEKEEPING FOR RURAL DEVELOPMENT
HALL 3	BEEKEEPING AND RURAL LIVELIHOODS WORLDWIDE - 2
09:00 - 10:45	Moderators: Megan Denver & Vera Lucia Imperatriz Fonseca
09:00 - 09:15	Development efforts to advance good practices and bee health for increasing honey production by rural beekeepers of the Kingdom of Saudi Arabia <i>Nuru Adgaba Mohammed</i>
09:15 - 09.30	Natural beekeeping for visitor attractions and public spaces  Paula Carnell
09:30 - 09:45	Making beekeeping accessible for everyone: Breaking down the barriers of Disability in Uganda <i>Phionah Birungi</i>
09:45 - 10:00	Local experience: Concrete and cardboard for an ecological and economical hive (Togo) <i>Kodjo Logou Agossou</i>

10:00 - 10:15	Mobile Honey: Open-source traceability for honey and beeswax in Ghana <i>Giacomo Ciriello</i>
10:15 - 10:30	First detection of Nosema ceranae and black queen cell virus in Ghana <i>Lucija Žvokelj</i>
10:30 - 10:45	Report on the effectiveness of control measures in response to an outbreak of severe infestations of Aethina tumida in apiaries across Bono East Region, Ghana <b>Stephen Adu</b>
10:45 - 11:15	BREAK
USKUDAR HALL 3 11:15 - 13:00	SYMPOSIUM / BEEKEEPING FOR RURAL DEVELOPMENT FORESTS, BEES AND LIVELIHOODS  Moderators: Nicola Bradbear & Irfan Kandemir
11:15 - 11:30	Promoting beekeeping and conservation in bioreserve area in Turkey: A success story of Ali Nihat Gökyiğit Foundation (ANG) Irfan Kandemir
11:30 - 11:45	Planning Migratory Beekeeping with a Genetic Algorithm Based Approach for Sustainable Precision <i>Emine Özçelik</i>
11:45 - 12:00	Sustainable Agriculture for Migratory Beekeepers Considering Urbanization Plans <i>Emine Özçelik</i>
12:00 - 12:15	Integration of Beekeeping into Acacia-Based Industrial Forestry: A New Perspective <i>Muhamad Pangky Sucahyono</i>
12:15 - 12:30	Stationary microbeekeeping protocol improve a quantitative and qualitative properties of tropical honey  Orawan Duangphakdee
12:30 - 12:45	Climate change threatens the conservation of an endangered Brazilian stingless bee species <b>Vera Lucia Imperatriz Fonseca</b>
12:45 - 13:00	Technology of wild hive beekeeping and of other bashkir traditional crafts Aglyam Sharipov
13:00 - 14:00	LUNCH BREAK
EMIRGAN	SYMPOSIUM / BEE BIOLOGY
HALL 09:00 - 10:45	BEE BEHAVIOUR, PHYSIOLOGY AND GENETICS  Moderators: Dilek Muz & Raquel de Sousa
09:00 - 09:15	Adenosine signaling regulates the wingbeat frequency of Apis mellifera upon stress response  Yu Chun Lin
09:15 - 09:30	The permeability of cell cappings to gases, volatiles, pathogens and acaricides Alena Bruce Krejci

09:30 - 09:45	Evaluation under field conditions of the effect of genetic origin, environment, and time of year on the characteristics of collected pollen, produced bee bread and nutritional status of Apis mellifera <i>Maria Alejandra Palacio</i>
09:45 - 10:00	Vitellogenin gene: A powerful genetic marker for the determination of honey bee subspecies <i>Ayça Özkan Koca</i>
10:00 - 10:15	Investigation of Bee Bread Use Efficiency in (Bombus terrestris L.) Before Social Phase <i>Salim Aktürk</i>
10:15 - 10:30	A new Acaricidal Compound Against Varroa Stephen F. Pernal
10:30 - 10:45	Behavioural regulation of mineral salt intake in the adult worker honey bee <i>Raquel de Sousa</i>
10:45 - 11:00	BREAK
USKUDAR	SYMPOSIUM / APITHERAPY
HALL1&2	INNOVATE TECHNOLOGIES IN API-PRODUCTS AND APITHERAPY
14:00 - 15:45	Moderator: Badiaa Lyoussi
14:00 - 14:15	Proteomic studies and its antimicrobial activity of honeybee venom collected from Apis dorsata, Apis cerana, Apis mellifera and Apis florea species of Karnataka - India. <b>Bhargava Hunkunda Radhakrishna</b>
14:15 - 14:30	Development of cream formulations enriched with honeybee (Apis mellifera L.) venom and bee products Aslı Elif Tanuğur Samancı
14:30 - 14:45	Immunomodulating Effect of water-soluble propolis extracts of green, red propolis and brown propolis (WEEP-GBR) <i>Jiheon Lee</i>
14:45 - 15:00	Propolis: Sustainability for the Honeybee - Sustainable Medicine for man? James Townend Fearnley
15:00 - 15:15	Simultaneous Optimization of Extraction Yield, Phenolic Compounds and Antioxidant Activity of Moroccan Propolis Extracts: Improvement of Ultrasound-Assisted Technique Using Response Surface Methodology <i>Badiaa Lyoussi</i>
15:15 - 15:30	An important product in the development of effective alternative nanocomposites for use in medical and environmental areas: A honey bee silk <b>Sual Tatlisulu</b>
15:30 - 15:45	Current status of bee venom research and industrialization in Korea Sang Mi Han
15:45 - 16:00	BREAK
USKUDAR	SYMPOSIUM / BEE HEALTH
HALL 3	LOOKING TOWARDS RESISTANT BEES
14:00 - 16:00	Moderators: Fani Hatjina & Steve Rogenstein
14:00 - 14:15	The potential use of fermented bee pollen as a probiotic supplement for bees Adriana Cristina Urcan
14:15 - 14:30	Breeding honey bees for low Varroa growth (LVG) in Canada Ernesto Guzman Novoa
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14:30 - 14:45	Honey Bee Watch: an international scientific initiative for the protection of survivor colonies  Steve Rogenstein
14:45 - 15:00	The nature of a survivor: population dynamics of Varroa destructor in a resistant, commercial honeybee (Apis mellifera) population over the active season <i>Melissa Oddie</i>
15:00 - 15:15	Comparison of the Performance of Four Honeybee Breeds (Carnica, Italian, Meda and a Meda-Carnica Hybrid) in the Mountainous Areas of Western Iran <b>Mokhtar Ghaffari</b>
15:15 - 15:30	A review on genetic resistance to the Varroa mite in honey bees Mohammad Razmkabir
15:30 - 15:45	Determination of Expression Levels of Some Candidate Genes Responsible for Grooming Behavior in Muğla honey bee (Apis mellifera anatoliaca) population bred against Varroa <i>Dilek Kabakçı</i>
15:45 - 16:00	Keep it simple: the power of ranking test results in the context of breeding for resilient honey bees  *Dirk de Graaf*
16:00 - 16:15	BREAK
EMIRGAN	SYMPOSIUM / BEEKEEPING TECHNOLOGY & QUALITY - ECONOMY
HALL	BEE PRACTICES AND PRODUCTS
14:00 - 16:00	Moderators: Ufuk Alpat
<b>14:00 - 16:00</b> 14:00 - 14:15	Moderators: <i>Ufuk Alpat</i> Monitoring internal conditions in honey bee colonies during the winter period in different apiaries in north-western Spain  Ana Diéguez Antón
	Monitoring internal conditions in honey bee colonies during the winter period in different apiaries in north-western Spain
14:00 - 14:15	Monitoring internal conditions in honey bee colonies during the winter period in different apiaries in north-western Spain  Ana Diéguez Antón  Comparison of different preservation treatments and the effect on quality descriptor parameters in bee pollen
14:00 - 14:15 14:15 - 14.30	Monitoring internal conditions in honey bee colonies during the winter period in different apiaries in north-western Spain  Ana Diéguez Antón  Comparison of different preservation treatments and the effect on quality descriptor parameters in bee pollen  Enrique Mejias  Mapping the conceptual structure of beekeeping from 1981 to 2020
14:00 - 14:15 14:15 - 14.30 14:30 - 14:45	Monitoring internal conditions in honey bee colonies during the winter period in different apiaries in north-western Spain  Ana Diéguez Antón  Comparison of different preservation treatments and the effect on quality descriptor parameters in bee pollen  Enrique Mejias  Mapping the conceptual structure of beekeeping from 1981 to 2020  Shehu Folaranmi Gbolahan Yusuf  How ready are beekeepers for Precision Apiculture Systems (P.A.S.)? A pan-European survey
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14:00 - 14:15  14:15 - 14:30  14:30 - 14:45  14:45 - 15:00  15:00 - 15:15  15:15 - 15:30	Monitoring internal conditions in honey bee colonies during the winter period in different apiaries in north-western Spain Ana Diéguez Antón  Comparison of different preservation treatments and the effect on quality descriptor parameters in bee pollen Enrique Mejias  Mapping the conceptual structure of beekeeping from 1981 to 2020 Shehu Folaranmi Gbolahan Yusuf  How ready are beekeepers for Precision Apiculture Systems (P.A.S.)? A pan-European survey Philippos Vardakas  Speaking of Bees Ted Dennard  Organic Beekeeping Businesses in Turkey: Economic Structure and Sustainability Tunay Kılıçin  Physical, Chemical Features and Mineral Substance Profile of Turkish Pine Honey

USKUDAR HALL 1 & 2 16:15 - 17:15	ROUND TABLE: BEKEEPING IN THE WORLD  Moderated by Apimondia Federation
16:15 - 17:15	Apimondia Presidents will discuss issues in each area of the globe and issues affecting beekeepers and bees
USKUDAR HALL 3 16:15 - 17:15	WORKSHOP: BREEDING FOR RESISTANT BEES Moderator: Fani Hatjina
16:15 - 17:15	BREEDING FOR RESISTANT BEES  Panellists: Raquel De Sousa & Pierre Giovennazzo & Ernesto Guzman-Navoa & Melissa Oddie
EMIRGAN HALL 16:15 - 18:15	SYMPOSIUM / BEEKEEPING TECHNOLOGY & QUALITY BEE PRACTICES AND BREEDING Moderator: Pierre Giovenazzo
16:15 - 16:30	Virtual Reality in Training of Beekeeping: Seeing Future Through Virtual Hives Sedat Sevin
16:30 - 16:45	Online blooming reporting system for beekeepers  Ole Kilpinen
16:45 - 17:00	Effects of Different Levels of Chelated Mineral Supplement (Bonza®Bee) On the Population Size and Brood Rearing in Honey Bee Colonies Reza Bideshki
17:00 - 17:15	Monitoring honeybees' health using environmental DNA (eDNA) contained in honey <b>Solenn Patalano</b>
17:15 - 17:30	Advances in palynological analysis of bee pollen loads  Aslı Özkök
17:30 - 17:45	The strenuous road toward honeybee stock self-sufficiency  Pierre Giovenazzo
17:45 - 18:00	Effects of Various Mechanical Factors on Honeybee Sperm  Abdulkadir Kaya
18:00 - 18:15	Comparison of the chromatographic and palynological methods used to identify the botanical origin of propolis: Which method is more reliable?  Etil Güzelmeriç



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# AUGUST 27<sup>th</sup>, 2022 - Saturday

USKUDAR HALL 1 & 2 09:00 - 13:00	MAJOR SYMPOSIUM/ NATURE BASED BEEKEEPING  Moderators: Nicola Bradbear & Dickson Biryomumaisho
09:00 - 09:20	Introduction to Nature Based Beekeeping  Nicola Bradbear
09:20 - 09:40	Nature based commercial beekeeping in North America  Tucka Saville
09:40 - 09:50	BREAK
09:50 - 10:10	Beekeeping practices to improve colony resilience Sébastien Bonjour & Anne Dalmon
10:10 - 10:30	Economic and environmental reality of nature-based beekeeping in Africa Janet Lowore & Giacomo Ciriello
10:30 - 10:40	BREAK
10:40 - 11:00	Nature based beekeeping in South America. <i>Marta Soneira</i>
11:00 - 11:20	Treatment-free beekeeping Fani Hatjina
11:20 - 11:30	BREAK
11:30 - 11:50	Inflation-free beekeeping  Janet Lowore & Dickson Biryomumaisho
11:50 - 12:10	Importance of nature-based beekeeping for human health  Cristina Mateescu
12:10 - 13:00	QUESTIONS TO THE PANEL
13:00 - 14:00	LUNCH BREAK
USKUDAR HALL 3 09:00 - 11:00	SYMPOSIUM / BEE BIOLOGY REPRODUCTIVE BIOLOGY, CRYOCONSERVATION AND BEE PRODUCTS Moderators: M. S. Reddy & Raquel de Sousa
09:00 - 09:15	Metabolite support of long-term storage of sperm in the spermatheca of honeybee queens <b>Zhenguo Liu</b>
09:15 - 09:30	Instrumental insemination of bee queens in the Volga region. Creating a laboratory <b>Dmitry Lvovich Maslov</b>
09:30 - 09:45	Advances in cryopreservation of honeybee embryos: Optimisation of the first steps <b>Florence Guignot</b>
09:45 - 10:00	Relation between seminal fluid proteins and semen quality in Apis mellifera. Maria Alejandra Palacio

10:00 - 10:15	Validation of Calcein Violet as a new marker of semen membrane integrity in Apis mellifera drones  Sophie Egyptien
10:15 - 10:30	Cryopreservation of Honey Bee Semen Saffet Sansar
10:30 - 10:45	New approaches in propolis extraction methods ibrahim Demirtaş
10:45 - 11:00	The taxonomy of honeybees and the significance for honey production in Nigeria Akeem Abolade Oyerinde
11:00 - 11:15	BREAK
USKUDAR HALL 3 11:15 - 13:15	SYMPOSIUM / BEE BIOLOGY SUBSPECIES CHARACTERIZATION AND CONSERVATION Moderator: M. S. Reddy & Raquel de Sousa
11:15 - 11:30	Modelling relationships in honeybee colonies and populations with SIMplyBee Jana Obšteter
11:30 - 11.45	The returning honey bees of "Apis nigrocincta" collect less diverse pollen compared to the sympatric "A. cerana" in Central Sulawesi <i>Rika Raffiudin</i>
11:45 - 12:00	Morphological Characterization of Selected Honey Bees (Apis mellifera L.) Originated from Western and Central Black Sea <i>Ahmet Kuvancı</i>
12:00 - 12:15	Predicting distribution modeling of Apis florea F. in the world <b>Shabnam Parichehreh</b>
12:15 - 12:30	Morphometric Characterization of Cypriot Honeybee Apis mellifera cypriaca and Its Venom Cytotoxic Effectiveness against Cancer Cells <i>Ekin Varol</i>
12:30 - 12:45	A mobile phone application to survey and monitor the wild colonies of Apis mellifera <b>Paolo Fontana</b>
12:45 - 13:00	Morphometric investigation of the Saharan honey bee (Apis mellifera sahariensis Baldensperger, 1932) in southeastern Morocco reveals signs of hybridization <b>Abdessamad Aglagane</b>
13:00 - 13:15	Discrimination of honey bee biodiversity by using wing area measurment <b>Meral Kekeçoğlu</b>
13:15 - 14:00	LUNCH BREAK
EMIRGAN HALL 09:00 - 10:30	SYMPOSIUM / POLLINATION AND BEE FLORA CHARACTERIZATION OF POLLINATION AND/OR BEE FLORA Moderator: Seunghwan Lee
09:00 - 09:15	Bees and bee plants in UPLB La Granja Research and Training Station, Philippines: an inventory toward conservation of pollinators in an agricultural landscape <i>Jessica B. Baroga Barbecho</i>
09:15 - 09.30	Impact of agroforestry on pollinator diversity  Sheryl A. Yap

09:30 - 09:45	SafeAgroBee project and Socioeconomic survey on beekeepers and farmers opinion on importance of pollination services <i>Fani Hatjina</i>
09:45 - 10:00	Determination of bee foraging plants in honey of Northern Oman Aliya Mohamed Sajwani
10:00 - 10:15	Seasonal Continuum of Honey Plants in the Central Region of Korean Peninsula <b>Seunghwan Lee</b>
10:15 - 10:30	The World of Pollinators - threats to an ecosystem service: Pressures on pollinators in Slovenia <b>Petra Bole</b>
10:30 - 11:15	BREAK
EMIRGAN	SYMPOSIUM / POLLINATION AND BEE FLORA
HALL	IMPROVING/ASSESSING POLLINATION PRACTICES
11:15 - 12:15	Moderators: Lucas Garibaldi
11:15 - 11:30	Ozone air pollution affects crop pollinators and pollination  Orianne Rollin
11:30 - 11:45	Enhancement of Bee Pollinators by Growing Border Crop to Increase the Yield of Mustard Crop  Mohammed Sakhawat Hossain
11:45 - 12:00	Effect of Apis mellifera (Hymenoptera: Apidae) on Acacia crassicarpa fruit production in seed orchards in Riau, Indonesia <i>Muhamad Pangky Sucahyono</i>
12:00 - 12:15	Combination of bee pollination of strawberry with fungicide application <b>Leonora Adamchuck</b>
12:15	LUNCH BREAK
USKUDAR	SYMPOSIUM / BEE HEALTH
HALL1&2	BEES UNDER STRESS
14:00 - 16:00	Moderators: Giovanni Formato & Fani Hatjina
14:00 - 14:15	Sublethal effects of imidacloprid on immune gene expression in the stingless bee Melipona quadrifasciata  Anete Pedro Lourenco
14:15 - 14:30	Determination of neonicotinoid and glyphosate residues in pollen samples from Croatia <b>Damir Pavliček</b>
14:30 - 14:45	Are detoxification enzymes induced similarly across honey bee castes in response to neonicotinoid exposure? <i>Ivanna V Kozii</i>
14:45 - 15:00	Study of the persistence of natural (formic and oxalic) and chemical (amitraz) acaricides in honeybees' body and in honey <i>Eleni Giannopoulou</i>
15:00-15:15	Effect of Lithium on Locomotor Activity, Circadian Rhythm and Social Behaviors of Honey Bees Babür Erdem

15:15 - 15:30	Bees under interactive stressors: the novel insecticides flupyradifurone and sulfoxaflor along with the fungicide azoxystrobin disrupt the gut microbiota of honey bees and increase  Yahya Al Naggar
15:30 - 15:45	Changes in the lithium level in bee products as a consequence of anti-Varroa treatment <b>Balázs Kolics</b>
15:45 - 16:00	Best practices and innovations for sustainable beekeeping in Europe: the B-THENET Thematic Network <i>Giovanni Formato</i>
16:00 - 16:15	BREAK
USKUDAR HALL 1 & 2 16:15 - 17:15	ROUND TABLE: MANAGING BEES WITHOUT CHEMICAL INPUTS Moderator: Fani Hatjina
16:15 - 17:15	MANAGING BEES WITHOUT CHEMICAL INPUTS  Panellists: Yahya Al Naggar & Paolo Fontana & Anna Locsin & Robert Chlebo & Tucka Saville
USKUDAR HALL 3 14:00 - 16:00	SYMPOSIUM / APITHERAPY BIO-PHARMACOLOGY OF BEE PRODUCTS-LABORATORY AND ANIMAL STUDIES - 1 Moderator: Banu Yücel & Badiaa Lyoussi
14:00 - 14:15	Propolis Isolated from Sulawesi Stingless bees have Promising Effects on Rat Endometriosis Model <i>Muhamad Sahlan</i>
14:15 - 14.30	Arbutus Unedo Honey and Propolis ameliorate acute kidney injury, acute liver injury, and proteinuria via hypoglycemic and antioxidant activity in streptozotocin-treated Rats <i>Soumaya Touzani</i>
14:30 - 14:45	Effect of antioxidant-rich propolis and bee pollen extracts against D-glucose induced type 2 diabetes in rats Badiaa Lyoussi
14:45 - 15:00	Investigation of drug interaction of propolis  Ali Sorucu
15:00 - 15:15	The beneficial effect of fresh Moroccan bee pollen against blood, liver, and renal toxicity induced by methotrexate in rat <b>Badiaa Lyoussi</b>
15:15 - 15:30	The effectiveness of propolis administration at the level of ring form, trophozoite, schizont and merozoite parasitemia in mice infected with Plasmodium Berghei James Selamat Hutagalung
15:30 - 15:45	The effect of propolis extracts for neurodegenerative disease and its molecular mechanism <b>Sung Kuk Kim</b>
15:45 - 16:00	Relationships between Bee Pollen Biochemical Properties and Chronic Immobilization
	Stress in Rats <i>Hüseyin Şahin</i>

USKUDAR HALL 3 16:15 - 17:45	SYMPOSIUM / APITHERAPY BIO-PHARMACOLOGY OF BEE PRODUCTS LABORATORY AND ANIMAL STUDIES - 2 Moderator: Badiaa Lyoussi
16:15 - 16:30	Anti-quorum Sensing, Anti-biofilm and Anti-swarming Activities of Anatolia Propolis Extracts <b>Sevgi Kolaylı</b>
16:30 - 16:45	Identification and Characterization of HIV-1-Reverse Transcriptase Inhibitors from Propolis Extracts  Oktay Yıldız
16:45 - 17:00	The Investigation of The Effects of Nourishment With Drone Bee Larvae (Apilarnil) on The Reproductive Performance and Body Composition of Blue Streak Hap Broodstocks <i>Pinar Şahin</i>
17:00 - 17:15	Morphometric Characterization of Bee Races Apis mellifera L. from Different Regions of Turkey and Their Venom Potential for Apitherapy According to Geographical Differences <i>Ekin Varol</i>
17:15 - 17:30	Glucose oxidase, a bee-derived enzyme, as an important factor determining the antibacterial activity of bee pollen and bee bread <i>Juraj Majtan</i>
17:30 - 17:45	Analysis of the Effects of Propolis on Male Infertility Based on Sperm Count Using Experimental Animals  *Maslichah Mafruchati*

### **EMIRGAN** HALL

14:00 - 17:00

### **ROUND TABLE / APIMONDIA REGIONAL COMMISSION FOR AFRICA**

Moderator: Harun Baiya

Welcome Remarks

Opening Address / New Members Welcome

Apimondia Africa Symposium

Tanzania Country Paper

Update on Apimondia / FAO initiatives in Africa a. Green Jobs for Rural Youths b. World Bee Day Celebrations c. Bee Species Survey Outcome

Regional Working Groups Work and Future

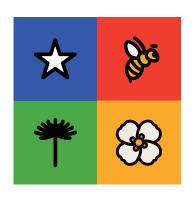
Save the Congo Basin through Beekeeping

Panel Discussion / Suggestions

Presentation

Closing Remarks

18:00 **CLOSING CEREMONY - HARBIYE AUDITORIUM** 



# APIMONDIA

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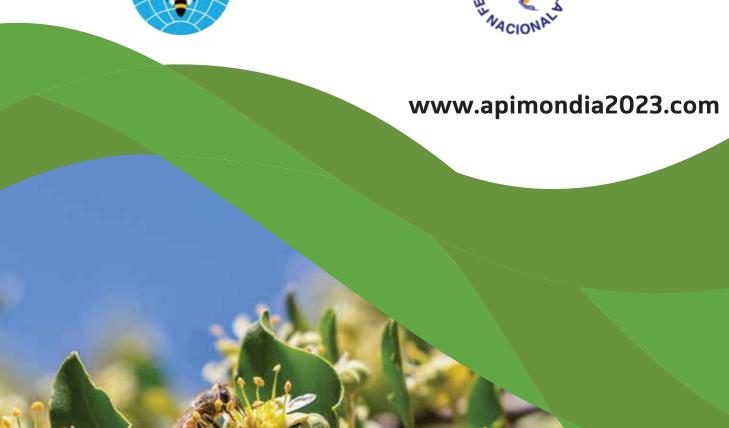
September 4th - 8th, 2023

Sustainable Beekeeping, from the south of the world

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**HOST ASSOCIATION** 





# POSTER PRESENTATIONS

### **APITHERAPY**

PP-001	The symbol of the bee in mythology, folk medicine  Daiva Šeškauskaitė
PP-002	Determination of physicochemical properties of naturally obtained bee venoms from anatolian honeybee ({Apis mellifera anatoliaca})  Aslı Elif Tanuğur Samancı
PP-003	Investigation of nutritional and antioxidant properties of Anatolian bee bread Aslı Elif Tanuğur Samancı
PP-004	Beekeeping Products - A Source Of Flavonoid Compounds <i>Elena Lapynina</i>
PP-005	Effect of propolis extract on genital warts  Shahram Dadgostar
PP-006	New method for treating Lyme disease with honey bee sting Shahram Dadgostar
PP-007	Relationship between the antibacterial capacity of Ulmo honey with the contribution of {Eucryphia cordifolia} pollen: the Active Patagonia Factor (APF) <i>Gloria Montenegro</i>
PP-008	Vibratory and airborne-sound signals of bee impact mood of human: What interests ? A pilot study Claude Nonotte Varly
PP-009	Characterization of water extract of propolis collected from different regions of Turkey by HPLC, and determination of antioxidant potential Orhan Değer
PP-010	Application hints for treating Lyme disease  Thomas Gloger
PP-011	Quantitation of the Myo-Inositol and D-Pinitol Levels as Promising Bioactive Constituents of Pine Honey and Elucidation of the Pathway by Analyzing Phloem of {Pinus Brutia} and the Secretion of Insect {Marchalina Hellenica} ismail Emir Akyıldız
PP-012	Air condensate composition of bee nest Leonora Adamchuk
PP-013	Production of minerals enriched honey  Abed Vahidi
PP-014	Investigation of potential properties of ethanolic propolis extracts for COVID-19 treatment <b>Oktay Yıldız</b>
PP-015	Development of health nutrition programs based on bee products for people during the post-COVID period Leonora Adamchuk
PP-016	Synthesis Process of Aram 97 Honeybee Strain, as the First Native Livestock Breed in Iran" <i>Gholamhosein Tahmasbi</i>

# APITHERAPY

PP-017	Anti-inflammatory effects of honey from the Philippine stingless bees ({Tetragonula biroi} Freise) on carrageenan-induced hind paw edema in ICR mice <i>Jussiaea Valente Bariuan</i>
PP-018	Use of a standardized poplar propolis powder in the treatment of chronic diarrhea in dogs and cats <i>Philippe Garcia</i>
PP-019	Use of bee venom in the treatment of locomotor pathologies in dogs <b>Philippe Garcia</b>
PP-020	Changes in antioxidant capacity and exin layer of pollen fermented with kombucha and green tea  Harun Kuloğlu
PP-021	Physicochemical characterization and in vitro evaluation of the antioxidant and anticandidal activities of Moroccan propolis Badiaa Lyoussi
PP-022	Mineral Composition of Turkish Chestnut Honey  Mukaddes Arigül Apan
PP-023	Apitherapy in Lithuania: past, present and future perspectives  **Neringa Sutkeviciene**
PP-024	Comparison of Antioxidant Activities of Some Pollen Varieties  Neslihan Çakıcı
PP-025	Gentle beekeeping and bee apitherapy a holistic health method that is the result of 40 years of research and has proven its effectiveness on human health <b>Catherine Flurin</b>
PP-026	Effect of Anatolian Propolis on COVID-19  Aslı Elif Tanuğur Samancı
PP-027	Role of bee venom and its subligual drops in autoimmune proteinuria  *Ahmed Mohamed El Sabbagh*
PP-028	Antioxidant potential of different honey varieties compared to BONUM HONEY Adam Maciejec
PP-029	Toxicological and antimicrobial evaluation of BONUM HONEY  Adam Maciejec
PP-030	Acute inflammation attenuated by topical administration of Philippines stingless bee propolis through reduction of the pro-inflammatory cytokines, Tumor Necrosis Factor-alpha(TNFa), Interleukin1 $\beta$ (IL-1 $\beta$ ), and Interleukin 6 (IL-6) <i>Maria Amelita Celino Estacio</i>
PP-031	AAnti-nociceptive activity of Philippine stingless bee ({Tetragonula biroi} Friese) honey: Alleviation of neurogenic and inflammatory somatic pain but not cutaneous and visceral pain <i>Jussiaea Valente Bariuan</i>



## APITHERAPY

PP-032	Influence of processing procedures on the antibacterial activity of bee pollen and propolis on some pathogenic bacterial strains <i>Ionut Moraru</i>
PP-033	Honey vinegar improves plasma antioxidant status and plasma lipids in mice Mosa Sharifi
PP-034	Propolis EPP-AF® loaded microcapsules – development, characterization and biological activities <b>Andresa A. Berretta</b>
PP-035	Bee pollen samples from Turkey and Slovenia: A comparative study on their phenolic profiles, antioxidant, and anti-inflammatory activities  Nisa Beril Sen
PP-036	Honey Bee Products and COVID-19  Negar Karimi
PP-037	Mineral infused honey's effect on nutrient deficiencies  Mackenzie Nielsen
PP-038	The Effect Of N-Chromosome Royal Jelly, Queen Wax, And Bee Venom On Eczema And Psoriasis <i>Hossein Yeganehrad</i>
PP-039	Covid-19 and Anatolian propolis: a case report Resat Kubilay Irkan
PP-040	Effect of propolis on wound healing in sacrococcygeal pilonidal disease: a randomized controlled clinical trial  Duygu Öztürk
PP-041	Apitherapy in Bosnia and Herzegovina  **Azra Licina Sinanovic**  Azra Licina Sinanovic**
	BEE BIOLOGY
PP-042	Gibberellic acid alters feed intake, morphology and vitellogenin (VG) gene expression in Africanized "Apis mellifera" bees

PP-042	Africanized "Apis mellifera" bees  Jean Samel Rocha
PP-043	Ace-miR-3759-y affects Apis cerana cerana larval target gene expression, size, and weight <b>Ping Ya Ye</b>
PP-044	The permeability of cell cappings to gases, volatiles, pathogens and acaricides Alena Bruce Krejci
PP-045	The population of dark forest honey bees, Apis mellifera mellifera, in the Burzyan region of South Urals  *Rustem Abuzarovich Ilyasov**
PP-046	Features of thermogenesis and thermal regime of the bee colony in the nucleus hive <b>Anatoly Kasyanov</b>

# **BEE BIOLOGY**

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# 7<sup>th</sup> INTERNATIONAL MUGLA BEEKEEPING & PINE HONEY CONGRESS NOVEMBER 15-19, 2022

Grand Yazıcı Club Turban Hotel, Marmaris - TÜRKİYE

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A10 BAYDERE ARICLILIK VE TEKSTİL A11 ŞİRİN BAL GIDA SAN. TİC. LTD. ŞTİ. A12 YILMAZ GIDA - CANPETEK HONEY A13/A14 BEE & YOU / BEE'O BEE PRODUCTS A15 ARGENTINA - CFİ A16 48 <sup>™</sup> INTERNATIONAL APICULTURAL CONGRESS - CHILE 2023 A17 INCÎ ARICLIK HAYVANCILIK NAKLIYAT SAN VE TİC. LTD. ŞTİ A18 7 <sup>™</sup> INTERNATIONAL MUGLA BEEKEEPING & PINE HONEY CONGRESS - 2022 A19 MANAVLAR - 7 BAHAR HONEY  A20/A22 BALPARMAK PLININ SPONSOR  A21 ALTIN PETEK BESİN ÜRETİM SAN. TİC. LTD. ŞTİ A23 KÖNIĞIN TRADE KFT A24 ARIKENT GİDA A25 HUNGARIAN BEEKEEPERS' ASSOCIATION A26 TURKISH ASSOCIATION OF BEEKEEPING A27 CIVAN BEEKEEPING SUPPLLES/ CİVAN ARICILIK TEKSTİL KALIP SAN. VE TİC. LTD. ŞTİ A28 MÜĞLA PETEK - İBRAHİM ARSLAN A29 GREIF A30 EGE NIKM GİDA SANAYÎ VE TİCARET A. Ş. A31 PARADISE HONEY LTD A32 BAŞOĞLU MÜTEAHHİTLİK GİDA SAN. VE TİC. LTD. ŞTİ A33 SLOVAK BEEKEEPERS' ASSOCIATION A34 TEKNOVET İLAÇ BAŞOĞLU MÜTEAHHİTLİK GİDA SAN. VE TİC. LTD. ŞTİ A36 BEEPHARMA A37 CLAC - FAİRIRADE A38 SİMECS GROUP A39 RANDOX FOOD DİAGNOSTICS A40/A41/A42 NLE RURAL DEVELOPMENT AGENCY (GEORGIA) ISTANBUL PETEK BEEKEEPING HAUSE  A44 VÉTÖ-PHARMA A45 BEEHOME A46 EKIN PERMIX PHARMACEUTICAL INDUSTRIAL LTD. CO. A47 HIVEALIVE A48/A49/ASO ÇALCALAR GİDA TUR. İNŞ. TİC. VE SAN. LTD. ŞTİ. SAKARYA BÜYÜKŞEHİR BELEDIYESİ - BELPAŞ BBUKER BİOSPIN A58 APIMON BEEKEEPING TURKEY / APIMON LLC USA A58/A59 APIMONDA STOCKE A66 ROYAL BEES ECODD A61 IRAN NATIONAL UNION OF BEEKEEPERS A66 ROYAL BEES ECODD A67 ARSONI ARICLIKIE KEIÇİMANLARI	A8	APIMAYE BEEKEEPING
A11 ŞIRİN BAL GIDA SAN TİC. LTD. ŞTİ. A12 YILMAZ GIDA - CANPETEK HONEY A13/A14 BEE & YOU / BEE'O BEE PRODUCTS A15 ARGENTINA - CFI A16 48" INTERNATIONAL APICULTURAL CONGRESS - CHILE 2023 A17 INCI ARICILIK HAYVANCILIK NAKLİYAT SAN VE TİC. LTD. ŞTİ A18 7" INTERNATIONAL HUGLA BEEKEEPING & PINE HONEY CONGRESS - 2022 A19 MANAVLAR - 7 BAHAR HONEY A20/A22 BALPARMAK PETEN BESİN ÜRETİM SAN. TİC. LTD. ŞTİ A23 KONIGİN TRADE KFT A24 ARIKENT GIDA A25 HUNGARIAN BEEKEEPERS' ASSOCIATION A26 TURKISH ASSOCIATION OF BEEKEEPING A27 CİVAN BEEKEEPING SUPPLIES'Ç IVAN ARICILIK TEKSTİL KALIP SAN. VE TİC. LTD. ŞTİ A28 MUĞLA PETEK - İBRAHİM ARSLAN A29 GREİF A30 EĞE NKM GIDA SANAYÎ VE TİCARET A. Ş. A31 PARADISE HONEY LTD A32 BAŞOĞLU MÜTEAHHİTLİK GIDA SAN. VE TİC. LTD. ŞTİ A33 SLOVAK BEEKEEPERS' ASSOCIATION A34 TEKNOVET İLAÇ A35 BEEFUTURES A36 BEEPHARMA A37 CLAC - FAIRTRADE A38 SİMECS GROUP A39 RANDOX FOOD DIAGNOSTICS A40/A41/A42 NLE RURAL DEVEL OPMENT AGENCY (GEORGIA) iSTANBUL PETEK BEEKEEPING HAUSE A46 EKIN PREMIX PHARMACEUTICAL INDUSTRIAL LTD. CO. A47 HIVEALIVE A48/A49/A50 ÇALCALLAR GIDA TUR. İNŞ. TİC. VE SAN. LTD. ŞTİ. SAKARYA BÜYÜKŞEHİR BELEDİYESİ - BELPAŞ A59 DARIAN KANDOO A61 IRAN NATIONAL UNION OF BEEKEEPERS A66 ROYAL BEESE EDOD ARONAL BEEKEEPING TURKEY / APIMON LLC USA A58/A59 APIMONIDIS SORIE A66 ROYAL BEESE EDOD ARONAL BEEKEEPING TURKEY / APIMON LLC USA A67 ARSONI MICHICK EKİPMANLARI	A9	BENKA BEEKEEPING
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STAND	EXHIBITOR
A72	ANEL
A72 A73	BEEKEEPING ACADEMY OF SLOVENIA
A74/A75	LIBYAN EXPORT PROMOTION CENTER
A79	BERGAMA PETEK
A80	ALVEIS BY CHEMICALS LAIF
A81	NANCHANG CONCENTRIC PURPLE NEST BIOLOGICAL CO.,ITD
A82	ANTIAN APICULTURE XINJIANG CO.,LTD
A86	BEESEN BIO CO., LTD.
A87	ZUKÁN APÍCOLA
A88	YEŞİLDAĞ PETEK
STAND	EXHIBITOR
B1	KATUN ARICILIK
B2	AZERBAIJAN PROFESSIONAL BEEKEEPERS ASSOCIATION
B3	APIRAY BEEKEEPING
B7	SANTAVET İLAÇ SAN. A.Ş.
B8	BEENECTAR
В9	VIMEKS BULGARIA
B10	SCANDINAVIAN BEEKEEPING
B11	SWIENTY A/S
B12/B13	HAFT GOHAR
B12/B13	AQBI BEE INSEMINATION KIT
B15	AGRIAMELLISSA-EFODIA GR
B16	BEEAMOND
B17	PHADEBAS AB
B18	MELISSOKOMIKI ISTHMOU
B19/B20	KOREA BEEKEEPING ASSOCIATION & KOREA APICULTURAL AGRICULTURE COOPERATIVE
B21	AGRO SIMPA D.O.O.
B22	DULCOFRUCT BEE NUTRITION SCIENCE
B23	BOLVİT
B24/B25	MAVİ KOVAN BEE HIVE COMPANY
B26	DALAN ANIMAL HEALTH
B27	OZ ARMOUR
B28	HANGZHOU KANGLI HEALTH PRODUCTS CO LTD
B29	MULTI AGRO
B30	AL ASEAL HONEY EGYPT
B31/B33/34	ENGİN ARICILIK
B32	AR-SUM APIMAK
B35	PRAIRIE IMPORTS LLC
B36	BEST FOR BEES
B37	SEOUL PROPOLIS CO., LTD
B38	RIVER WOOD INC
B39	J. SCOUT SPORTS (BEEPROGEAR.COM)
B40	WANGSHI ANIMAL HEALTH
B41	INTERTEK  PAYUK HIKDAINIE
B42	PAVIK UKRAINE
B43	OLD FARM HONEY
B44	CHUNG JIN BIOTECH CO LTD
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STAND E	XHIBITOR			
C1	DAKAHLIA HAGRAS BEEKEEPING - DHB			
C2	JIANGSHAN BEE ENTERPRISE			
C3	SADECKI BARTNIK POLAND			
C4	CALIER			
C5	LAS HURDES - DIP. DE CACERES - EUROMIEL			
C6	İVA ARICILIK			
C7	AKDENİZ ARICILIK			
C8	BEEFLOWER			
C9/C10/C15/C16				
C11	SC MATERIALE APICOLE SRL ROMANIA			
C12	OLD CASTLE FARM HIVES			
C13/C14	QUALITY SERVICES INTERNATIONAL GMBH			
C17	EUROFINS			
C18 C19	ADIDADE ADICULE A S			
C20	APİPARK ARICILIK A.Ş URUGUAY			
C20	NOD GLOBAL			
C22	HONEY OF MOLDOVA			
C22	SOC.AGR.TENUTA RİTİRO SRL			
C24	ALVARIUM LTD			
C25	THE DIAMOND BEES®			
C26	BEE STAR (CHENGDU MAYALAND TRADING CO.,LTD)			
C27	UMAY BEEKEEPING CO.			
C28	CANDIPOLLINE ENOLAPI			
C29	FOODQS GMBH			
C30	NUR-EL BEEKEEPING EQUIPMENTS			
C31	PRIMAVET-SOFIA LTD			
C32	ARITÜRK - NOSEMİT - VAROMİT			
C33	AFRANG FAM			
C34/C35	ARMASAD			
C36	DOCTOR BEE			
C37/C38	UNION OF BEEKEEPERS OF UKRAINE			
C39	ULE WYROBEK- POLAND			
C40/C41	VITA BEE HEALTH			
C42/C43	URMAN HONEY EXPORT GROUP COMPANY			
C44	MINISTRY OF AGRICULTURE - MOZAMBIQUE			
C45	ORGANO SEVEN/INTERPROFESSION MIEL			
C46/C47	TANZANIA FOREST SERVICES AGENCY			
C48/C49	MINISTRY OF AGRICULTURE, FISHERIES & FORESTRY - ANGOLA			
C50/C51	RWANDA AGRICULTURE BOARD - FAO BEEKEEPING PROJECT			
C52	NORTH WEST PROVINCE			
C53	SABIO			
C54	CAN-VET VETERİNERLİK HİZ.			
C55	SJA HONEY			
C56	ORDU ARICILAR BİRLİĞİ			



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