

AUGUST 27th, 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 Nature based commercial beekeeping in Europe
Sébastien Bonjour & Anne Damon
- 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.
Marta Soneira
- 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: *Prof. Dr. M. S. Reddy & Raquel de Sousa*

- 09:00 - 09:15 Metabolite support of long-term storage of sperm in the spermatheca of honeybee queens
Zhenguo Liu
- 09:15 - 09:30 Instrumental insemination of bee queens in the Volga region. Creating a laboratory
Dmitry Lvovich Maslov
- 09:30 - 09:45 Advances in cryopreservation of honeybee embryos: Optimisation of the first steps
Florence Guignot
- 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
İbrahim 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**

**SYMPOSIUM / BEE BIOLOGY
SUBSPECIES CHARACTERIZATION AND CONSERVATION**

11:15 - 13:15

Moderator: Prof. Dr. M. S. Reddy & Raquel de Sousa

- 11:15 - 11:30 Modelling relationships in honeybee colonies and populations with SIMplyBee
Jana Obsteter
- 11:30 - 11:45 The returning honey bees of "*Apis nigrocincta*" collect less diverse pollen compared to the sympatric "*A. cerana*" in Central Sulawesi
Rika Raffudin
- 11:45 - 12:00 Morphological Characterization of Selected Honey Bees (*Apis mellifera* L.) Originated from Western and Central Black Sea
Ahmet Kuvanci
- 12:00 - 12:15 Predicting distribution modeling of *Apis florea* F. in the world
Shabnam Parichehreh
- 12:15 - 12:30 Morphometric Characterization of Cypriot Honeybee *Apis mellifera* *cyprica* and Its Venom Cytotoxic Effectiveness against Cancer Cells
Ekin Varol
- 12:30 - 12:45 A mobile phone application to survey and monitor the wild colonies of *Apis mellifera*
Paolo Fontana
- 12:45 - 13:00 Morphometric investigation of the Saharan honey bee (*Apis mellifera* *sahariensis* Baldensperger, 1932) in southeastern Morocco reveals signs of hybridization
Abdessamad Aglagane
- 13:00 - 13:15 Discrimination of honey bee biodiversity by using wing area measurement
Meral Kekeçoğlu

13:15 - 14:00 LUNCH BREAK

**EMIRGAN
HALL**

**SYMPOSIUM / POLLINATION AND BEE FLORA
CHARACTERIZATION OF POLLINATION AND/OR BEE FLORA**

09:00 - 10:30

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
Jessica B. Baroga Barbecho
- 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
Fani Hatjina
- 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
Seunghwan Lee
- 10:15 - 10:30 The World of Pollinators - threats to an ecosystem service: Pressures on pollinators in Slovenia
Petra Bole
- 10:30 - 11:15 BREAK**

**EMIRGAN
HALL
11:15 - 12:15**

**SYMPOSIUM / POLLINATION AND BEE FLORA
IMPROVING/ASSESSING POLLINATION PRACTICES
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
Muhamad Pangky Sucahyono
- 12:00 - 12:15 Combination of bee pollination of strawberry with fungicide application
Leonora Adamchuck
- 12:15 LUNCH BREAK**

**USKUDAR
HALL 1 & 2
14:00 - 16:00**

**SYMPOSIUM / BEE HEALTH
BEES UNDER STRESS
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
Damir Pavliček
- 14:30 - 14:45 Are detoxification enzymes induced similarly across honey bee castes in response to neonicotinoid exposure?
Ivana V Kozii
- 14:45 - 15:00 Study of the persistence of natural (formic and oxalic) and chemical (amitraz) acaricides in honeybees' body and in honey
Eleni Giannopoulou
- 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
Balázs Kolics
- 15:45 - 16:00 Best practices and innovations for sustainable beekeeping in Europe: the B-THENET Thematic Network
Giovanni Formato
- 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 I**

Moderator: Prof. Dr. Banu Yücel & Prof. Dr. Badiaa Lyoussi

- 14:00 - 14:15 Propolis Isolated from Sulawesi Stingless bees have Promising Effects on Rat Endometriosis Model
Muhamad Sahlan
- 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
Soumaya Touzani
- 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
Badiaa Lyoussi
- 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
Sung Kuk Kim
- 15:45 - 16:00 Relationships between Bee Pollen Biochemical Properties and Chronic Immobilization Stress in Rats
Hüseyin Şahin
- 16:00 - 16:15 BREAK**



USKUDAR

HALL 3

16:15 - 17:45

SYMPOSIUM / APITHERAPY BIO-PHARMACOLOGY OF BEE PRODUCTS LABORATORY AND ANIMAL STUDIES II

Moderator: *Prof. Dr. Badiaa Lyoussi*

16:15 - 16:30

Anti-quorum Sensing, Anti-biofilm and Anti-swarming Activities of Anatolia Propolis Extracts

Sevgi Kolaylı

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

Pınar Şahin

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

Ekin Varol

17:15 - 17:30

Glucose oxidase, a bee-derived enzyme, as an important factor determining the antibacterial activity of bee pollen and bee bread

Juraj Majtan

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

