



Türkiye
İstanbul
2017



45th APIMONDIA INTERNATIONAL APICULTURAL CONGRESS

Septembe 29 - October 4, 2017 / Istanbul - TURKEY

PROGRAM BOOK





Healthy Bees, LLC.

Delivering strong hives through balanced nutrition.

BeesVita Plus is an all-natural, next generation nutritional system for honey bees. **BeesVita Plus** is an organic formulation that strengthens the honey bees' natural defenses, consequently increasing productivity.

Worldwide patent pending technology developed in Italy.
Current field trials in:

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Learn more about us at booth A79 or at
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Dear Colleagues,

On behalf of the Turkish Beekeeping Association, it is our sincere pleasure to welcome you all in the 45th Apimondia International Apicultural Congress in Istanbul, between 29 September - 4 October 2017.

Istanbul; the world's one of the most ancient metropolis with its rich history and wonderful nature. With its 8.500 years of history, Istanbul is the former capital of Roman, Byzantine and Ottoman Empires. Separated to two continents, Asian and European, the city is an ideal example of the natural beauty.

Located in the heart of the city, equipped with high-tech equipment and conference facilities, Istanbul Congress Center (ICC) offers a unique location set against the breathtaking beauty of Bosphorus. Its location offers a large commercial banks, and shopping areas are within an easy walking distance or short taxi ride.

Beside the beauties of Istanbul, the Congress will offer a good opportunity to exchange experiences in various aspects and to discuss latest developments in the beekeeping world. The organizing committee of this project is a very big team who has a dedicated preparation work since 2009. We are using the latest interactive technologies in the sessions which gives more opportunity to share your experience and increase your knowledge and competencies.

We believe that we've created a strong scientific program with necessary breadth and depth. we hope that you will always remember the Congress with good memories and will return home after the congress with renewed enthusiasm for your profession.

With warm hospitality and more than enough facilities, we believe that 45th Apimondia International Congress will be great success and unforgettable experience.

Once again, we welcome you all in Istanbul for the 45th Apimondia International Apicultural Congress under the theme of "Lets bee where the continents meet"

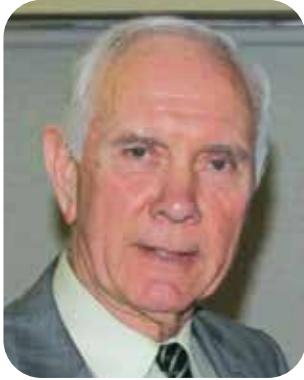
On Behalf of the Organizing Committee,

Ziya SAHİN

President

Turkish Beekeepers Association

A handwritten signature in black ink, consisting of a stylized 'Z' followed by a series of loops and a final flourish.



Dear All,

It is with great pleasure that I welcome delegates to the 45th Apimondia Congress in Istanbul. On behalf of Apimondia I want to offer my sincere congratulations to all involved in planning and organizing this wonderful event, where 'East meets West'.

For the past number of years the honeybee across the world has been in decline so this Congress and accompanying plenary sessions, presentations and roundtables are to be welcomed, so that we can all be updated on the current position on how to address

the many issues facing the honeybee and indeed the beekeeper. The Congress programme, already approved by the scientific commissioners and the local scientific committee, provides an insight on the many developments in research and analysis currently being undertaken in universities, institutes and research stations across the World.

The decline in honeybees comes under several headings but in recent years studies have linked neonicotinoid pesticide exposure to the severe bee health decline we are now experiencing. These studies add to a growing body of scientific literature and strengthen the case for removing pesticides toxic to bees from the market. Neonicotinoids are highly toxic to a range of insects, including honey bees and other pollinators.

The value of bee pollination in human nutrition and food is immense and difficult to quantify. It is commonly said that about one third of human nutrition is due to bee pollination, this includes the majority of fruits and many vegetables. The economic value of insect pollination is estimated to around \$153 billion per annum.

As well as the loss of the honeybee, adulterated honey is of major concern also and this will be discussed in detail as the proposed of roundtables and it is hoped that these will address some of the many issues facing us all.

So it could be stated that the objective of this Congress is to gather, exchange and disseminate new information on bee sciences and technology around the world and I wish it success and send my kindest regards to all beekeepers and scientists in their endeavors.

Please enjoy your stay in this wonderful city of Istanbul and the hospitality of the Turkish people and that you will leave with great memories of our 45th Apimondia Congress.

Philip McCabe

President

Apimondia – International Federation of Beekeepers' Associations



SUPPORTED BY

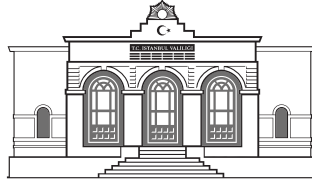


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SPECIAL THANKS TO

Yunus Kilickaya
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GENERAL INFORMATION

WEATHER

Istanbul has a climate combining Mediterranean and Black Sea climate, with a hot dry summer and pleasantly warm spring and fall. Winters are cold but snow is rare. The vegetation is predominantly of the Mediterranean type. Average temperature is 19 – 22 degrees Celcius in the period of our Congress.

ELECTRICITY

The electric current is 220V AC with a frequency of 50 Hertz. European standard plugs with two round pins are used. Most hotels have a receptacle with 110 volts.

CURRENCY, BANKS, EXCHANGE

In Turkey, the currency is the Turkish Lira (TL). Foreign currency can be exchanged at the airport, at banks which are open from 08:30 to 12:00 and from 13:00 to 17:00 at private exchange offices which can be found throughout the city and open from 09:00 to 20:00 hrs.

The exchange rate is set on a daily basis but generally private exchange offices give better exchange rates for cash than banks. Some of the exchange rates as of 31 August 2017 are as follows;

1 EUR = 4,15.-TL / 1 USD = 3,45.-TL / 1 GBP = 4,50.-TL

TIME

Turkey is two hours ahead of GMT.

COMMUNICATION

All hotels have direct dial telephone systems in the rooms. Turkey has 3 GSM operators (Turkcell, Vodafone, Turk Telecom). Please consult your local GSM operator to find out if they have roaming agreement with Turkish Operators. Post offices are open for general business from 09:00 to 17:00, Monday to Saturday.

PUBLIC TRANSPORTATION

Istanbul offers an extensive mass transportation network including metro, ferries, marmaray, light-rail, buses that go between two continents, under and over the sea. Five-in-one bus tickets and smart ticket devices used in almost all transportation vehicles and can be purchased from ticket booths all around the city.

REGISTRATION

Registration Desks will be in service as below;

28 September	10:00 – 20:00
29 - 30 September, October 1-2-3	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 activities.

EXHIBITION

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

29 September 2017	12:00 – 19:00
30 September, October 1-2-3	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 14.00 on the day before the departure date.

For the Official Technical Tour reservations will be accepted until 13.00 on September 3rd. Participants registered in advance for the technical tour has to receive their vouchers from the Tour Desk until 15.00 on September 3rd.

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, German and Turkish will be available in the Opening & Closing Ceremonies of the Congress.

Simultaneous translation in English, Spanish, French, German and Turkish will be available in the Uskudar Hall which is the main scientific session room where all the Plenary Sessions will be organized.

CERTIFICATE

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

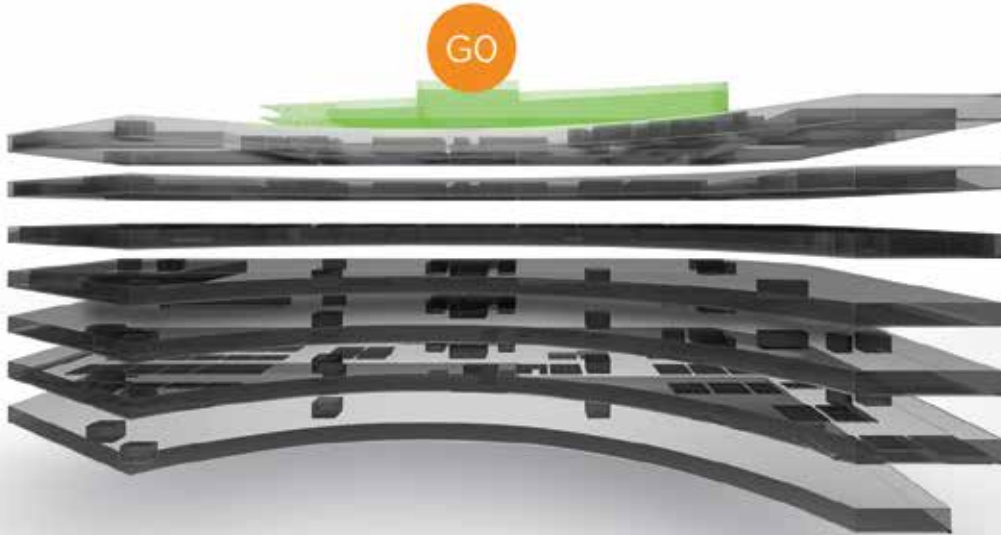
ORAL PRESENTATION GUIDELINE

- The time allocated for each presentation is 20 minutes including Q&A (Presentation: 15 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 2010/2013 version, Adobe Acrobat and Windows Media Player.
- 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 5 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 chairs of session and inform about they participate the session (they are at the hall) at least 5 min ago

OVERVIEW

28 Sept 2017 Thursday	29 Sept 2017 Friday	30 Sept 2017 Saturday	01 Oct 2017 Sunday	02 Oct 2017 Monday	03 Oct 2017 Tuesday	04 Oct 2017 Wednesday
	Exhibition Opening	Exhibition				
	Opening Ceremony				Closing Ceremony	
		Scientific Program				
	Registration					
		General Assembly			General Assembly	
Pre Tours	Optional Daily Tours					Technical Tours

CONGRESS VENUE OVERVIEW



G0 Floor	REGISTRATION AREA
B1 Floor	SPECIAL EVENTS AREA
B2 Floor	HARBIYE AUDITORIUM
B2 Floor	CONGRESS SESSION ROOMS
B2 Floor	POSTER AREA
B2 Floor	SPEAKER ROOM
B2 Floor	PRESS ROOM
B3 Floor	PRAYER ROOM
B4 Floor	ROUND TABLE HALL
B4 Floor	MAIN RESTAURANT & LOUNGE
B5 Floor	WBA – WORLD BEEKEEPING AWARDS
B5 Floor	EXHIBITION AREA
B6 Floor	CAR PARK
B7 Floor	CAR PARK

PROGRAM AT A GLANCE

■ SEPTEMBER 29th, 2017

Exhibition Opening	: 12:00	B5 FLOOR
Exhibition	: 12:00 – 18:30	B5 FLOOR
Opening Ceremony	: 18:00 – 19:30	B2 FLOOR / Harbiye Auditorium

■ SEPTEMBER 30th, 2017

Congress Scientific Sessions	: 09:00 – 18:30	B2 FLOOR / 4 Parallel Halls
Apimondia General Assembly	: 14:00 – 18:00	B2 FLOOR / Camlica Hall
Exhibition	: 12:00 – 19:00	B5 FLOOR
Round Tables	: 10:00 – 18:00	B4 FLOOR / Kadikoy Hall
Satellite Symposium (Healthy Bees)	: 13:00 – 14:00	B2 FLOOR / Uskudar Hall

■ OCTOBER 1st, 2017

Congress Scientific Sessions	: 09:00 – 18:30	B2 FLOOR / 4 Parallel Halls
Exhibition	: 09:00 – 19:00	B5 FLOOR
Round Tables	: 10:00 – 18:00	B4 FLOOR / Kadikoy Hall

■ OCTOBER 2nd, 2017

Congress Scientific Sessions	: 09:00 – 18:30	B2 FLOOR / 3 Parallel Halls
OIE Session	: 09:00 – 18:30	B2 FLOOR / Beyazit Hall
Exhibition	: 09:00 – 19:00	B5 FLOOR
Round Tables	: 10:00 – 18:00	B4 FLOOR / Kadikoy Hall

■ OCTOBER 3rd, 2017

Congress Scientific Sessions	: 09:00 – 15:30	B2 FLOOR / 4 Parallel Halls
Exhibition	: 09:00 – 19:00	B5 FLOOR
Round Tables	: 10:00 – 12:00	B4 FLOOR / Kadikoy Hall
Panel “World Beekeeping”	: 10:40 – 11:30	B2 FLOOR / Uskudar Hall
WBA Awards Ceremony	: 12:00	B5 FLOOR
Apimondia General Assembly	: 16:00	B2 FLOOR / Camlica Hall
Closing Ceremony	: 17:30	B2 FLOOR / Harbiye Auditorium

■ OCTOBER 4th, 2017

Technical Tours	: 08:30 – 18:30
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ERGO SERIES (22851)

The Ergo Series Thermo Beehive with its universal fully interchangeable design offers a complete mix and match solution for various beekeeping practices and standards. Robust structure with rich components is fully compatible with wooden beehives. It carries the traditional beekeeping in to a next stage.



2 STORY SET INCLUDES ALL THIS

- Hive Top Cover
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- 1 Queen excluder
- 1 Division board
- Sliding Entrance Reducer
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WINTERING WITHOUT LOSSES...

A major challenge to the beekeeper is helping the bees survive winter weather. Starvation, cold, dampness, mites and nosema all make winter survival within the hive difficult. Colonies in Thermo Hives eat less food during the winter and are better able to move their clusters to new areas of honey within the hive. With the insulated Thermo Hive bodies and top cover the bees cluster loosely or not at all and do not fall victim to "cold starvation" when they move to reach it because of lack of food.

ERGOSERIES Thermo Beehives parts are designed to be suitable for use with wooden supers. The great mix and match solution allows beekeeper to overwinter colonies in the insulated bodies and use the present wooden supers when needed.



SCIENTIFIC PROGRAM

SEPTEMBER 30th

USKUDAR HALL

Symposium 1 / Beekeeping Technology and Quality

Chairs: *Dany Georges El-Obeid, Muhsin Doğaroğlu*

- 09:00 – 09:20 A Summary to Technological Progressing of Beekeeping in a World Living Smart Production Systems Revolution Through Industrial 4.0
Alaeddin Yörük
- 09:20 – 09:40 Properties, Production Technology and Efficient Use of Beeswax Foundation with the Addition of Propolis (Bee Glue)
Valerii Dombrovdkyi
- 09:40 – 10:00 Effect of Aqueous Ethanol Extracts of Propolis on Phenolic Profiles, Antioxidant Properties and Anti-alpha Glucosidase
Hongcheng Zhang
- 10:00 – 10:20 The Current and Prospective Applications of GIS in Beekeeping
Awad M. A. Hassan

BEYAZIT HALL

Symposium 2 / Bee Health

Chairs: *Marie-Pierre Chauzat, Aslı Özkırım*

- 09:00 – 09:20 Identifying Risk Factors of Productive Season Colony Loss in Ontario, Canada - A Multifactorial Epidemiologic Approach
Alessia Guthrie
- 09:20 – 09:40 Keeping the Buzz Moving on: FAO's Support to Sustainable Apiculture Production and Health
Eran Akiva Raizman
- 09:40 – 10:00 Four Year Cooperation between Austria and Czech Republic on Investigating Colony Losses
Jiří Daníhlík
- 10:00 – 10:20 Comparative Analysis of Winter Losses of Honey Bee Colonies in Turkey 2016-2017 Period with COLOSS Monitoring Data
Aslı Özkırım

EMIRGAN HALL

Symposium 3 / Bee Biology

Chairs: *Karl Crailsheim, Nuray Şahinler*

- 09:00 – 09:20 Effects of Glucose, Fructose and High Fructose Corn Syrup on the Development, Memory and Learning Behavior of Honey Bees
Cahit Öztürk
- 09:20 – 09:40 A Breeding Study Against Varroa in Mugla Honey Bee (*Apis mellifera anatoliaca*) Population
Rahşan İvgin Tunca
- 09:40 – 10:00 Evaluation of Ventilation Activity of Africanized Bees (*Apis mellifera* L.) in Hives Under Sun and Shadow Conditions in the Brazilian Northeastern Semiarid
Lionel S. Goncalves
- 10:00 – 10:20 Identification of Suitable Reference Genes for miRNA Quantitation in Bumblebee Response to Reproduction
Jiaxing Huang

BEYLERBEYI HALL

Symposium 4 / Apitherapy

Chairs: *Elizabeth Ortiz Vazquez, Timuçin Atayoğlu*

- 09:00 – 09:20 Beehive Products in Modern Medicine
Lyoussi Badiia
- 09:20 – 09:40 Antioxidant Activity and Protective Effect of Bee Bread (Mixture of Honey and Pollen) in Aluminum-induced Anemia, Elevation of Inflammatory Markers and Hepato-renal Toxicity
Lyoussi Badiia
- 09:40 – 10:00 An Evaluation on Citrus Bee Bread
Sibel Silici
- 10:00 – 10:20 Effects of Bee Pollen on Methotrexate-Induced Testicular Damage in Rats
Özlem Saral

10:20 – 10:40

BREAK

USKUDAR HALL

KEYNOTE SPEECH

- 10:40 – 11:30 Future of Beekeeping
Osman Kaftanoğlu

USKUDAR HALL

Plenary Session / Beekeeping Technology and Quality

Chairs: *Dany Georges El-Öbeid, Muhsin Doğaroğlu*

- 11:40 – 12:20 **Plenary Talk**
New Approach: Chemical and Fluorescence Profiling of NZ Honeyes
Jonathan Stephens
- 12:20 – 12:40 Authenticity Testing of Honey by Targeted and Non-targeted Analytical Methods
Gerhard G. Rimkus
- 12:40 – 13:00 Prospective Contribution for Ecuadorian Scaptotrigona Pot-honey Norm
Patricia Vit

BEYAZIT HALL

Symposium 5 / Bee Health

Chairs: *Franco Mutinelli, Nazmiye Güneş*

- 11:40 – 12:00 A method for detection of Nosema sp. spores in Beeswax
Mustafa Necati Muz
- 12:00 – 12:20 Landscapes, Forage Sustainability and Pesticides: All Affect Honeybee Health and Survival
Mohamed Alburaki
- 12:20 – 12:40 Control of Honeybee Intracellular Gut Parasites, Nosemosis
Hye Kyung Kim
- 12:40 – 13:00 Outbreak of Honey Bee Losses and Reasons in Early Spring 2017 in Çukurova Region, Turkey
Hasan Hüseyin Oruç

EMIRGAN HALL

Symposium 6 / Bee Biology

Chairs: *Lionel Goncalves, Osman Kaftanoğlu*

- 11:40 – 12:00 Characteristic Analysis of the Queen Retinue Workers
Yao Yi
- 12:00 – 12:20 Investigation of Gut Microbial Communities Associated with Indigenous Honey Bee (*Apis mellifera jemenitica*) from Two Different Eco-regions of Saudi Arabia
Mohammad Javed Ansari
- 12:20 – 12:40 A Brazilian Social Bee Must Cultivate Fungus to Survive
Cristiano Menezes
- 12:40 – 13:00 The Effect of Pollen and Honey Substitution Feeding on Consumption, Weight and Lifespan in Workers Honey Bees *Apis mellifera* L.
Devrim Oskay

BEYLERBEYI HALL

Symposium 7 / Apitherapy

Chairs: **Mohammad Javed Ansari, Sevgi Kolaylı**

- 11:40 – 12:00 The Protective Effects of Propolis and Flunixin Meglumine on Antioxidant Status of Liver and Kidney Tissues, and Serum TNF- α Levels in Rats induced by Copper
İsmail Seven
- 12:00 – 12:20 Water Extracts of Turkish Propolis Induces Human Laryngeal Epidermoid Carcinoma Cells Arrest in S Phase
Orhan Değer
- 12:20 – 12:40 Creating a Synergie Effect by Mixing the Propolis of Different Countries
Seungwan Lee
- 12:40 – 13:00 Water Soluble Propolis with Higher Bio Availability
Thomas Gloger

13:00 – 14:10

LUNCH BREAK

USKUDAR HALL

Plenary Session / Beekeeping Economy

Chairs: **Woo Kunsuk, Muhsin Doğaroğlu**

- 14:10 – 14:30 China's Apiculture Situation and Development Strategy
Jie Wu
- 14:30 – 14:50 Possible Risk and Hazard Factors for Beekeeper Health
Mirela Valentina Strant
- 14:50 – 15:10 Improving the Economics of Beekeeping and Farming by Promoting Bee Friendly Farming Methods
Walter Haefeker
- 15:10 – 15:30 Technical and Economic Analysis of the Beekeeping Enterprises; Aegean Region Sample
Mustafa Bahadır Çevrimli
- 15:30 – 16:10 **Plenary Talk**
The Basic Problems of Beekeepers in Turkey and the Future of Beekeeping
Hüseyin Ceylan
- An Evaluation on Different Beekeeping Investment Models from Young Beekeeper Point of View
Nihal Güven Altinkurt

BEYAZIT HALL

Symposium 8 /Beekeeping Technology and Quality

Chairs: **Alaeddin Yörük, Mete Karacaoğlu**

- 14:10 – 14:30 Sensory Uniqueness of Tanzanian Honeys
Lise Hansted
- 14:30 – 14:50 High-tech Solutions for a Precision Beekeeping
Khaled Bouchoucha
- 14:50 – 15:10 Developing a Solar Powered Electronic Hive Scale to Compare Flow™ and Langstroth Hive Performance
Andrew Wootton
- 15:10 – 15:30 Spring Application of JATIE CAP® and Vitamin Complexes on the Development of Hives in Argentina
Luciano Morales Pontet
- 15:30 – 15:50 Honeybee Breeding Selections for Apis mellifera syriaca's Hybrid Vigor
Rami Salman Ollaik
- 15:50 – 16:10 Adulteration of Honeys, Analysis and Solutions
Etienne Bruneau

EMIRGAN HALL

Symposium 9 / Apitherapy

Chairs: **Thomas Gloger, Sibel Silici**

- 14:10 – 14:30 Synergistic Antibacterial Interaction between Yemini Sidr and Manuka Honey against Some Human Pathogens
Mohammad Javed Ansari
- 14:30 – 14:50 Impact of Acacia Honey on Biofilm Inhibition in Bacteria with the Help of Atomic Force Microscopy
Syed Ishtiaq Anjum
- 14:50 – 15:10 Immune Potential Activity of Honey
Faiz Al Guthami
- 15:10 – 15:30 Antimicrobial Potential of Melipona beecheii Honey on Bacteria Related to Foodborne Diseases and The Effect on their Virulence Genes
Elizabeth Ortiz Vazquez
- 15:30 – 15:50 Antimicrobial Activity of Honey Samples from the Republic of Macedonia
Irena Dzimrevska
- 15:50 – 16:10 Medicinal Activities of Chestnut Honey and Pure Chestnut Pollen
Selçuk Küçükaydın

BEYLERBEYI HALL

Symposium 10 / Beekeeping for Rural Development

Chairs: **Nicola Bradbear, Ayça Özkan Koca**

- 14:10 – 14:30 The Status of Beekeeping in Northern Cyprus and Development from Past to Present
Erkay Özgör
- 14:30 – 14:50 Apitourism in Nepal
Khem Raj Neupane
- 14:50 – 15:10 Bee Reserve: A Type of Protected Area for Bee Resources, Honey Production and Involvement of Communities
Stephen Eliakunda Msemo
- 15:10 – 15:30 The Five Pillars of Successful Beekeeping: Beekeeping for Sustainable Development
David John Lloyd
- 15:30 – 15:50 Africa: Beekeeping as a Potential Tool for Sustainable Health & Economic Development
Hugo Fearnley
- 15:50 – 16:10 Modification or Innovation of Top Bar and Frames as an Efficient Propolis Collecting Mechanism for Top Bar and Langstroth Hives
Abraham Addo Ansah Allotey

16:10 – 16:30

BREAK

USKUDAR HALL

Symposium 11 / Beekeeping Economy

Chairs: **Walter Haefeker, Gamze Saner**

- 16:30 – 16:50 Redlac: Platform for the Sustainable Development of Beekeeping in Latin America and Caribbean
Enrique Luciano Bedascarrasbure
- 16:50 – 17:10 “My Bee, My Honey, My Honeycomb” Project
Şeref Cınbırtoğlu

17:10 – 17:30	Apiculture and Agriculture Relationship: The need to Explain Benefits and Harmful Effects Astrid Ballesta
17:30 – 17:50	Determinants of Technical Efficiency in Beekeeping Farms in Nigde Province, Turkey: An Analysis of Efficiency Using data Envelopment Analysis Betül Güler
17:50 – 18:10	Kenyan Honey Production in the Context of Global Beekeeping Grace Adala Asiko
18:10 – 18:30	A Model Suggestion for Establishment of Honey Exchange Market Bilal Bagis
BEYAZIT HALL	Symposium 12 /Beekeeping Technology and Quality Chairs: Alaeddin Yörük, Nevzat Artık
16:30 – 16:50	Planet Earth Honey Fingerprint Database Of Nmr Profiles By World Beekeeping Community Federico Berron
16:50 – 17:10	Reliable Registered Method for Determination of Pure and Adulterated Honey Produced by Feeding Bee Colonies with Industrial Sugars Ahmet Güler
17:10 – 17:30	Spectrum-Effect Relationships Between Hplc Fingerprints and Dpph Scavenging Activity of Brazilian Green Propolis Jiawei Chen
17:30 – 17:50	Development of Program for Management of Honey Bee Disease Sedat Sevin
17:50 – 18:10	GC-MS Analysis of Propolis Samples Collected from Different Regions of Turkey Fazıl Güney
18:10 – 18:30	Venoms Of Lebanon Bee "Apis mellifera syriaca" Massive Collection and Extraction, Optimization of The Isolation Process, Characterization and Exploration of Functional Properties Dany Georges El-Obeid
EMIRGAN HALL	Symposium 13 / Apitherapy Chairs: Cristina Aosan, Aslı Özkök
16:30 – 16:50	The Efficacy of Apilarnil Administration on Sex Characteristics of Male Broilers Banu Yücel
16:50 – 17:10	Stress Reaction of Organism to the Action of Bee Venom Anna Deryugina
17:10 – 17:30	Apitoxines in the Treatment of Multiple Sclerosis Igor Vladimirovich Krivopalov Moskvin
17:30 – 17:50	The Usage of Bee Hive - and Bee hive Air-Therapy for Treatment of Asthmatic Reactions of Beekeeper's Children Having Bee Venom Allergy Janosh Körmendy Racz
17:50 – 18:10	Antioxidant and Tyrosinase Enzyme Activities of Heather Honey in Different Region of Southwestern Anatolia Çiğdem Kuş
18:10 – 18:30	Apiculture Intervention for Malaria-Mitigation in Nigeria (Project AIM) David Bonat Musa

BEYLERBEYI HALL

Symposium 14 / Beekeeping for Rural Development

Chairs: *Irfan Kandemir, Mustafa Avcı*

- | | |
|---------------|---|
| 16:30 – 16:50 | The Role of Honey Hunting in Supporting Subsistence Livelihoods and in Sumbawa, Indonesia
David John Lloyd |
| 16:50 – 17:10 | Current Situation and Development of Beekeeping in China
Lucia Ma |
| 17:10 – 17:30 | Beekeeping with <i>Apis cerana indica</i> : A Valuable Tool to Increase Incomes for Smallholder Farmers
Sujana Krishnamoorthy |
| 17:30 – 17:50 | Dominican Beekeeping 2030: “Inclusive Development with Environmental Care”
Luis Santiago Rivas |
| 17:50 – 18:10 | The Collective Way of Innovating: a Strategy for the Development of Beekeeping in Latin America and the Caribbean
Enrique Luciano Bedascarrasbure |
| 18:10 – 18:30 | Haitian Beekeeping
Bo Sterk |

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OCTOBER 1st

USKUDAR HALL

Plenary Session / Bee Biology

Chairs: *Kaspar Bienefeld, Mete Karacaoğlu*

09:00 – 09:20 Introduction: What is New in Honeybee Science
Karl Crailsheim

09:20 – 10:00 **Plenary Talk**
Nutritional Ecology of Honeybees
Geraldine Wright

10:00 – 10:20 Simulation Studies for Long-term Preservation of Endangered Honeybee Subspecies
Manuel Plate

BEYAZIT HALL

Symposium 15 / Bee Health

Chairs: *Jeff Pettis, Levent Aydın*

09:00 – 09:20 First Record of *Megaselia scalaris* (Diptera: Phoridae) Parasitizing *Apis mellifera* (Hymenoptera: Apidae)
Hichem Ahmed Menail

09:20 – 09:40 New invasion of the Small Hive Beetle, *Aethina tumida* into Korea
Seunghwan Lee

09:40 – 10:00 Social Apoptosis Governs Resistance of Eastern Honey bees, *Apis cerana*, to Mite Infestations, Varroa destructor
Yao Qin

10:00 – 10:20 Biotechnical Approaches for Varroa Control - Different Applications of Brood Interruption, Brood Removal and Trapping Combs in Colony Management
Martin Gabel

EMIRGAN HALL

Symposium 16 / Beekeeping for Rural Development

Chairs: *Nicola Bradbear, Walter Haefeker*

09:00 – 09:20 Local Bees
Walter Steve Sheppard

09:20 – 09:40 Development of Şırnak Province Beekeeping Activities within Rural Development Projects
Şahin Karahan

09:40 – 10:00 Socio-Economic Structure and Problems of Beekeepers in Muğla
Ünal Bozyer

10:00 – 10:20 Using the R'WOT Technique to Develop the Western Mediterranean Region Strategic Action Plan for the Beekeeping Sector
Ufuk Coşgun

BEYLERBEYI HALL

Symposium 17 / Beekeeping Technology and Quality

Chairs: *Etienne Bruneau, Nuray Şahinler*

09:00 – 09:20 Cities or Rural Areas: Interests for Beekeeping
Carine Massaux

09:20 – 09:40 Social Website in Favor of the Beekeeping Sector in Lebanon
Dany Georges El-Obeid

09:40 – 10:00 Hivelog - Keep it Simple. An Easy Way to Keep Track on your Colonies
Flemming Vejsnæs

10:00 – 10:20 Commercial Production of N Chromosome Royal Jelly, Bee Venom and Royal Jelly
Hossein Yeganehrad

10:20 – 10:40

BREAK

USKUDAR HALL

KEYNOTE SPEECH

10:40 – 11:30

Sub-lethal Stress that Affects Behavior:
Comparisons of Native and Imported Species of Honey Bees
Brian Smith

USKUDAR HALL

Symposium 18 / Bee Biology

Chairs: **Geraldine Wright, Vasfi Gençer**

11:40 – 12:00

Global Survey on Diversity and Data Availability for Monitoring Honey Bees and Other Pollinators
Roswitha Baumung

12:00 – 12:20

The Importance and Effects of Industrial Sugars on Honeybee (*Apis mellifera*, Hymenoptera: Apidae)
Colony Feding
Ahmet Güler

12:20 – 12:40

Functional Heterogeneity of Honey Bee (*Apis mellifera*) Hemocytes as Defined by Monoclonal Antibodies
Erika Gábor

12:40 – 13:00

Deciphering the Characteristics of microRNA in Hypopharyngeal Gland in Honey Bee
Zhenguang Liu

BEYAZIT HALL

Symposium 19 / Bee Health

Chairs: **Dilek Muz, Aygün Schiesser**

11:40 – 12:00

Attraction of *Vespa velutina* Nigrithorax Buysson (Hymenoptera: Vespidae) to Honeybee Extraction and Synthetic Honeybee Pheromone Chemicals
Eun Jin Kang

12:00 – 12:20

Study on the Effect of Veterinary Medicines Used against Varroa Mite upon the GST Isoenzyme Profile in the Whole Body of Worker Bees
Fani Hatjina

12:20 – 12:40

Aluen Cap: Efficacy Using the Brand New Varroa Treatment
Diego Mario Iaconis

12:40 – 13:00

Identifying the Infectious Etiologies of Honeybee Colony Losses Between 2012 - 2016 in Turkey
Dilek Muz

EMIRGAN HALL

Symposium 20 / Beekeeping for Rural Development

Chairs: **İrfan Kandemir, Ayça Özkan Koca**

11:40 – 12:00

Implementing the Apimondia Open Source Breeding Material (OSB) License to Protect Beekeepers rights under the Nagoya Protocol
Walter Haefeker

12:00 – 12:20

The Pathway to Develop Emirati Bred Honeybees
Mohamed Salman Alhammadi

12:20 – 12:40

The Importance of Forming Artificial Pasture in Terms of Beekeeping from Bingöl (Turkey)
Ömer Kılıç

12:40 – 13:00

The Role of Beekeeping in Rural Development: Case of Kastamonu
Tayyibe Açıkgöz Altunel

BEYLERBEYI HALL

Symposium 21/ Beekeeping Technology and Quality

Chairs: *Etienne Bruneau, Nuray Şahinler*

- 11:40 – 12:00 Antioxidant Properties of Eastern Anatolian Flower Honey
Cengiz Erkan
- 12:00 – 12:20 When Can We Collect Honey Bee Venom?
Mahmoud El Feel
- 12:20 – 12:40 Technical Progress with the Cryopreservation of Honeybee Genetic Resources
Jakob Wegener
- 12:40 – 13:00 The Effect of Heating, Heating and Storage Time on HMF and Diastase Number in High Pine (honeydew honey) Honey Samples
Durmuş Ali Ceylan
- 13:00 – 14:10 LUNCH BREAK**

USKUDAR HALL 13:15 – 14:00

SATELLITE SYMPOSIUM



Healthy Bees LLC

USKUDAR HALL

Symposium 22 / Beekeeping Technology and Quality

Chairs: *Jonathan Stephens, Ethem Akyol*

- 14:10 – 14:30 Effect on Some Honeybee Behavior of Different Radio Frequency
Yaşar Erdoğan
- 14:30 – 14:50 Comparison of Flavonoid Fingerprints and Antioxidant Capacities of Pine Bark Extract and Honeys from Different Origins
Ufuk Alpat
- 14:50 – 15:10 Development of Cost and Time Effective, High-Sensitive Multiclass Method for Quinolone, Macrolid and Tetracycline Antibiotic Residues in Honey by UPLC-ESI-MS/MS
İsmail Emir Akyıldız
- 15:10 – 15:30 Development and Validation of Cost Effective, High-Sensitive Multiclass Method for Nitrofurans, Nitroimidazoles and Amphenicols Antibiotic Residues in Honey by UPLC-ESI-MS/MS
İsmail Emir Akyıldız
- 15:30 – 15:50 The characteristic Properties of Bee Pollens Collected from Different Regions of Turkey
İlknur Coşkun
- 15:50 – 16:10 Nutritional Differences Between Color Sorted Turkish Polyfloral Bee Pollens
Tuğçe Daştan

BEYAZIT HALL

Symposium 23 / Bee Health

Chairs: *Marc Schafer, A. Onur Girişgin*

- 14:10 – 14:30 Healthy Living of Honey Bees
Hossein Yeganehrad
- 14:30 – 14:50 The Comparison of Eucalyptus Barks and Leaves with Chemical Application Methods on Varroa destructor Control in Honey bee Colonies (*Apis mellifera* L.)
Münire Turhan
- 14:50 – 15:10 Hive Protection Against Environmental and Toxic Chemicals, the Impact on Bee Health and Food Safety
Shimon Barel
- 15:10 – 15:30 Therapeutic Potentials of Herbal Extracts in Controlling Nosemosis in Honeybees
Yingying Xu
- 15:30 – 15:50 Use of Thymus Vulgaris Ethanolic Extract for Nosema Apis Control in Honey Bee
Mostafa Moradi
- 15:50 – 16:10 ApisRAM – a Regulatory Assessment Model for Honey Bees
Fani Hatjina

EMIRGAN HALL

Symposium 24 / Pollination and Bee Flora

Chairs: **Jie Wu, Aslı Özkök**

- 14:10 – 14:30 Development of Melliferous Pollen Spectra Using Field Emission Scanning Electron Microscope Technique
Mehwish Noor
- 14:30 – 14:50 The Project of the Digital Recording of Beekeeping Spots in Muğla Province
Enver Aydın
- 14:50 – 15:10 To be or not to be of W.Shakespeare Has Been Much Discussed, but "Bees or No Bees " is Today the Biggest Question in World Agriculture
Lionel Segui Goncalves
- 15:10 – 15:30 Honeybees Management Increase the Pollination of Less Preferred Flowers
Jie Wu
- 15:30 – 15:50 Determination of Pollination Effectiveness of Different Pollinators on Alfalfa in Lakes Region of Turkey
Ayhan Gösterit
- 15:50 – 16:10 The Effect of Honeybee Pollination on Watermelon (Citrus lanatus) Fruit Quality
Çiğdem Takma

BEYLERBEYI HALL

Symposium 25 / Apitherapy

Chairs: **Janosh Körmendy-Racz, Esra Çapanoğlu Güven**

- 14:10 – 14:30 Potential Protective Effects of Bioactive Constituents from Chinese Propolis Against Acute Oxidative Stress Induced by Hydrogen Peroxide in Cardiac H9c2 Cells
Liping Sun
- 14:30 – 14:50 Antibacterial Activity of Propolis Nano-particle and Propolis Against Gram Negative- Bacteria Escherichia Coli
Houshang Afrouzan
- 14:50 – 15:10 Opportunistic Protozoan Infection in HIV Patients After Provision of Propolis in Dr Soetomo General Hospital Surabaya
James Selamat Hutagalung
- 15:10 – 15:30 Effects of Flavonoids Rich Propolis Ethanolic Extract from Three Different Malaysian Stingless Bee, Trigona Apicalis, Trigona Itama and Trigona Thoracica, on the Expression of Adhesion Molecules in Stimulated HUVEC EA.hy926
Nornaimah Asem
- 15:30 – 15:50 Bioactive Constituent of Chinese Propolis, Pinocembrin, Triggers a Mitochondrial-independent Apoptosis Via Caspase Cascade Pathway in B16F10 Melanoma Cells
Yufei Zeng
- 15:50 – 16:10 Antioxidant Content of Propolis Extracts from Different Geographical Sources
Aslı Elif Tanuğur Samancı

16:10 – 16:30

BREAK

USKUDAR HALL

Symposium 26 / Beekeeping Technology and Quality

Chairs: **Jorge Rivera Gomis, Ethem Akyol**

- 16:30 – 16:50 Remote Hive Monitoring - Sensor Synergy
Huw Evans
- 16:50 – 17:10 Commercial Apiary Management Software
James Wilkes

17:10 – 17:30	Chemotaxonomic Markers of Mugla Pine Honey with Chemometric Approach Mehmet Öztürk
17:30 – 17:50	BeeXML - Exchanging Data about Bees and Beekeeping Walter Haefeker
17:50 – 18:10	Smart Frames - The Next Generation of Nonintrusive Hive Monitoring Alwyn Smith
18:10 – 18:30	Development of Beekeeping Information Management System: A Case Study Ahmet Albayrak
BEYAZIT HALL	Symposium 27 / Bee Health Chairs: Flemming Veijnes, Ahmet Doganay
16:30 – 16:50	Antifungal Activity of Turpentine Oil against <i>Ascosphaera apis</i> a Causal Agent of Chalkbrood Disease on Honey bee <i>apis mellifera</i> Derya Baki
16:50 – 17:10	De Novo Transcriptome Assembly of <i>Apis cerana cerana</i> Larval Gut and Identification of Immune Responses to <i>Ascosphaera Apis</i> Infection Rui Guo
17:10 – 17:30	Epidemiology of <i>Nosema apis</i> and <i>Nosema ceranae</i> in Eastern Black Sea Region Fatih Yılmaz
17:30 – 17:50	Survey and Distribution Patterns of Different Honeybee Viruses in Healthy Colonies: A Case Study from Saudi Arabia Mohammad Javed Ansari
17:50 – 18:10	Labelling of Deformed Wing Virus (DWV) Uncovers Epithelial Cell Tropism Benjamin Lamp
18:10 – 18:30	Determination of Secondary Contamination Sources and Critical Control Points of Honey Production Procedures, Specifying the Risk Factors and Correlations Hayrettin Akkaya
EMIRGAN HALL	Symposium 28 / Pollination and Bee Flora Chairs: Lional Segui Goncalves, Talip Çeter
16:30 – 16:50	Pollinators' Activity on Apple Trees, Blackcurrants, Strawberries, Blueberries and Raspberries Danilo Bevk
16:50 – 17:10	Investigation of Importance of Opium Poppy (<i>Papaver somniferum</i> L.) for Beekeeping Ramazan Özşahin
17:10 – 17:30	The Pollen Spectrum of Some Monofloral Honeys from Turkey Deniz Canlı
17:30 – 17:50	Bee Diversity, Bee Pollination and Seed Set of <i>Trigonella moabitica</i> zoh. (Leguminosae) as a Native Range Plant Grown under Semiarid Mediterranean Conditions Shahera Talat Zaitoun
17:50 – 18:10	Government Attaches Importance to Pollination, Promoting Beekeeping Development in China Ming Xu
18:10 – 18:30	An Investigation about Bee Plant (<i>Phacelia tanacetifolia</i> benth.) from Olur District (Erzurum) Mehmet Ali Kutlu

BEYLERBEYI HALL

Symposium 29 / Apitherapy

Chairs: **Badia Lyoussi, Çiğdem Takma**

- 16:30 – 16:50 ARC (Apiceutical Research Centre) – An International Centre for Research into Sustainable Medicine and Sustainable Bee Keeping
James Townend Fearnley
- 16:50 – 17:10 Treatment of Upper Tract Respiratory Infections by 3% Ethanol Extracts of Propolis
Salih Maden
- 17:10 – 17:30 In Vitro Evaluation of Antimicrobial Effect of Turkish Propolis Against Human Fungal Pathogens *Candida albicans* and *Candida parapsilopsis*
Aygün Schiesser
- 17:30 – 17:50 The Implementation of Ovule Propolis as a Therapy in Patients with Vaginal Candidiasis
Siti Farida
- 17:50 – 18:10 In-vitro Antibacterial Effect of Three Propolis Samples from Turkey on Some Biofilm Forming Bacteria
Duygu Şimsek
- 18:10 – 18:30 The Isolation of Triterpenoid Derivatives from Southern Asian Region Propolis and its Anti Proliferative Effects on A2780 Cell Line
Yusnaini Md. Yusoff

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OCTOBER 2nd

USKUDAR HALL

Symposium 30 / Beekeeping Economy

Chairs: **Steve Rogenstein, Şule Azak**

- 09:00 – 09:20 Organic Beekeeping in Turkey
Tunay Kılıçin
- 09:20 – 09:40 Marketing and Branding of Bee Products in Uganda
Jude Ssettaba
- 09:40 – 10:00 “Hand in Hand with Beekeepers, Toward to Active Training: A case of Izmir Province
Mustafa Kösoğlu
- 10:00 – 10:20 Branding of Bee Products in Turkey
Gamze Saner

BEYAZIT HALL

OIE SYMPOSIUM / Bee Health

Detailed program can be seen on page 35

EMIRGAN HALL

Symposium 31 / Pollination and Bee Flora

Chairs: **Mehwish Noor, Talip Çeter**

- 09:00 – 09:20 Effects of Some Behavior Characteristics for Honey Bee and Bumble Bee in Cherry Pollination
Erkan Topal
- 09:20 – 09:40 Honeybee Forage Plants, Bee Visitation Counts and Properties of Honey from Different Agro-ecological Zones of Uganda
Alice Kangave
- 09:40 – 10:00 To Determine the Honey Bees' Conditioning Priorities Against Aromatic Flowering Herb Extract with Parlance Extraction Reaction (PER) Method
Alaeddin Yörük
- 10:00 – 10:20 The Role of Honey Bees (*Apis mellifera* L.) in the Pollination of Almond Plants
Gökhan Akdeniz

BEYLERBEYI HALL

Symposium 32 / Beekeeping Technology and Quality

Chairs: **Hossein Yeganehrad, Sibel Silici**

- 09:00 – 09:20 BPRACTICES Project: New Indicators and On-Farm Practices to Improve Honeybee Health in The *Aethina tumida* Era in Europe
Giovanni Formato
- 09:20 – 09:40 Building a Business Analytics Platform for Enhancing Smart Hive Development
Joseph Cazier
- 09:40 – 10:00 Venom Collection
Hossein Yeganehrad
- 10:00 – 10:20 Innovative Modifications of Effective and Healthy Ukrainian 3-Storeys Vasyl Priyatelenko Beehive and Unique Frames with Metal Top Bars
Victor Fursov

10:20 – 10:40

BREAK

USKUDAR HALL

10:40 – 11:30

KEYNOTE SPEECH

Improving of the Quality and Productivity of Apiteraphy Products

Norman Carreck

USKUDAR HALL

Symposium 33 / Beekeeping Economy

Chairs: **Jude Ssettaba, Buket Karaturhan**

11:40 – 12:00

Economic Evaluation of Ecosystem Service of Insect Pollination on Crop Production and its Susceptibility in Korea

Chuleui Jung

12:00 – 12:20

Innovative Approaches in Bee Products marketing

Zekeriya Onuç

12:20 – 12:40

Direct Marketing in Bee Products

Şahin Karapaça

12:40 – 13:00

A Research in the Awareness of Bee Products in Turkey

Gökhan Akdeniz

BEYAZIT HALL

OIE SESSION / Bee Health

Detailed program can be seen on page 35

EMIRGAN HALL

Symposium 34 / Pollination and Bee Flora

Chairs: **Ming Xu, Erkan Topal**

11:40 – 12:00

Greenhouse Pollination of Cucumber, Cucumis Sativa L, by Use of Honeybee, Apis mellifera scutellata Swarm

Grace Adala Asiko

12:00 – 12:20

Investigation of Species Belonging to Order Diptera (Insecta) in Kastamonu University Campus as a Pollinator

Talip Çeter

12:20 – 12:40

Honeybee Pollination as a Bio-intensive Technique for Achieving Increase in Crop Yields; Project Report Excerpt of Usaid Markets II Beekeeping/Pollination Project- 2014-2017 Nigeria

David Bonat Musa

12:40 – 13:00

Pollination for Conservation and Agro-ecological Sustenance on Crop Pollinators in Kigezi, South Western Uganda

Dominic Byarugaba

BEYLERBEYI HALL

Symposium 35 / Beekeeping Technology and Quality

Chairs: **Hossein Yeganehrad, Sibel Silici**

11:40 – 12:00

Antimicrobial Effects of Propolis Against Some Pathogenic Microorganisms

Sinan Bayram

12:00 – 12:20

Effect of Starvation Days and Starving Periods on Larval Development, Survival Rates and Emergence Weights of Worker Honeybees Reared in Vitro

Ethem Akyol

12:20 – 12:40

Queen Performance and Colony Productivity Decreases After Queens are Exposed to Temperature Extremes

Jeff Pettis

12:40 – 13:00

International Royal Jelly Standard

Chen Lihong

13:00 – 14:10

LUNCH BREAK

USKUDAR HALL

Symposium 36 / Beekeeping Economy

Chairs: *Chuleui Jung, Seref Cinbirtoğlu*

- 14:10 – 14:30 Potentials and Prospects of Stingless Beekeeping in the Philippines
Anna Albert Locsin
- 14:30 – 14:50 An Economical and Social Analysis of Apiculture in Bayburt
Kurtuluş Merdan
- 14:50 – 15:10 Royal Jelly in Turkey: Production, Cost and Marketing
Murat Emir
- 15:10 – 15:30 Measurement of Consumer Perception with Regard to the Relationship Between Bee Products-healthy Life: A Case Study of Canakkale Province
Özge Can Niyaz
- 15:30 – 15:50 The Economic Evaluation of Queen Bee Enterprises
Üzeyir Karaca
- 15:50 – 16:10 An Analysis on Economical Aspect of the Beekeeping Enterprise: A case of Kemalpaşa District Izmir /Turkey
Zekeriya Oruç

BEYAZIT HALL

OIE SESSION / Bee Health

Detailed program can be seen on page 35

EMIRGAN HALL

Symposium 37 / Bee Biology

Chairs: *Marina Meixner, Fatih Dikmen*

- 14:10 – 14:30 Transcript Expression Preference of Phosphatidylethanolamine Binding Protein Gene in Bumblebee, *Bombus lantschouensis* (Hymenoptera: Apidae)
Jiaxing Huang
- 14:30 – 14:50 Making a Queen: an Epigenetic Analysis of the Robustness of the Honey bee (*Apis mellifera*) Queen Developmental Pathway
Xu Jiang He
- 14:50 – 15:10 Direct Comparison of two Honey Bee Semen Cryopreservation Methods
Aziz Gül
- 15:10 – 15:30 Profiling Cytochrome P450 Expression in Honeybee Workers and Queens: Identification of the Cytochrome P450s Responsible for the Phenome Hydroxylation in Mandibular Glands
Yuqi Wu
- 15:30 – 15:50 The System Organization of Practical Activities in Biotechnology of Honeybees (*Apis mellifera*)
Zifa N. Saifutdinova
- 15:50 – 16:10 The Analysis of Sperm Competition During Sperm Storage Process in Honeybee (*Apis mellifera* L.) Queens by Pyrosequencing Technique
Yasin Kahya

BEYLERBEYI HALL

Symposium 38 / Beekeeping for Rural Development

Chairs: **Walter Steve Sheppard, İrfan Kandemir**

- 14:10 – 14:30 Examination of the Importance of the Beekeeping, Women Employment and Local Governments for Ensuring of the Rural Development in Izmir
Gözde Duran
- 14:30 – 14:50 Retaining Development Beekeepers in Projects Through Microfranchising
Guy Stubbs
- 14:50 – 15:10 The Current Status of Brazilian Beekeeping
Denise Araujo Alves
- 15:10 – 15:30 Livelihood Strategies and Beekeeping in Baringo County, Kenya
Renaud Heckle
- 15:30 – 15:50 Apitourism - How Tradition and Innovation Open New Alleys for Beekeeping
Riccardo Jannoni-Sebastianini
- 15:50 – 16:10 Modifying the Langstroth Honey Bee Queen Rearing Techniques to be Adoptable to the Top Bar Hives and African Bee Species
Abraham Addo Ansah Allotey

16:10 – 16:30

BREAK

USKUDAR HALL

Symposium 39 / Beekeeping Economy

Chairs: **Anna Albert Locsin, Üzeyir Karaca**

- 16:30 – 16:50 How to Reach Thousands of People in One Day and Simultaneously Educate Them on the Importance of Honeybee?
Steve Rogenstein
- 16:50 – 17:10 Evaluation of the Socio Economic Structure and Vocational Training of the Beekeeping Program Graduates
Murat Emir
- 17:10 – 17:30 Perceptions and Expectations of Turkish Beekeepers Associations' Towards the Beekeeping Sector
Emre Göksu
- 17:30 – 17:50 Beekeeper and Citizen Education in the Digital Age
Sandra Evans
- 17:50 – 18:10 Beekeeping Activities, the Demographic Characteristics of Beekeepers, the Problems of Beekeeping and the Determination of the Views of Beekeepers Related to Current Administrative and Economic Applications
Abdurrahman Köseman
- 18:10 – 18:30 General Characteristics of Bee Products' Consumers in Turkey
Özge Can Niyaz

BEYAZIT HALL

OIE SESSION / Bee Health

Detailed program can be seen on page 35

EMIRGAN HALL

Symposium 40 / Bee Biology

Chairs: **Geraldine Wright, Devrim Oskay**

- 16:30 – 16:50 Pabp2 Regulates Sex-Specific Alternative Splicing of Amdsx by Interacting with Csd in Apis mellifera
Wanwan Hu
- 16:50 – 17:10 Progress in Marker-Assisted Selection for Honey Bee Breeding
Stephen Pernal
- 17:10 – 17:30 The Impact of the Honey Bee Queen Age on Her Offspring
Kaspar Bienefeld
- 17:30 – 17:50 Initiating Breeding Programs for Genetic Improvement and Preservation of European Honey Bee Populations
Aleksandar Uzunov
- 17:50 – 18:10 Factors that Effect the Productivity of Honey Bee (Apis mellifera L.) Colony
Ali Korkmaz
- 18:10 – 18:30 Honey Bee Breeding Program for Increasing Disease Resistance and Productivity
Pierre Giovenazzo

BEYLERBEYI HALL

Symposium 41 / Beekeeping for Rural Development

Chairs: **Ayça Özkan Koca, Cengiz Erkan**

- 16:30 – 16:50 Honey Bee Conservation Areas in Turkey
İrfan Kandemir
- 16:50 – 17:10 Improvise Hive Security to Curb Menace of High risk of Honey theft in Nigeria. A case study in Osun State
Akande Ayoade Alabi
- 17:10 – 17:30 Traditional Beekeeping and Potential Development in Botswana
Queen Turner
- 17:30 – 17:50 Impact and Current Situation of Varroa Mites to Beekeeping in Zimbabwe
Jacqueline Gowe
- 17:50 – 18:10 Beekeeping History in Egypt
Saad H. D. Masry
- 18:10 - 18:30 Beekeeping: A tool for Biodiversity Conservation, Livelihood Improvement and Climate Change Adaptation. A case for Bwindi Forest Conservation Area (BFCA), South Western Uganda
Robert Ndyabarema

**OIE SYMPOSIUM ON
EMERGING INFECTIOUS AGENTS IN HONEY BEES AND OIE-LISTED DISEASES**

to be held during the
45th APIMONDIA International Apicultural Congress
Istanbul (Turkey), Monday 2 October 2017

BEYAZIT HALL

TIME	TOPIC
09:00 – 09:30	General Presentation on “OIE Activities Related to Honey Bee Health” François Diaz, OIE Headquarters
09:30 – 09:50	Vespa Velutina, In Europe: Impact on Honey Bees, Monitoring, Sensitivity and Limits of Detection and Control Methods Claire Villemant, Muséum National d'Histoire Naturelle, France
09:50 – 10:10	Crithidia spp. and Lotmaria spp., Possible Emerging Pathogens in Honey Bees Giovanni Formato, Istituto Zooprofilattico Sperimentale del Lazio e della Toscana "Mariano Aleandri", Italy
10:10 – 10:30	Discussion
10:30 – 11:00	Coffee Break
11:00 – 11:25	Could the Neogregarine Apicystis Bombi Become A Threat To Honey Bees? Santiago Plischuk, Centro de Estudios Parasitológicos y de Vectores – CEPAVE, Argentina
11:25 – 11:50	Viral Drivers of Honey Bee Losses the Deformed Wing Virus-clade and the AKI-complex (Acute Bee Paralysis Virus, Kashmir Bee Virus and Israeli Acute Paralysis Virus) Marc Schäfer, Friedrich-Loeffler-Institut, Germany
11:50 – 12:15	Criteria for the Inclusion of Diseases, Infections and Infestations in the OIE List Laura Espinosa, OIE Headquarters
12:15 – 13:00	Discussion
13:00 – 14:20	Lunch
14:20 – 14:45	Diagnosis and Detection of Different Genotypes of Paenibacillus Larvae, the Causal Agent of American Foulbrood Disease Adrianna Alippi, Universidad Nacional de La Plata, Argentina
14:45 – 15:10	Resurgence of European Foulbrood in Switzerland: A Chance to Improve Our Knowledge of the Biogeography and Pathogenicity of Melissococcus Plutonius Jean-Daniel Charrière, Agroscope - Swiss Bee Research Centre, Switzerland
15:10 – 15:35	Small Hive Beetle; Risk Assessment For Turkey Levent Aydin, Uludag University, Turkey
15:35 – 16:00	Discussion
16:00 – 16:30	Coffee Break
16:30 – 16:50	Parasitic Tropilaelaps spp. mites: Confined to Asia or Global Beekeeping Threat? Jeff Pettis, University of Bern, Switzerland
16:50 – 17:10	New Approaches to A Long-known Disease: Should Viruses Be Included Under The Definition of Varroosis? Marie-Pierre Chauzat, European Reference Laboratory for Honeybee Health, France
17:10 – 17:30	Discussion
17:30 – 17:50	Conclusions

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OCTOBER 3rd

USKUDAR HALL

Plenary Session / Apitherapy

Chairs: **Cristina Mateescu, Banu Yücel**

09:00 – 09:40

Bee Products - Food - Food Ingredients - Medicines
European Food Safety Authority (EFSA)'s Opinions and Their Future
Cristina Mateescu

09:40 – 10:20

Plenary Talk

Integrated Apitherapy in Multiple Sclerosis – Clinical Study for 80 Patients in One Year of Treatment
Cristina Açoşan

BEYAZIT HALL

Symposium 42 / Bee Health

Chairs: **Fani Hatjina, H. Hüseyin Oruç**

09:00 – 09:20

Impact of Reclaimed Water on Bee Colonies under Field and Lab Conditions
Abd Almajeed Al Ghzawi

09:20 – 09:40

Global Profiling of Metabolites in Seminal Fluid of Honeybee
Jinhui Zhou

09:40 – 10:00

Effect of Pesticides Used in Regions Where Bee Mortality is Common on Bee-body Motor Movements
Ahmed Karahan

10:00 – 10:20

The effect of Thiachloprid on Honeybee
İsmail Karaca

EMIRGAN HALL

Symposium 43 / Bee Biology

Chairs: **Stephen Pernal, Rahşan İvgin Tunca**

09:00 – 09:20

Genotyping-By-Sequencing to Support a Commercial Honeybee Crossbreeding Scheme Gertje Eta
Gertje Eta Leony Petersen

09:20 – 09:40

Assessing the Diversity of Honey Bees in Europe
Marina Meixner

09:40 – 10:00

Design and Evaluation of a High-density SNP Array for the Honeybee
Anja Susanne Strauss

10:00 – 10:20

Genetic Mitochondrial DNA Variability of Honeybees (*Apis mellifera Adansonii*) in Benin
Paraíso Armand

BEYLERBEYI HALL

Symposium 44 / Pollination and Bee Flora

Chairs: **Ming Xu, Ethem Akyol**

09:00 – 09:20

Electronic Monitoring of Honey Bee and Bumble Bee Colonies to Manage Pollinator Health and Optimise Pollination Efficacy
Alwyn Smith

09:20 – 09:40 Beekeeping with *Apis cerana Indica* as an Agricultural Input to Improve Yields for Small Farmers: Evidence from the Field in Two Districts of India
Sujana Krishnamoorthy

09:40 – 10:00 Protocol for Assessment of Pollinator Population Density
Jomar Fajardo Rabajante

10:00 – 10:20 A Study of Some Melliferous Plant Species to Provide a Guide for Establishment of *Apis mellifera adansonii* Honey Forest in Rainforest Zone of Nigeria
Victoria Onyekachi Odimba

10:20 – 10:40 BREAK

10:40 – 11:30 PANEL
WORLD BEEKEEPING

USKUDAR HALL **Symposium 45 / Apitherapy**
Chairs: **Sang Mi Han, Mehmet Emin Duru**

11:40 – 12:00 Apitherapy Center of a University Hospital in Turkey
Timuçin Atayoğlu

12:00 – 12:20 Neuromyelitis Optica Treated Successfully with Apitherapy and Phytotherapy – Case Report
Cristina Pavel

12:20 – 12:40 Potential Mechanistic Basis for Honeybee Propolis Used in Modern Medicine: Caffeic Acid Phenethyl Ester Suppresses Stress Induced Damage via Modulation of Some Signalling Pathways
Xing An Li

12:40 – 13:00 Propolis as a Candidate of Anticancer Drugs with "In-Silico" Approach from its Flavonoid Content
Akhmad Endang Zainal Hasan

BEYAZIT HALL **Symposium 46 / Bee Health**
Chairs: **Maria Bouga, Ertan Güneş**

11:40 – 12:00 Toxicity of Acaricides on *Apis mellifera* Larvae Reared in Vitro
Pingli Dai

12:00 – 12:20 Investigation of Neonicotinoid Insecticide Toxicologies in Honeybees
Hasan Hüseyin Ünal

12:20 – 12:40 Pesticides Residues Pattern in Honey and Bee Wax for Determining Appropriate Zones for Better Beekeeping Development
Enrique Mejias

12:40 – 13:00 Evaluation of American Foulbrood Disease in Honeybees in Marmara Region of Turkey between 2012-2016
Esra Satır

EMIRGAN HALL **Symposium 47 / Bee Biology**
Chairs: **Lionel Goncalves, Aziz Gül**

11:40 – 12:00 An Assay of PCR amplicons of 2008 Simple Sequence Repeats (SSRs) Loci in 16 Genomic Linkage Group of *Apis mellifera anatoliaca* Using Microfluidic DNA Chip in High Through-put Screen
Xing An Li

12:00 – 12:20 Integrating Species Delimitation Methods and Landmark Based Geometric Morphometrics on the Genus *Halictus* s. str. Latreille, 1804 (Hymenoptera: Apoidea: Halictidae)
Fatih Dikmen

12:20 – 12:40 Smartbees: The European Project for the Conservation of Endangered Honeybee Subspecies
Kaspar Bienefeld

12:40 – 13:00 Genetic Variation in Western Anatolian Honey Bees Based on mtDNA COI-COII Intergenic Region
Ayça Özkan Koca

BEYLERBEYI HALL **Symposium 48 / Pollination and Bee Flora**
Chairs: **Kazafy Taha, M. Ali Kutlu**

11:40 – 12:00 Determining Plant Origin in the Honey With DNA Based Methods
Aslı Özkök

12:00 – 12:20 Efficacy of Honeybees "Apis mellifera" on the Production of Khilla Plant "Ammi visnaga" Seeds in the Sudan
Siham Kamil Nagi

12:20 – 12:40 Lavatera thuringiaca and Echinops sphaerocephalus are Important Plants in the System of Nectariferous Conveyor in Russia
Yury Victorovich Dokukin

12:40 – 13:00 Energy Wars on World of Honey Bee (Apis mellifera L.)
Ali Korkmaz

13:00 – 14:10 LUNCH BREAK

USKUDAR HALL **Symposium 49 / Apitherapy**
Chairs: **Cristina Pavel, Oktay Yıldız**

14:10 – 14:30 The Mixture of Honey, Royal Jelly and Coenzyme Q10 Improves the Indicators of Heart Rate Variability in Elite Athletes
Vassilli Krylov

14:30 – 14:50 Royal Jelly and Coenzyme Q10 Affect the Saliva Prooxidant/antioxidant Balance in Highly Qualified Athletes
Vassilli Krylov

14:50 – 15:10 Potential Protective Effect of 10-HDA from Royal Jelly Against Inflammation Induced by Lipoteichoic Acid
Yifan Chen

15:10 – 15:30 Effect of N Chromosome Royal Jelly on White Blood Cell Count
Hossein Yeganehrad

BEYAZIT HALL **Symposium 50 / Bee Biology**
Chairs: **Karl Crailsheim, Halil Yeninar**

14:10 – 14:30 Determination of Lifespan of Different Honeybee (Apis mellifera L.) Genotypes (Nigde ecotype, Caucasian, Mugla and Italian) in Nigde Province Condition by Survival Analysis
Adnan Ünalan

14:30 – 14:50 Honey Bee Conservation Areas in Europe
Laetitia Papoutsis

14:50 – 15:10 Adaptive Traits of Turkish Honeybee Subspecies in Response to Climate: A Survey and a Test of Niche Overlap
Mert Kükrer

15:10 – 15:30 Forest Cover Influences Stingless Bee Diversity in Brazilian Atlantic Forest
Marcela De Matos Barbosa

EMIRGAN HALL **Symposium 51 / Pollination and Bee Flora**
Chairs: **Siham Kamil Nagi, Ethem Akyol**

14:10 – 14:30 Native Honeybee Outperform Adventives Honeybee in Increasing Pear (*Pyrus bretschneideri*) Pollination
Jie Wu

14:30 – 14:50 The Appropriate Sex Ratio and Density of the *Osmia* Bee (*Osmia cornifrons*) for Apple Pollination
Kyeong Yong Lee

14:50 – 15:10 Comparison of Honey Bee Hives of Different Sizes, and Hive Product Income in Hybrid Seed Canola Pollination in Southern Alberta, Canada
Shelley E. Hoover

15:10 – 15:30 Colony Multiplication and Management of Stingless Bees to Provide Crop Pollination Services in Brazil
Cristiano Menezes

BEYLERBEYI HALL **Symposium 52 / Beekeeping for Rural Development**
Chairs: **İrfan Kandemir, Cengiz Erkan**

14:10 – 14:30 Boosting the Potential of Beekeeping Through Free Access to Validated Practices and Technologies: the Role of TECA
Charlotte Lietaer

14:30 – 14:50 Beekeeping in Ukraine
Gornich Mykola

14:50 – 15:10 Opening of Foreign Markets to Small and Medium Producers of Bee Products of Ukraine
Tetyana Vasylykivska

15:10 – 15:30 Suitable Site Analysis for Beekeeping Activities Via Analytical Hierarchy Process (AHP) and Geographical Information Systems (GIS) Integration
Fatih Sari

ROUND TABLES

SEPTEMBER 30th, 2017

10:00 - 12:00 **HONEY ADULTERATION**
Moderators: Norberto Garcia Greou , Etienne Bruneau, Nevzat Artık,
Ahmet Güler

14:00 - 16:00 **CONTINENTS SPEAKING / EUROPE**

OCTOBER 1st, 2017

10:00 - 12:00 **CONTINENTS SPEAKING / AFRICA**

14:00 - 16:00 **CONSERVATION OF LOCAL BEES AND GENETIC POLLUTION**
Moderator: Maria Bouga

16:00 - 18:00 **CONTINENTS SPEAKING / ASIA**

OCTOBER 2nd, 2017

10:00 - 12:00 **BEE HEALTH AND BREEDING BETTER BEES**
Moderator: Marina Meixner

14:00 - 16:00 **CONTINENTS SPEAKING / AMERICAS**

16:00 - 18:00 **CONTINENTS SPEAKING / OCEANIA**

OCTOBER 3rd, 2017

10:00 - 12:00 **PESTICIDES and ANTIBIOTICS POLLUTION**
Moderators: Fani Hatjina, Geraldine Wright, Ali Bilgili

14:00 - 15:30 **MOVIE**
“VANISHING OF THE BEES”
Directed by : George Langworthy and Maryam Henein
Narrated by : Ellen Page

POSTER PRESENTATIONS



APITHERAPY

[Abstract:0039]

Tooth Coating Containing Propolis and Casein Phosphopeptide – Amorphous Calcium Phosphate (CPP-ACP) for Preventing Dental Caries and Inhibit Dental Demineralization

Muhamad Sahlan^{1,2}, Lucia Purwanti¹, Nindya Sulistyani¹, Heri Hermansyah¹, Sri Angky³

¹Department of Chemical Engineering, Faculty of Engineering, Universitas Indonesia

²Research Center for Biomedical Engineering, Faculty of Engineering, Universitas Indonesia

³Department of Oral Biology, Faculty of Dental Medicine, Universitas Indonesia

[Abstract:0043]

Effects of Honeybee Venom in Drinking Water on Growth Performance of Broiler Chickens

Sang Mi Han, In Phyo Hong, Soon Ok Woo, Se Gun Kim

Department of Agricultural Biology, National Institute of Agricultural Science

[Abstract:0044]

Evaluation of Anti-acne Property of Purified Bee Venom Serum in Humans

Sang Mi Han, In Phyo Hong, Soon Ok Woo, Se Gun Kim

Department of Agricultural Biology, National Institute of Agricultural Science, South Korea

[Abstract:0045]

Effects of Honeybee Venom Against Methicillin-resistant Staphylococcus Aureus

Sang Mi Han, In Phyo Hong, Soon Ok Woo, Se Gun Kim

Department of Agricultural Biology, National Institute of Agricultural Science, South Korea

[Abstract:0046]

Characteristic Component of Sugar Fed Honeys Compared to Natural Honeys

Se Gun Kim, In Phyo Hong, Soon Ok Woo, Sang Mi Han

Department of Agricultural Biology, National Institute of Agricultural Science, South Korea

[Abstract:0047]

Quantitative Analysis of Chrysin and Pinocembrin in Propolis

Se Gun Kim, In Phyo Hong, Soon Ok Woo, Sang Mi Han

Department of Agricultural Biology, National Institute of Agricultural Science, South Korea

[Abstract:0062]

The Expression of Cyclooxygenase Enzymes in Inflamed Rat Dental Pulp After Capped with Trigona sp. Propolis from Indonesia

Ardo Sabir¹, Latief Mooduto², Cahyono Kaelan³, Sherly Horax⁴, Rina Masadah³

¹Department of Conservative Dentistry, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

²Department of Conservative Dentistry, Faculty of Dentistry, Airlangga University, Surabaya, Indonesia.

³Department of Pathological Anatomy, Faculty of Medicine, Hasanuddin University, Makassar, Indonesia.

⁴Department of Pediatric Dentistry, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

[Abstract:0063]

The Influence of Trigona Sp. Propolis on Antibacterial Activity of Glass Ionomer Cement Toward Streptococcus mutans Growth

Ardo Sabir, Nengsi Yusuf

Department of Conservative Dentistry, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

[Abstract:0090]

A Bee Miracle: APILARNIL

Miray Dayioğlu, Neslihan Özsoy

Aegean Agricultural Research Institute, Izmir, Turkey

[Abstract:0091]

Supplement with Honey as an Apitherapy: Antioxidant and Hepatoprotective Effect of A. cerana Honey Against Acute Alcohol-induced Liver Damage in Mice

Zhao Haoan, Cheng Ni, Cao Wei

Department of Food Science and Engineering, School of Chemical Engineering, Northwest University, Xi'an, China

[Abstract:0099]

Endemic Source of Natural Antibiotics from Chilean Honeybee Pollen Extracts

Gloria Montenegro¹, Patricia Velásquez¹, Karina Rodríguez¹, Ady Giordano²

¹Facultad de Agronomía e Ingeniería Forestal Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, Macul, Chile

²Facultad de Química Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, Macul, Chile

[Abstract:0113]

Inhalation Therapy of Adrenal Intoxication of Rats with a Preparation of Royal Jelly and Propolis "Apingalin"

Vasilii Krylov, Svetlana Kopylova, Ksenia Vlasova

Lobachevsky state University, Nizhny Novgorod, Russia

[Abstract:0114]

Royal Jelly and Ubiquinone-10 Improve Hematological and Physical Performance in Swimmers

Vasilii Krylov, Elena Krylova, Vladislav Seleznev

Lobachevsky State University, Nizhny Novgorod, Russia

[Abstract:0116]

Royal Jelly and Ubiquinone-10 Improve Blood Counts and Endurance of Rats During Physical Exertion

Elena Krylova, Elena Dubkova, Tatyana Prokofyeva

Lobachevsky State University, Nizhny Novgorod, Russia

[Abstract:0148]

Antioxidant Properties and Total Phenols of Propolis Samples from Algeria

Soumeia Krinat¹, Ahmed Nouasri¹, Aicha Kesouri³, Tahar Dob²

¹Department of natural sciences, ENS-Kouba, Algiers, Algeria

²Department of chemistry, ENS-Kouba, Algiers, Algeria

³Faculty of Biology, USTHB, Algiers, Algeria

[Abstract:0176]

Using Facilities of Apilarnil (Bee Drone Larvae) in Animal Breeding

Banu Yücel, Çağrı Kandemir, Turgay Taşkın, Nedim Koşum

Department of Animal Science, Faculty of Agriculture, Ege University, İzmir, Turkey

[Abstract:0186]

Improve Oxygen-transport Function of Blood Under the Action of Bee Venom

Anna Deryugina, Elena Gracheva, Maria Talamanova

Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod, Russia

[Abstract:0208]

Is Acacia Honey Having Potential Wound Healing

Ahmed Hegazi¹, Faiz Al Guthami², Ahmed Al Getham², Mohamed H. Basiouny²

¹Zoonotic Diseases, National Research Centre, Egypt

²Al Guthami Foundation, Saudi Arabia

[Abstract:0209]

Bee venom: A source of Medicine for Protozoal Infections

Eman H. Abdel Rahman¹, Ahmed G Hegazi²

¹Parasitology Dept, National Research Centre, Egypt

²Zoonotic Diseases, National Research Centre, Egypt

[Abstract:0241]

Antioxidant Properties and Total Phenolic Contents of Propolis Samples Collected from Turkey

Gürkan Demirkol¹, Şeref Çınbıroğlu²

¹Ordu University Faculty of Agriculture Department of Field Crops, Altınordu/Ordu, Turkey

²Apiculture Research Institute, Altınordu/Ordu, Turkey

[Abstract:0316]

Effect of Storage on Antioxidant Activity of Pollen with Packaged Different Method

Neslihan Çakıcı, Nurten Türkarlan, Fazıl Güney

Apiculture Research Institute, Ordu / Turkey

[Abstract:0343]

Wax Cream with Anti-inflammatory and Bio-stimulating Effects

Mikhail Fadeev¹, Vasilii Kuskichev², Elena Krylova³

¹Apitherapy Support & Development Union, Tver, Russia

²Zdorov Company, Tver, Russia

³Nizhny Novgorod State University, Nizhny Novgorod, Russia

[Abstract:0359]

The Antioxidant Effects of Natural Additive that Bee-pollen in Yogurt

Mesut Ertan Güneş¹, Saliha Şahin²

¹M.Ertan Güneş University of Uludag, Vocational School of Technical Sciences, 16059 Bursa, Turkey

²Saliha Şahin University of Uludag, Faculty of Science and Arts, Department of Chemistry, 16059 Bursa, Turkey

[Abstract:0362]

Evaluation of Antimicrobial Activity of Methylglyoxal - The Major Antibacterial Component of Manuka Honey

Aygün Schiesser¹, Derya Şimşek², Ilkyaz Sarımeahmetoğlu², Gonca Esendimir²

¹Hacettepe University, Department of Biology, Ankara, Turkey

²TED Ankara College Foundation High School, Ankara, Turkey

[Abstract:0364]

Proline in the Honey

Neslihan Çakıcı, Nurten Türkarlan, Hilal Tevkür, Mukaddes Arıgül Apan

Apiculture Research Institute, Ordu, Turkey

[Abstract:0368]

Apilarnil – A Hidden Champion in Bee Keeping and Apitherapy

Thomas Gloger

Api-Zentrum-Ruhr, Castrop-Rauxel, Germany

[Abstract:0375]

Honey as a Functional Food

Zümrüt Açıkgöz, Banu Yücel

Department of Animal Science, Faculty of Agriculture, Ege University, Izmir, Turkey

[Abstract:0376]

Using Bee Pollen as a Nutrient Supplement or Feed Additive in Poultry Production

Zümrüt Açıkgöz, Banu Yücel

Department of Animal Science, Faculty of Agriculture, Ege University, Izmir, Turkey

[Abstract:0377]

A New Hope in Neurology: Honey Bee Venom as a Neuromodulator

Esra Akyüz¹, Banu Yücel²

¹Selçuk Public Hospital, Selçuk, Izmir, Turkey

²Department of Animal Science, Faculty of Agriculture, Ege University, Bornova, Izmir, Turkey

[Abstract:0378]

Polyphenol-rich Extract from Propolis Reduces the Expression Streptococcus Mutans Glucosyltransferases and Regulatory Genes at Subinhibitory Concentrations

Veloz Perez Jorge

Chemistry and Biological Sciences Department, Faculty of Sciences, San Sebastian University, Chile

[Abstract:0390]

Study of Interaction between Origanum Vulgare Essential Oil and Twelve Honeys (Aromiels) from Palestine and Morocco Against Six Bacterial Strains Pathogens

Hamada Imtara, Bakour Meryem, Lyoussi Badiia

University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & Environmental Health

[Abstract:0391]

Identification of Phenolic Compounds in Two Palestinians Propolis with Antibacterial and Antioxidant Properties

Hamada Imtara, Lyoussi Badiia

University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & Environmental Health

[Abstract:0392]

Antioxidant Content, Free Radical Scavenging Activity and Identification of Phenolic/flavonoid Compounds in Pollen of Fourteen Plants Using HPLC-DAD Analysis

Bakour Meryem¹, Campos Maria Graça², Imtara Hamada¹, Lyoussi Badiia¹

¹University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & environmental Health

²Laboratory of Pharmacognosy, Faculty of Pharmacy, University of Coimbra, Health Sciences Campus, Azinhaga de Santa Coimbra, Coimbra 3000-354, Portugal

[Abstract:0394]

Chemical Composition, Antioxidant and Antimicrobial Profile of Propolis from Different Regions of Morocco

Touzani Soumaya¹, El Meneyiy Nawal¹, Bratko Filipic², Elarabi Ilham¹, Lyoussi Badiia¹

¹University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & Environmental Health, Fez, Morocco

²Institute for Microbiology and Immunology, Medical Faculty of Ljubljana, University of Ljubljana, Slovenia

[Abstract:0406]

Antibiofilm, Antioxidant and Quorum Quenching Activities of Propolis Samples from Southwest Anatolia

Özgür Ceylan¹, Halime Aliç², Rahşan İvgin Tunca³

¹Department of Food Processing, Ula Ali Koçman Vocational School, Muğla Sıtkı University, Muğla, Turkey

²Department of Biology, Muğla Sıtkı University, Muğla, Turkey

³Department of Plant and Animal Breeding, Ula Ali Koçman Vocational School, Muğla Sıtkı University, Muğla, Turkey

[Abstract:0407]

Propolis: A Review on its Composition and Chemistry, Antioxidant and Antimicrobial Activities, Bioavailability, and Health Benefits

Tuğba Özdağ¹, Melissa Begüm Tuna¹, Dilek Boyacıoğlu²

¹Department of Food Engineering, Okan University, Istanbul, Turkey

²Department of Food Engineering, Istanbul Technical University, Istanbul, Turkey

[Abstract:0417]

Using Honey in Extraction of Foods, Pharmaceutical Drugs, Cosmetics and Herbal Medicines

Mohammad Mahdi Sadeghi

ShefaCenter: Scientific Investigations Center for Treatment of Honey and Bee Products, Qom, IRAN

[Abstract:0457]

Effects of Bee By-Products on Autoimmune Diseases

Hossein Yeganehrad, Soheil Yeganehrad, Sina Yeganehrad

Caspian Apiaries

[Abstract:0458]

Effects of N Chromosome Royal Jelly, Bee Venom, and Propolis on Antimicrobial Resistant Bacteria

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¹Farvardin Lab

²Caspian Apiaries

[Abstract:0473]

Inhibitory Growth Effect of Melipona Beecheii Honey Against Two Relevant Human Pathogens, Salmonella Typhimurium and Helicobacter Pylori

Elizabeth Ortiz Vazquez, Monica Morales Cortes, Janeth Lara Torres, Gabriel Varguez Cruz, Jesus Ramon Sierra, Denis Magaña Ortiz

Division de Estudios de Posgrado e Investigacion. Instituto Tecnológico de Mérida. Av. Tecnológico s/n. Merida, Yucatan, Mexico.

[Abstract:0477]

Antioxidant Activity, Free Sugar and Organic acid of Pollens from Quercus Spp. in Korea

Youngki Park, Jae Hee Kim, Sae Hyun Kim

Department of Forest Genetic Resources, National Institute of Forest Science, Suwon, Republic of Korea

[Abstract:0490]

Comparison of the Antioxidant and Anti-inflammatory Properties of Royal Jelly from Different Countries of the Mediterranean Basin

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¹Laboratory of Physiology-Pharmacology-Environmental Health, University Sidi Mohamed Ben Abdallah, Fez 30 000, Morocco.

²Department of Chemistry and Pharmacy, MeditBio, Faculty of Science and Technology, University of Algarve, Campus de Gambelas, 8005-139 Faro, Portugal.

[Abstract:0492]

The Volatile Composition of Moroccan Propolis

El Guendouz Soukaina¹, Miguel Maria Graça², Figueiredo Ana Cristina³, Lyoussi Badiia¹

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[Abstract:0494]

Protective Effect of Propolis in Proteinuria, Crystaluria, Nephrotoxicity and Hepatotoxicity Induced by Ethylene Glycol Ingestion

El Meniyi Nawal, Bakour Meryem, Lyoussi Badiia

University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & Environmental Health, Fez, Morocco

[Abstract:0498]

Antioxydant Activity, Nephroprotective and Hepatoprotective Effect of Hydro-ethanolic Extract of Fresh Bee Pollen Against Acute Toxicity of Radio Agent in Rats

Elghouizi Asmae, Asfoury Sara, Elmenyiy Nawal, El Haskoury Redouan, Elfetri Salma, Lyoussi Badiaa

University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & environmental Health, Fez, Morocco

[Abstract:0499]

Evaluation of the Antioxidant Activity and Nephrohepatoprotective Effect of Propolis in Wistar Rats

Laaroussi Hassan, Elhaskoury Redouan, Lyoussi Badiaa

University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & environmental Health, Fez, Morocco

[Abstract:0521]

Characterization of Water Extract of Turkish Propolis by HPLC and GC-MS Methods

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²Department of Analytical Chemistry, Faculty of Pharmacy, Karadeniz Technical University, Trabzon, Turkey

[Abstract:0527]

Investigation of Protective Effect of Water Extract of Turkish Propolis Against Oxidative Damage Induced by Tert-butyl Hydroperoxide on the Erythrocyte Cells

Ertuğrul Yiğit¹, Orhan Değer¹, Selim Demir², Kübra Akbulut Çakıroğlu¹, Katip Korkmaz¹

¹Department of Medical Biochemistry, Faculty of Medicine, Karadeniz Technical University, Trabzon, Turkey

²Department of Nutrition and Dietetics, Faculty of Health Sciences, Karadeniz Technical University, Trabzon, Turkey

[Abstract:0535]

Effect of Pollen Density on Antioxidant Activities of Citrus Honeys Produced in Muğla (Turkey)

Şükrü Karataş¹, Meltem Taş², Abdurrahman Aktümsek¹, Mehmet Emin Duru²

¹Selçuk University, Department of Biology, Konya, Turkey

²Muğla Sıtkı Kocman University, Department of Chemistry, Muğla, Turkey

[Abstract:0538]

Ethanolic Extract of Turkish Propolis Induces Apoptotic Cell Death in Human Cervix Cancer (HeLa) Cells

Selim Demir¹, Yüksel Aliyazıcıoğlu², Kübra Akbulut Çakıroğlu², Serap Özer Yaman², İbrahim Turan³, Ahmet Menteşe⁴, Deniz Kulaksız⁵, Orhan Değer²

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⁵Department of Obstetrics and Gynecology, Faculty of Medicine, Karadeniz Technical University, Trabzon, Turkey

[Abstract:0544]

Acetylcholinesterase and Butyrylcholinesterase Enzyme Inhibition Activities of Thyme Honeys Produced in Muğla (Turkey)

Şükrü Karataş¹, Selçuk Küçükaydın², Abdurrahman Aktümsek¹, Mehmet Emin Duru²

¹Selçuk University, Department of Biology, Konya, Turkey

²Muğla Sıtkı Kocman University, Department of Chemistry, Muğla, Turkey

[Abstract:0588]

Nonpolar Organic Compounds of Lavandula Stoechas Honey

Mehmet Emin Duru¹, Selçuk Küçükaydın¹, Meltem Taş¹, Çiğdem Kuş¹, Hüseyin Türkoğlu²

¹Department of Chemistry, Faculty of Science, Muğla Sıtkı Koçman University, Muğla, Turkey

²Ula Ali Koçman Vocational School, Department of Food Processing, Muğla Sıtkı Koçman University

[Abstract:0600]

Investigation of Cytotoxic Effects of Bee Venom on Cervical Carcinoma (HELA), and Colon Adenocarcinoma Cancer Cells

Saliha Ekşi¹, Nebahat Ejder¹, Okta Yılmaz², Zihni Yazıcı¹, Sevgi Kolaylı³

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³Karadeniz Technical University, Faculty of Sciences, Department of Chemistry, Trabzon, Turkey

[Abstract:0602]

Concentration of Propolis in Inhibiting *Candida Albicans* Invitro, in Selection for Candidiasis Vagina

Robiatul Adawiyah¹, Muhamad Sahlan², Sri Angky Sukanto³, Siti Farida⁴

¹Parasitology department, Faculty of Medicine, Universitas Indonesia

²Majoring Technology Bioprocess, Faculty of Chemical Engineering, Universitas Indonesia

³Faculty of Dentistry, Universitas Indonesia

⁴Pharmacy department, Faculty of Medicine, Universitas Indonesia

[Abstract:0603]

Biologically Active Peptides Derived from Royal Jelly

Mehtap Er¹, Hasan Temiz², Atiye Değirmenci¹, Oktay Yıldız¹, Sevgi Kolaylı³

¹Karadeniz Technical University, Maçka Vocational School, Food Processing Department, Maçka, Trabzon, Turkey.

²Ondokuz Mayıs University, Faculty of Engineering, Department of Food Engineering, Samsun, Turkey.

³Karadeniz Technical University, Faculty of Science, Department of Chemistry, Trabzon, Turkey

[Abstract:0605]

Comparison of Anti-Inflammatory and Antioxidant Activity of Flower Honeys Produced in Various Countries

Kübra Elik¹, Selçuk Küçükaydın¹, Erhan Kaplaner¹, Fatma Aydoğmuş Öztürk², Yusuf Sıcak³, Mehmet Öztürk⁴, Mehmet Emin Duru⁴

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⁴Mugla Sıtkı Koçman University, Food Application and Research Center, 48121, Mugla

[Abstract:0607]

Apitoxin Reduces CD4+ Cell Proliferation Modulating an Anti-replicative Response in Lymphocytes from Patients with Human T- Lymphotropic Virus 1 (HTLV-1)

Maryam Paredes¹, Giovanni López¹, Gabriela Ayuque¹, Eduardo Gotuzzo¹, Eduardo Gotuzzo³, Fernando Mejía¹, Fernando Mejía³,

Carolina Alvarez¹, Carolina Alvarez², Michael Talledo¹

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³Departamento de Enfermedades Infecciosas, Tropicales y Dermatológicas, Hospital Cayetano Heredia

[Abstract:0619]

Antimicrobial Effects of Propolis Against Plant Pathogens

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¹Ordu University Faculty of Agriculture Department of Field Crops, Altınordu/Ordu, Turkey

²Apiculture Research Institute, Altınordu/Ordu, Turkey

[Abstract:0625]

Melittin Reduces *In-vitro* Human T Lymphotropic Virus Type 1 (HTLV-1) Replication and Proliferation of Peripheral Blood Mononuclear Cells (PBMC) from Infected Patients

Giovanni López¹, Maryam Paredes¹, Carolina Alvarez¹, Carolina Alvarez², Fernando Mejía¹, Fernando Mejía³, Eduardo Gotuzzo¹, Eduardo Gotuzzo³, Michael Talledo¹

¹Instituto de Medicina Tropical “Alexander von Humboldt”, Universidad Peruana Cayetano Heredia, Lima, Perú

²KU-Leuven – University of Leuven, Department of Microbiology and Immunology, Rega Institute for Medical Research, Clinical and Epidemiological Virology, Leuven, Belgium

³Departamento de Enfermedades Infecciosas, Tropicales y Dermatológicas, Hospital Cayetano Heredia, Lima, Perú

[Abstract:0632]

Anti-aging Effects of Dietary Bee Products and Calorie Restriction on Semen Production and Oxidative Damage in Older Broiler Breeder Males

Çiğdem Şeremet Tuğalay, Özge Altan

Ege Üniversitesi, Ziraat Fakültesi, Zootečni Bölümü, İzmir, Türkiye

[Abstract:0635]

Propolis Addition to Heat-treated Dry Fermented Sausage Formulations as a Powerful Antimicrobial Agent from Sensory Analysis Perspective

Tuğba Özdağ¹, Dilek Boyacıoğlu²

¹Department of Food Engineering, Okan University, Istanbul, Turkey

²Department of Food Engineering, Istanbul Technical University, Istanbul, Turkey

[Abstract:0654]

The Effects of Propolis and Flunixin Meglumine on Feed Intake, Body Weight, Body Weight Change, and Histological Changes in Liver and Kidney Tissues Against Excess Copper in Rats

Pinar Tatlı Seven¹, Burcu Gül Baykalır², Tuba Parlak Ak³, İsmail Seven⁴, Mine Yaman⁵

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²Department of Nursing, University of Firat, Elazığ, TURKEY

³Department of Nutrition and Dietetic, University of Munzur, Tunceli, TURKEY

⁴Department of Plant and Animal Production, University of Firat, Elazığ, TURKEY

⁵Department of Pharmaceutical Toxicology, University of Firat, Elazığ, TURKEY

[Abstract:0683]

Investigation of Phenolic Compounds and Antioxidant Capacity of Bee Pollen Collected from Different Geographical Regions in Turkey

Peria Tabatabaei, Cevat Nisbet

Department of Biochemistry Faculty of Veterinary Medicine University of Ondokuzmayis 55139 Kurupelit Samsun, Turkey

[Abstract:0684]

Evaluation of the Potential Properties of *Pediococcus acidilactici* Isolated from *Apis mellifera* Gut Microbiota, as Therapy for Skin Wounds

Tugce Onbas, Ozlem Osmanagaoglu, Fadime Kiran

Department of Biology, Ankara University, Ankara, Turkey

[Abstract:0699]

Anti-biofilm Forming and Anti-quorum Sensing Activity of *Pediococcus acidilactici* Isolated from *Apis mellifera* Gut Microbiota

Tugce Onbas, Ozlem Osmanagaoglu, Fadime Kiran

Department of Biology, Ankara University, Ankara, Turkey

[Abstract:0700]

Antioxidative Properties of Water Soluble Propolis Made with Honey

Soonok Woo, Inpyo Hong, Sangmi Han

National Institute of Agricultural Sciences

[Abstract:0702]

Does Propolis Protect Against Radioactive Ray Effects?

Oktay Yildiz¹, Atiye Değirmeci¹, Serdar Dizman², Sevgi Kolaylı³

¹Karadeniz, Technical University, Maçka Vocational High School, Trabzon, Turkey

²Recep Tayyip Erdogan University, Faculty of Sciences and Arts, Department of Physics, Rize, Turkey

³Karadeniz, Technical University, Faculty of Sciences, Department of Chemistry, Trabzon, Turkey

[Abstract:0709]

Antifungal Activities of Clove Oil *Eugenia caryophyllata* Thunb. Against *Ascosphaera apis* a Causal Agent of Chalkbrood Disease on Honey Bee (*Apis mellifera* L.)

Esin Basım¹, Hüseyin Basım², Derya Baki²

¹The University of Akdeniz, Korkuteli Vocational School, Department of Horticulture, Antalya/Turkey

²The University of Akdeniz, Faculty of Agriculture, Department of Plant Protection, Antalya/Turkey

[Abstract:0718]

Glycemic Index Values of Highbush Cranberry Juice (*Viburnum opulus*) with Honey

Meltem Soylu¹, Neriman İnanc¹, Timuçin Atayoğlu², Sibel Silici³

¹Nuh Naci Yazgan University, Faculty of Health Sciences, Department of Nutrition and Dietetics, Kayseri

²Medipol University, Faculty of Medicine, Department of Family Medicine, Istanbul

³Erciyes University, Agriculture Faculty, Department of Agricultural Biotechnology, Kayseri

[Abstract:0747]

Bioactive Properties of Medical Honeys in Turkey

Sibel Silici¹, Nisa Ulgen¹, Duran Ozkok², Ethem Akyol³

¹Erciyes University, Agriculture Faculty, Department of Biotechnology, Kayseri

²Erciyes University, S.Cikrikcioglu Vocational College

³Omer Halisdemir University, Department of Animal Production and Technology

[Abstract:0761]

A Study on Antifungal Activity of Propolis Extract Against Fusarium oxysporium

Nuray Şahinler, M.Uygar Türk, Havva Dinler, Mahmut İslamoğlu

Usak University, Faculty of Agriculture and Natural Sciences

[Abstract:0772]

In-vitro Inhibition of Staphylococcus aureus by Apitoxin and Mellitin

G. Dailoff¹, J. Dukart², V. Neder³, A. Palacio⁴, J. Caporgno³, L. Calvino³, P. Chacana¹

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²Programa Apícola de la APDR de Ceres y Hersilia, Argentina

³EEA Rafaela, INTA, Argentina

⁴EEA Balcarce, INTA, Argentina

[Abstract:0774]

Lifelong Treatment with Royal Jelly Extends Healthy Lifespan of Genetically Heterogeneous Mice.

Ken Hashimoto¹, Nobuaki Okumura¹, Toshihiko Toda², Yusuke Ozawa², Kenji Watanabe², Tomoki Ikuta¹, Tomoki Tatefuji¹, Takahiko Shimizu²

¹Yamada Bee Company, Inc., Institute for Bee Products and Health Science

²Chiba University Graduate School of Medicine, Department of Advanced Aging Medicine

[Abstract:0775]

Effects of Bilberry, Lutein and Brazilian Propolis Diet on Eye Fatigue in Humans: A Double-blind Randomized Placebo Controlled Crossover Study

Tomoki Tatefuji¹, Ayanori Yamaki¹, Yuka Kimura¹, Hideyo Nagae¹, Tetsuya Sado¹, Ken Hashimoto¹, Osami Kajimoto²

¹Yamada Bee Company, Inc. Institute for Bee Products & Health Science

²Osaka City University Graduate School of Medicine

[Abstract:0776]

Yoga Bee, a New Approach for Health

Catherine Flurin

Ballot-Flurin Apiculteurs

[Abstract:0781]

The Antidiabetic Effect of Saharan Algerian Honey and Pollen "in Vivo Study in The Rat"

Djebl Nouredine, Abdesadok Imane, Chenini Hadjer, Attari Faiza

Pharmacognosy & api phytotherapy laboratory, Mostaganem University – ALGERIA

[Abstract:0782]

Impact of Propolis on Cryopreservation of Arctic Charr (Salvelinus alpinus) Sperm

K. A. El Battawy¹, E. Brannas²

¹National Research Center, Animal Reproduction and A.I. Dept., Cairo, Egypt

²Swedish University of Agricultural Sciences, Department of Wildlife, Fish and Environmental Studies Skogsmarksgränd SE-901 83 Umea, Sweden

[Abstract:0785]

Influence of Bee Venom Therapy on twenty five cases of Multiple Sclerosis

K. A. El Battawy, B. Jassem

National Research Center & International clinic, Heliopolis, Airport road



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BEE BIOLOGY

[Abstract:0027]

Telepathy Bees

Uladzimir Pyatrovich Usik
individual

[Abstract:0042]

The Influence of Dopamine on Flying Behavior of Honey Bee Workers

Sayed Ibrahim Farkhary¹, Ken Sasaki², Shinya Hayashi³, Ken Ichi Harano², Satoshi Koyama³, Toshiyuki Satoh³

¹Applied Veterinary Science, United Graduate School of Veterinary Science, Gifu University, Gifu, Japan

²Honeybee Science Research Center, Tamagawa University, Tokyo, Japan

³Laboratory of Ethology, Department of Veterinary Medicine, Faculty of Agriculture, Tokyo University of Agriculture and Technology, Tokyo, Japan

[Abstract:0075]

Subspecies Differences in Chromatin Methylation and Gene Expression Rates Associated with Colony Survival in Honeybees

Yehya Zaki Alattal, Ahmad Abdallah Alghamdi

Department of Plant protection, King Saud University

[Abstract:0080]

Bee Feeding

Jude Ssettaba

Native Products Ltd, Uganda-Kampala, General Manager

[Abstract:0082]

Determination of Pesticide Residues in Bee Produces Honey Using Gas Chromatography Mass Spectrometry

Taye Beyene Lemma

Department of Apiculture, Adami Tulu Agricultural Research Center

[Abstract:0097]

Reflections in Colony of Inbreeding on Honey Bees

Neslihan Özsoy¹, Prof. Dr. Banu Yücel², Miray Dayioğlu¹

¹Department of Apiculture, Aegean Agricultural Research Institute, Izmir, Turkey

²Department of Animal Science, Ege University, Faculty of Agriculture, Izmir, Turkey

[Abstract:0098]

Vision of Morphological Studies in Beekeeping

Neslihan Özsoy¹, Prof. Dr. Banu Yücel², Miray Dayioğlu¹, Prof. Dr. Çiğdem Takma², Üzeyir Karaca¹, Mustafa Kösoğlu¹, Erkan Topal¹

¹Department of Apiculture, Aegean Agricultural Research Institute

²Department of Animal Science, Ege University, Faculty of Agriculture

[Abstract:0128]

From Wintering Inside the Honeycomb to Wintering in the Club

Valerii Semeniuk, Nadiia Semeniuk

Allukrainian public association "Union of beekeepers of Ukraine"

[Abstract:0129]

Apiculture in the Context of Global Climate Change

Valerii Semeniuk, Nadiia Semeniuk

Allukrainian public association "Union of beekeepers of Ukraine"

[Abstract:0134]

Breeding of Disease Resistance Honeybee Lines in *Apis mellifera* Basis of Hygienic Behavior

Hye Kyung Kim, Man Young Lee, Myeong Lyeol Lee, Yong Soo Choi, Kyu Ho Byeon, En Jin Kang

National Institute of Agricultural Science, R.D.A. Wanju, Korea

[Abstract:0157]

The Assessment of Non-Reproduction Rate of Varroa (*Varroa destructor*) in a Selection Apiary in Romania – a Comparative Approach 2015-2016

Eliza Cauia, Adrian Siceanu, Dumitru Cauia, Gabriela Oana Visan

Institute for Beekeeping Research and Development

[Abstract:0166]

Annual Production of Bee Venom Collected in an Apiary in The Central Region of The State of Guanajuato, Mexico, Using an Electric Collector of Bee Venom

Carlos Manuel Bucio Villalobos¹, Oscar Alejandro Martinez Jaime², Fatima Aidee Navarro Lopez²

¹Agronomy School, De La Salle Bajio University, Leon, Gto., Mexico

²Department of Agronomy, Guanajuato University, Irapuato, Gto., Mexico

[Abstract:0168]

Honeybee Gut Microbiota is Altered by Sugar Feed Type and Overwintering

Wang Hongfang, Liu Chunlei, Zhang Weixing, Liu Zhenguo, Xu Baohua

College of Animal Science and Technology, Shandong Agricultural University

[Abstract:0170]

Allelic Diversity of Csd Gene as an Important Criterion of Breeding Quality of Honey Bee

Milyausha D Kaskinova, Nikolenko G. Alexey

Institute of Biochemistry and Genetics, Ufa Research Center, Russian Academy of Sciences, Russia, Ufa

[Abstract:0179]

Drone Rearing Situations Reflect the Subsistence Strategy of Honeybee Population

Zhi Yong Li

Jilin Provincial Key Lab of Bee Genetics and Breeding, Jilin Provincial Institute of Apicultural Research, Jilin, CN

[Abstract:0182]

Distribution and Ecological Characteristics of Cocoons of the Solitary Bees *Osmia cornifrons* and *O. pedicornis* (Hymenoptera: Megachilidae)

Hyung Joo Yoon, Kyeong Yong Lee, Minji Shin, Sun Yeoung Kim

Department of Agricultural Biology, The National Institute of Agricultural Science, RDA, Wanju, Republic of Korea

[Abstract:0183]

Sexual Maturity and Mating Ability of the Bumblebees, *Bombus terrestris*

Hyung Joo Yoon, Kyeong Yong Lee, Minji Shin, Sun Yeoung Kim

Department of Agricultural Biology, The National Institute of Agricultural Science, RDA, Wanju, Republic of Korea

[Abstract:0185]

The Preservation of the Honeybee Gene Pool by Creating New Local Populations

Almaz R. Gataullin, Milyausha D. Kaskinova, Elena S. Saltykova, Alexey G. Nikolenko

Institute of biochemistry and genetics, Ufa, Russia

[Abstract:0189]

The Level of Vitellogenin as a Selective Criterion for the Honey Bee Winter Hardness

Elena S Saltykova, Luisa R Gaifullina, Alexey G Niklenko

The Institute Of Biochemistry And Genetics Ufa Science Center

[Abstract:0217]

Differentiation of Russian Honey Bees Subspecies by DNA Barcoding and Mutagenic PCR-RFLP

Mikhail Yurievich Syromyatnikov¹, Anatoly Vladimirovich Borodachev², Vasily Nikolayevich Popov¹

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²Research Institute of Beekeeping, Rybnoye, Russia

[Abstract:0235]

Spatiotemporal Expression Levels of the Chemosensory Proteins Amel-CSP3 and Amel-CSP4 in Adult *Apis mellifera ligustica* Workers

Tengfei Shi¹, Yufei Wang¹, Lei Qi², Fang Liu², Linsheng Yu²

¹School of Plant Protection, Anhui Agricultural University, Hefei, China

²School of Animal Science and Technology, Anhui Agricultural University, Hefei, China

[Abstract:0244]

The Significance of Preserving Georgian Populations of Mountain Grey Honeybee

Maia Peikrishvili¹, Marine Barvenashvili², Alexander Kordzakhia¹

¹Department of Beekeeping, Khareba LLC, Tbilisi, Georgia

²The Georgian Academy of Agricultural Sciences, Tbilisi, Georgia

[Abstract:0255]

Problem of Honey Bee Taxonomy in Ukraine

Gornich Mykola

Gornich Mykola, Ukrainian Beekeeper Journal, Kyiv, Ukraine

[Abstract:0259]

Evaluation of Royal Jelly Production for Breeding of Honeybee Enhanced Royal Jelly Production

Hye Kyung Kim, Man Young Lee, Myeong Lyeol Lee, Yong Soo Choi, Kyu Ho Byeon, En Jin Kang, Dongwon Kim, Ah Rang Kang

Department of Agricultural Biology, National Institute of Agriculture Sciences, Wanju, Republic of Korea

[Abstract:0273]

Genetic and Phenotypic Correlations Among Queen and Colony Characteristics in *Bombus terrestris*

Ayhan Gosterit¹, Abdullah Nuri Özsoy¹, Sedat Aktan¹, Aşkın Galıç², Fehmi Gürel²

¹Department of Animal Science, Faculty of Agriculture, Süleyman Demirel University, Isparta, Turkey

²Department of Animal Science, Faculty of Agriculture, Akdeniz University, Antalya, Turkey

[Abstract:0355]

Effects of Tongue Lengths of Bumble Bees (*Bombus* sp.) on Plant Preferences

Refika Günalp, Nevin Keskin

Department of Applied Biology, Hacettepe University, Ankara, Turkey

[Abstract:0382]

Biodiversity of Bees in the Jijel Region and Toxicological Impact of Pesticides: Enzymatic Activity of Acetylcholinesterase

Houda Bouzeraa, Mohamed Achou, Nouredine Soltani

Department of Biology, Faculty of Sciences, Laboratory of Applied Animal Biology, Badji-Mokhtar University, Annaba, Algeria

[Abstract:0398]

Effects of Pesticide Perizin on Behavioral and Biochemical Parameters of Three Honeybee (*Apis mellifera* L.) Subspecies Native to Turkey

Okan Can Arslan, Meral Kence²

ODTÜ Biyoloji Bölümü

[Abstract:0413]

Features of Productive Utilization Use of Ukrainian Queen Bees (*Apis mellifera* *Ukrainica* Polishchuk)

Oleksiy Losyev¹, Ivan Voloshchuk²

¹National University of Life and Environmental Sciences of Ukraine

²BEEHIVE LLC., 01054, 65 Honchara str. Kyiv Ukraine

[Abstract:0415]

MicroRNAs were screened to be related to waggle dance behavior in head of *Apis mellifera* L

Songkun Su¹, Li Li², Zhiguo Li¹, Limin Yan², Shaowu Zhang³, Zachary Y. Huang⁴

¹College of Bee Science, Fujian Agriculture and Forestry University

²College of Animal Sciences, Zhejiang University

³Research School of Biology, College of Medicine, Biology and Environment, The Australian National University

⁴Department of Entomology, Michigan State University

[Abstract:0416]

Investigation of Probiotic Properties of *Lactobacillus Plantarum* and *Lactobacillus Fermentum* Isolated from Honeybee

Naser Tajabadi¹, Gholamhosein Tahmasbi¹, Seied Hosein Hoseinian¹, Faegheh Feizabadi², Hamed Rezaei¹, Nader Mashykeh Sardoei¹

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²Department of Food Science and Technology, Science and Research Branch, Islamic Azad University, Tehran, Iran

[Abstract:0422]

Dust Phenomenon and Beekeeping Industry in Iran

Gholamhosein Tahmasbi¹, Mohammad Babaei², Mohamad Bagher Farshineh Adl³, Hosein Mirzaei⁴, Hamid Reza Izadnia⁵, Shabnam Parichehreh⁶

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²Department of Genetic, Animal Science Research of Iran, Agricultural Research Education and Extension Organization, Karaj, Iran

³Department of Honey Bee, Animal Science Research of Iran, Karaj, Iran

⁴Department of Honey Bee, Animal Science Research of Iran, Agricultural Research Education and Extension Organization, Karaj, Iran

⁵Researcher of Safi Abad Research Center for Agriculture and Natural Resources

⁶Department of Honey Bee, Animal Science Research of Iran, Agricultural Research Education and Extension Organization, Karaj, Iran

[Abstract:0428]

Morphological Characterization of the Honey Bee (*Apis mellifera* L.) Populations of Thrace Region, Çanakkale Province and Gökçeada Island

Fulya Özdi¹, Abdurrahman Aydın², Devrim Oskay¹, Ahmet Gürel²

¹Namık Kemal University, Faculty of Agriculture, Department of Agricultural Biotechnology, Tekirdağ, Turkey

²Ondokuz Mayıs University, Faculty of Agriculture, Department of Animal Science, Samsun, Turkey

[Abstract:0429]

Screening Newly GABA-Producing Lactic Acid Bacteria Isolated from Honey

Naser Tajabadi¹, Nazamid Saari², Mohammad Zarei², Raha Abdul Rahim³, Mohd Yazid Abdul Manap², Fatimah Abu Bakar²

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[Abstract:0447]

Beekeeping Activities II: The Evaluation of Beekeeping Activities in terms of Beekeeper Preferences, Production Quality and Bee Diseases in Malatya Province

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[Abstract:0480]

Biodiversity of Native Honeybee, "*Apis Florea*" in District Faisalabad and Chakwal of Punjab, Pakistan

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[Abstract:0483]

Mortality Of Brood Africanized Bees (*Apis mellifera* L.) in the Brazilian Semi-arid Caused by the Low Relative Moisture of the Air

Darcet Costa Souza, Jean Samel Rocha, Tiago Ribeiro De Oliveira

Department of Zootechny, Universidade Federal do Piauí, Teresina-Piauí, Brazil

[Abstract:0485]

Comparative Activity and Productivity of Carniolan (*Apis mellifera carnica* Pollmann) and Yemeni (*Apis mellifera jemenitica* Ruttner) Subspecies Under Al-Ahsa, Eastern Saudi Arabia Environmental Condition

Saad Naser Alkahtani¹, El Kazafy Abdou Taha²

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²Kafrelsheikh Univ., Kafrelsheikh, Egypt

[Abstract:0504]

A Regional Breeding Project for Varroa Resistance

Cecilia Costa, Gabriele Marzi, Patrizia Bergomi, Anna De Rogatis, Emanuele Carpana

Agriculture and Environment Research Centre, Council for Agricultural Research and Economics, Bologna, Italy

[Abstract:0567]

A Study on Geometric Morphometric Analyses of Some *Marchalina hellenica* Populations in Muğla

Rahşan İvgin Tunca¹, Okan Özgül², Özgür Ceylan³, Devrim Oskay⁴, Mustafa Avcı⁵

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⁴Department of Agricultural Biotechnology, Agricultural Faculty, Namık Kemal University, Tekirdağ, Turkey

⁵Department of Forest Engineering, Faculty of Forestry, Süleyman Demirel University, Isparta, Turkey

[Abstract:0614]

Detailed Insight in Honey Bee Wing Flapping Mechanics Using Three-dimensional Fluid-structure Interaction Simulation

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²University of Belgrade - Faculty of Agriculture

[Abstract:0620]

Doolittle Method from Controlled Queen Bee Production Methods

Nazlı Pınar Canverdi, Ümit Kayaboynu, Muzaffer Duman, Nurten Türkarslan, Neslihan Çakıcı

Apiculture Research Institute, Ordu, Türkiye

[Abstract:0630]

Feeding Effect on the Evolution of Honeybees' Swarms

Haifa Boudegga, Hanen Gnichi

High Agronomic Institute of Chott-Meriem (University of Sousse, Tunisia)

[Abstract:0636]

Varying Rates of Dimethyl Sulfoxide (DMSO) Impacts Viability and Motility of the Cryopreserved Honey Bee Semen

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²Department of Entomology, Washington State University, Pullman, WA, USA

[Abstract:0641]

Optimizing Drone Fertility with Spring Nutritional Supplements to Honey Bee (Hymenoptera: Apidae) Colonies

Andree Rousseau¹, Pierre Giovenazzo²

¹Andrée Rousseau

²Pierre Giovenazzo

[Abstract:0646]

Preservation of Domesticated Honey Bee (Hymenoptera: Apidae) Drone Semen

Marilene Paillard¹, Andree Rousseau², Pierre Giovenazzo³, Janice Bailey⁴

¹Marilene Paillard

²Andree Rousseau

³Pierre Giovenazzo

⁴Janice Bailey

[Abstract:0662]

Investigation of Relationships Between Honey Yield and Behavioral Characteristics with Decision Tree Method

Çiğdem Takma¹, Üzeyir Karaca², Banu Yücel¹, Mustafa Kösoğlu², Erkan Topal², Neslihan Özsoy², Miray Dayıoğlu²

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[Abstract:0665]

Queen Productions

Sharon Lally, Hossein Yeganehrad

Caspian Apiaries

[Abstract:0703]

Biological Effects of Hydrophilic and Lipophilic ,Fractions of Pollen Load on the Organism in a case of Induced Stress

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¹Federal State Budgetary Academic Institution "Research Institute of Beekeeping"

²Ryazan State Medical University

[Abstract:0710]

Influence of the Carbohydrate Feed Enriched with a Protein-vitamin Complex Got from the Pollen on Queen Larvae and Royal Jelly Quality

Natalia Grigorevna Bilash, Olga Olgertovna Trotsuk

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[Abstract:0730]

The Behaviour of Honeybee Colonies During Cleaning and Restoring Extracted Honeycombs

H. Vasfi Gençer, Yasin Kahya, Sabri Demir, M. Burak Kızıltepe

Department of Animal Science, Faculty of Agriculture, Ankara University, Ankara, Turkey

[Abstract:0731]

The Analysis of the Honey Extraction of the Harvested Honeycombs

Yasin Kahya, H. Vasfi Gençer, Sabri Demir, M. Burak Kızıltepe

Department of Animal Science, Faculty of Agriculture, Ankara University, Ankara, Turkey

[Abstract:0732]

The Use of Standard and Geometric Morphometry for Discrimination of the Honeybee Queens from Two (*A. m. caucasica* and *A. m. ligustica*) Subspecies

H. Vasfi Gençer, Yasin Kahya, Sabri Demir, M. Burak Kızıltepe

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[Abstract:0736]

Selection Criteria of Climate Change Indicator Species of Insects in Agricultural Environment in Korea

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²National Institute of Agricultural Science, RDA, Korea

³Mokpo National University, Korea

⁴Chungnam National University, Korea

[Abstract:0749]

The Effects of Wintering in Different Climatic Regions of Turkey on Wintering Ability of Caucasian Honey Bee (*Apis mellifera caucasica*) Colonies

Salim Aktürk¹, Yeliz Kasko Arıcı², Gökhan Akdeniz¹, Ahmet Kuvancı¹, Ramazan Kayabaşı¹, Tunay Kılıçın¹, Dilek Kabakçı¹, Hamza Başaran³, Ümit Karataş¹, Şeref Cınbirtoğlu¹, Ergül Sarıkaya¹, Seyit Hasan Öztürk¹

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²Ordu University, Department of Animal Science, Ordu, Turkey

³Alata Horticultural Research Institute, Mersin

[Abstract:0754]

Honey Bee (*Apis mellifera* L.) Instrumental Insemination and Semen Storage

Dilek Kabakçı, Gökhan Akdeniz

Ordu Apiculture Research Institution

[Abstract:0777]

Genome-wide Scans Between Two Honeybee Populations Reveal Putative Signatures of Human-mediated Selection

M. Parejo¹, A. Vignal², D. Wragg³, D. Henriques⁴, M. Neudtschko¹, J. D. Charrière¹

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⁴Mountain Research Centre (CIMO), Polytechnic Institute of Bragança, 5301-855 Bragança, Portugal

[Abstract:0786]

Determining the Differences of Learning Abilities and Behaviors Between the Three Honey Bee Subspecies

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²University of Puerto Rico at Rio Piedras, Biology Department, San Juan, Puerto Rico

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[Abstract:0022]

Molecular Characterization and the Investigation of Important Honey Bee (*Apis mellifera* L.) Viruses in Hakkari Province (Turkey) By Using RT-PCR

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²Inönü University, Faculty of Agriculture, Department of Plant Protection, Malatya, Turkey

[Abstract:0034]

Geographical Distribution and Molecular Detection of *Nosema ceranae* from Indigenous Honey Bees of Saudi Arabia

Mohammad Javed Ansari, Ahmad Alkhazim Al Ghamdi

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[Abstract:0066]

Use of Medicines Has Basic Thymol Against of *Varroa* Mite in Iran

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³Amir Mohammad ELMI Department of Environment Wildlife Bureau Tehran.I.R.Iran

[Abstract:0067]

Honey Bee Gut an Unexpected Niche of Human Pathogens

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³H.E.J. Research Institute of Chemistry; PCMD), ICCBS, University of Karachi, Karachi Pakistan

⁴Department of Zoology University of Peshawar KPK, Pakistan

[Abstract:0068]

Alternative Control of *Varroa* Mites Using Formic Acid and Thymol in Africanized Honeybee Colonies

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Centro de Investigaciones Apícolas Tropicales (CINAT), Universidad Nacional (UNA), Heredia, Costa Rica

[Abstract:0081]

Genetic Characterization of (*Varroa destructor*) (Family: Varroidae) Prevalent in Honeybees (*Apis mellifera*) in the Province of Aydın in Turkey

Adnan Ayan, Osman Selçuk Aldemir

Van Yüzüncü Yıl University Veteriner Fakültesi Genetik Anabilim Dalı, Van, Parazitoloji Anabilim Dalı, Aydın

[Abstract:0083]

Mortality of *Varroa* Mites Using Formic Acid and Thymol in Capped Worker Brood Cells of Africanized Honey Bees

Mariyela Ramirez, Rafael Calderon

Centro de Investigaciones Apícolas Tropicales (CINAT), Universidad Nacional (UNA), Heredia, Costa Rica

[Abstract:0085]

Mineral Metabolism in the Body of Bee and Drone Brood with Varroaosis

Vera Vladimirovna Shishkina, Claudia Alexandrovna Sidorova, Marina Viktorovna Kalashnikova, Susanna Arestovna Pashayan

State Agrarian University of the Northern Trans-Urals

[Abstract:0124]

Infestation of *Varroa underwoodi* (Acari: Varroidae) in *Apis cerana* in Eastern and Northern China

Shuai Wang, Zhenguang Lin, Li Li, Fuliang Hu, Huoqing Zheng
College of Animal Sciences, Zhejiang University, Hangzhou, China

[Abstract:0150]

The Prophylaxis of Major Bacterial Infections in the *Apis mellifera* Carpathica Bee Through Honey, Pollen and Bee Bread Control

Sapcaliu Agripina¹, Savu Vasiliică¹, Rădoi Ion², Dobrea Mini², Milea Florentin Gheorghe², Călin Victor³, Bodescu Dan⁴, Pîrvuleț Cristina Ștefania⁵

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³Spiru Haret University Bucharest

⁴University of Agronomical Sciences and Veterinary Medicine Iasi

⁵Academy of Agricultural and Forestry Sciences "Gheorghe Ionescu-Sisesti"

[Abstract:0152]

In Vitro Testing of the Efficiency of Antibacterial Synergic Combinations of Propolis Tincture and Selected Plant Extracts

Savu Vasiliică¹, Sapcaliu Agripina¹, Rădoi Ion², Negoita Carmen², Tănase Petruț³, Pîrvuleț Cristina Ștefania⁴

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³Spiru Haret University Bucharest

⁴Academy of Agricultural and Forestry Sciences "Gheorghe Ionescu-Sisesti"

[Abstract:0158]

Evaluation Cases of Parasites and Viruses of Honeybees in Marmara Region of Turkey

Taraneh Öncel¹, Ahmet Sait¹, Sezai Arslan², Esma Söylemez¹, Belinda Aydın¹, Ahmet Şimşek¹

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²Faculty of Veterinary Medicine, Namık Kemal University, Tekirdag, Turkey

[Abstract:0161]

Morphological and Quantitative Study in Honeybees Larvae Healthy and Affected by the "River Disease" in Uruguay

Graciela Pedrana¹, Enrique Nogueira², Helen Viotti¹, María Laura Presentado¹, Pablo Juri², Paula Lombide¹, Daniela Arredondo⁵, José Manuel Verdes³,
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⁴Sección Etología, Instituto de Biología, Facultad de Ciencias, Montevideo, Uruguay

⁵Laboratorio de Microbiología, Instituto de Investigaciones Biológicas Clemente Estable, Montevideo, Uruguay

[Abstract:0171]

Chitomilan – Natural Immunomodulator for Honeybees

Alexey G. Nikolenko, Elena S. Saltykova

Scientific-consulting Center "Pchelich", Ufa, Russia

[Abstract:0173]

Immunotropic Effect of Spore-forming Probiotics and Chitosan on Honey Bee

Louisa Rimovna Gaifullina, Elena Stanislavovna Saltykova, Alexey Gennadyevich Nikolenko

Institute of biochemistry and genetics of Ufa scientific center of the Russian Academy of Sciences, Ufa, Russia

[Abstract:0190]

Neonicotinoids are the Threat to Honey Bee Health

Elena S Saltykova, Alexandr V Poskryakov, Luisa R Gaifullina, Alexey G Nikolenko

The Institute Of Biochemistry And Genetics Ufa Science Center

[Abstract:0198]

Sacbrood Virus of *Apis cerana* in Korean Apiaries

Choi Yongsoo, Lee Myeong Lyeol, Lee Man Young, Kim Hye Kyung

Department of Agricultural Biology, National Academy of Agricultural Science, RDA, Wanju 565-851, Republic of Korea

[Abstract:0205]

Investigation of Honey Bee Deaths in Adana Province and Surroundings

Hasan Hüseyin Ünal¹, Taraneh Öncel¹, Bırsel M. Demir¹, Alper Sezgin¹, Ahmet Sait¹, Erol Kabil¹, Mansur Seymen Seymenoğlu²

¹Pendik Veterinary Control Institute, Istanbul, Turkey

²Adana Veterinary Control Institute, Adana, Turkey

[Abstract:0212]

Diagnosis and Prevalence of American Foulbrood Disease (*Paenibacillus larvae* subsp. *larvae*) in Honey Bee Colonies in Algeria

Noureddine Adilane¹, Nizar Haddad²

¹Department of Biology, University of Boumerdes, Algeria

²National Center for Agriculture Research and Extension, Bee Research Unit

[Abstract:0213]

Occurrence of Deformed Wing Virus by PCR in Honey Bees Colonies in Southern Algeria

Noureddine Adilane¹, Nizar Haddad²

¹Department of Biology, University of Boumerdes, Algeria

²National Center for Agriculture Research and Extension, Bee Research Unit

[Abstract:0215]

First Molecular Detection of Lake Sinai Virus alongside with Detection of Sacbrood Virus and Deformed Wing Virus in the Algerian Honeybee: *Apis mellifera intermissa*

Hichem Ahmed Menail¹, Niels Piot², Ivan Meeus², Guy Smagghe², Wahida Ayad Loucif¹

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[Abstract:0224]

Analysis of Israeli, Turkish, Cyprian, Tanzanian and New Zealand (Manuka) Honeys for Pyrrolizidine Alkaloids

Shimon Barel¹, Jakob Avi Shimshoni¹, Haim Kalev², Stephen E. Msemu³, A. Onur Girisgin⁴, Levent Aydın⁴, Arne Dübbecke⁵, Patrick P.J. Mulder⁶

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⁶RIKILT-Wageningen University & Research, PO Box 230, 6700 AE Wageningen, the Netherlands

[Abstract:0230]

Changes in Expression of Cu, Zn Superoxide Dismutase (SOD1) in *Aphis mellifera* Larvae in Response to Temperature Stress

Eun Jin Kang, Myeong Lyeol Lee, Man Young Lee, Yong Soo Choi, Hye Kyung Kim, Dong Wo Kim

Department of Agricultural Biology, National Institute of Agricultural Sciences, R.D.A., Rep. of Korea

[Abstract:0231]

Impact of two Acaricides Fluvalinate and Oxalic Acid on the Acetylcholinesterase and Glutathione S-Transferase Activities in *Apis mellifera intermissa* (Hymenoptera, Apidae)

Asma Rouibi¹, Wided Fella Bouchema², Wahida Loucif Ayad², Mohamed Achou², Noureddine Soltani²

¹Departement of Biology, Chadli Ben Djedid University, El-Tarf, Algeria

²Laboratory of Applied Animal Biology, Department of Biology, Badji Mokhtar University, Annaba, Algeria

[Abstract:0233]

Sublethal Effects of the Neonicotinoid Insecticide Thiamethoxam on the Transcriptome of the Honey Bees, *Apis mellifera* (Hymenoptera, Apidae)

Tengfei Shi¹, Yufei Wang¹, Lei Qi², Fang Liu², Linsheng Yu²

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²School of Animal Science and Technology, Anhui Agricultural University, Hefei, China

[Abstract:0234]

Enhanced of the CBPV Level in Honeybee Exposed Chronically to Environmental Imidacloprid

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[Abstract:0242]

First Detection of *Nosema ceranae* in Honey Bee Colonies in Georgia

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[Abstract:0256]

Methods of Protecting Honeycombs Against Wax Moth

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Ltd "Demetra" Beekeepers-researchers group

[Abstract:0258]

Development of Detection Method Using Ultra-rapid PCR and DNA-chip Against 11 Major Pathogens in Honeybee

Byoung Su Yoon, Chil Woo Lee, Su Jin Lim, Jung Min Kim, Tai A Truong

Department of Life Science, Kyonggi University, Suwon, Korea

[Abstract:0260]

Evaluation of Honeybee Losses in Terms of Diseases in Turkey

Ahmet Onur Girişgin, Mehmet Özüüçli, Levent Aydın

Department of Parasitology, Veterinary Faculty, Uludag University, Bursa, Turkey

[Abstract:0271]

Honeybee Health Status in Algeria

Wahida Loucif Ayad¹, Ahmed Hichem Menail², Nizar Haddad³, Nouredine Adjlane⁴, Niels Piot⁵, Ivan Meeus⁵, Guy Smagghe⁵

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⁵e Laboratory of Agrozoology, Department of Crop Protection, Faculty of Bioscience Engineering, Ghent University, Ghent, Belgium.

[Abstract:0300]

A Forensic Case: The Role of Hive Robbery in Disease Dissemination

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[Abstract:0310]

Stress Responses of Honey Bees to Organic Acid and Essential Oil Treatments Against Varroa Mites

Nazmiye Güneş¹, Levent Aydın², Deniz Belenli¹, John M. Hranitz³, Sami Mengilig⁴, Semih Selova⁴

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³Department of Biological and Allied Health Sciences, Bloomsburg University, Bloomsburg, PA, USA

⁴Faculty of Agriculture, 18 Mart University, Canakkale, Turkey

[Abstract:0351]

Aspects of Pollen Sources Used in Supplementary Feeds and the Presence of Etiological Agents of Mycosis and Nosemosis

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²Beekeeping Research and Development Institute of Bucharest, Romania

[Abstract:0379]

Effects on Biochemical Biomarkers of Honeybees (*Apis mellifera intermissa*) After Exposure to Titanium Dioxide

Naziha Bouhafs Bourenane, Ayad Loucif Wahida, Bensoltane Djekoune Samira
Faculty of Medicine, University Badji Mokhtar, 23000, Annaba, Algeria

[Abstract:0401]

Differential Responses of Honey Bee Subspecies to *Nosema ceranae* Infection

Cansu Özge Tozkar¹, Jay Evans²

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²USDA-ARS Bee Research Laboratory, Beltsville, Maryland, USA

[Abstract:0425]

Histochemical Observations of Nosemosis in Honey Bee Midgut

Ahmet Ceylan¹, Özge Özgenç¹, Füsün Erhan¹, Sedat Sevin², Ender Yarsan²

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²Ankara University, Faculty of Veterinary Medicine, Department of Pharmacology and Toxicology

[Abstract:0441]

Molecular survey of *Paenibacillus* Larvae the Causative Agent of American Foulbrood in China

Mogbel Ahmed Abdalla El Niweiri¹, Hou Chunsheng², Deng Shuai², Qin Yunchuan², Diao Qingyun²

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²Institute of Apicultural Research, Chinese Academy of Agricultural Sciences, Beijing, P.R. China

[Abstract:0450]

Antimicrobial Activity of Lebanese Propolis Ethanolic Extracts Against *P. Larvae* and AFB Control

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²Faculty of Pharmacy, Lebanese University, Hadath - Beirut, Lebanon

³Faculty of Agriculture, Department of Plant Production, Lebanese University, Dekwaneh, Lebanon

[Abstract:0464]

The Effect of Imidacloprid on the Length of Life of Honeybee Larva

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[Abstract:0468]

Does Imidacloprid Prevent the Honey Bees from Getting Direction?

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[Abstract:0489]

Multi-stakeholder Platforms for Promoting the Apiculture Sector in Africa: Continental and Country Experiences and Learning

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African Union - Inter-African Bureau for Animal Resources

[Abstract:0491]

Investigation and Identification of Eformed Wing Virus (DWV) in Diseased Apiaries in Iran by RT-PCR

Mojtaba Moharrami, Hossein Modirrousta

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[Abstract:0497]

Investigation and Identification of Kashmir Bee Virus (KBV) in Diseased Apiaries in Iran by RT-PCR

Hossein Modirrousta, Mojtaba Moharrami

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[Abstract:0514]

Sensitivity of *Nosema ceranae* Spores to Organic Acids

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²Veterinary research institute, Hudcova 70, 621 00 Brno, Czech Republic

[Abstract:0547]

Investigation of the Level of Contamination in the Colonies Completing of the Varroa Struggle in the Eastern Black Sea Region

Seyit Hasan Öztürk, Fatih Yılmaz, Ahmet Kuvancı, Mücahit Buldag

Apiculture Research Institute, Department Bee Health, Ordu, Turkey

[Abstract:0559]

Epormenis cestri (Hemiptera, Flatidae) Secretions in Sebastiania Schottiana Trees Cause Mass Death of Honeybees Larvae in Uruguay

Enrique Nogueira¹, Pablo Juri¹, Estela Santos², Daniela Arredondo³, Belén Branchiccela³, Yamandú Mendoza⁴, Karina Antúnez³, Ciro Invernizzi²

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²Sección Etología, Instituto de Biología, Facultad de Ciencias, Montevideo, Uruguay

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⁴Laboratorio de Apicultura, Instituto de Investigación Agropecuaria, Colonia, Uruguay

[Abstract:0585]

Polyvar® Yellow (flumethrin 275 mg bee-hive strips) for the Treatment of Varroosis in Honey Bees Caused by Flumethrin-sensitive Varroa destructor Mites – field Evaluations

Klemens J Krieger, Gertraut Altreuther

Bayer Animal Health

[Abstract:0593]

Pathways of Dispersion of RNA Viruses that Affect Honey Bees

Francisco José Reynaldi¹, Guillermo Hernan Sguazza², María Laura Genchi García³, Mariano Lucia⁴,

María Emilia Bravi¹, Marcelo Ricardo Pecoraro², Cecilia Mónica Galosi³

¹CCT-Conicet La Plata; Laboratory of Virology (LAVIR), Faculty of Veterinary Sciences, UNLP;

²Laboratory of Virology (LAVIR), Faculty of Veterinary Sciences, UNLP;

³Scientific Research Commission of Buenos Aires Province; Laboratory of Virology (LAVIR), Faculty of Veterinary Sciences, UNLP;

⁴CCT-Conicet La Plata; División Entomología, Museo de La Plata, Universidad Nacional de La Plata, Edificio Anexo Museo, Unidades de Investigación FCNyM, 122 y 60

[Abstract:0594]

Polyvar Yellow® (flumethrin 275 mg bee-hive strips) for the Treatment of Varroosis in Honey bees Caused by Flumethrin-Sensitive Varroa destructor Mites – General Evaluations

Gertraut Altreuther, Klemens Krieger

Bayer Animal Health GmbH, Leverkusen, Germany

[Abstract:0608]

Sterilization with Gamma Irradiation and Dry-hot Air of Spores of Paenibacillus Larvae in Wax

Şengül Alpay Karaoğlu¹, Arif Bozdeveci¹, Sevgi Kolaylı², Oktay Yıldız³, Hacer Selçuk⁴, Rahşan Akpınar⁵

¹Recep Tayyip Erdogan University, Faculty of Sciences and Arts, Departement of Biology, Rize, Turkey

²Karadeniz Technical University, Faculty of Sciences, Department of Chemistry, Trabzon, Turkey

³Karadeniz Technical University, Mağka Vocational High School, Food Technology, Trabzon, Turkey

⁴Usta beekeeping, Yıldırım, Bursa, Turkey

⁵Samsun Veterinary Control Institute, Ministry of Food, Agriculture and Livestock, Samsun

[Abstract:0609]

Effects of "in vitro" Exposure of Pesticides on Honey Bee Drone's Semen Quality

Faten Ben Abdelkader¹, Luc Belzunces², Naima Barbouche¹, Jean Luc Brunet²

¹Laboratoire de zoologie et d'Apiculture Institut National Agronomique de Tunisie, Tunisie

²UR 406 Abeilles et Environnement, INRA Avignon, France

[Abstract:0618]

Effects of Sublethal Exposure to Imidacloprid, and "Nosema ceranae" Infection on Survival and on Individual Immunity in Honey Bees ("Apis mellifera")

Fabian Zuñiga¹, Edwar Fuentes², Jessica Martínez¹

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²Departamento de Química Orgánica y Analítica, Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile.

[Abstract:0631]

Behavioural Resistance of Bees is Related to Tolerance to Varroa destructor and DWV Infection Level in Uruguay

Yamandú Mendoza¹, Ivanna Tomasco², Sebastián Díaz Cetti¹, Gustavo Ramallo¹, Cecilia Chambón¹, Carlos Silva¹, Karina Antúnez³, Belén Branchiccela³, Ciro Invernizzi²

¹National Institute of Agricultural Research

²Facultad de Ciencias- UDELAR

³Instituto de Investigaciones Biológicas Clemente Estable - IIBCE

[Abstract:0634]

The role of Phoridae Species in Honey Bee Health

Wahida Loucif Ayad¹, Moreno Dutto², Ahmed Hichem Menail³, Niels Piot⁴, Ivan Meeus⁴, Guy Smagghe⁴, Monica Vercelli⁵, Paola Ferrazzi⁵

¹Faculty of Medicine, Badji Mokhtar University, Annaba, Algeria

²Former entomology consultant of ASL Cuneo 1

³Laboratory of Applied Animal Biology, Faculty of Science, Badji Mokhtar University, Annaba, Algeria

⁴Laboratory of Agrozoology, Department of Crop Protection, Faculty of Bioscience Engineering, Ghent University, Ghent, Belgium

⁵DISAFA, University of Turin, Largo P. Braccini, 2 10095 Grugliasco (Torino), Italy

[Abstract:0650]

Preclinic Indicators at the Apiary Level to Prevent Honeybee Diseases

Jorge Rivera-Gomis¹, Antonella Cersini¹, Magali Chabert², Marie-Pierre Chauzat², Roberto Eggenhoeffner³, Serkan Erat⁴, Ales Gregorc⁵, Walter Haefeker⁶, Mariano Higes⁷, Riccardo Jannoni-Sebastianini⁸, Charlotte Liettaer⁸, Philip McCabe⁶, Rudolf Moosbeckhofer⁹, Dilek Muz⁴, Mustafa Necati Muz⁴, Nurullah Ozdemir⁴, Marco Pietropaoli¹, Licia Ravarotto¹⁰, Alexandra Ribarits⁹, Marie-Pierre Riviere², Maja Ivana Smodis Skerl¹¹, Giovanni Formato¹

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³University of Genova, Biophysic Section of Department of Surgery Sciences and Integrated Diagnostics (DISC), Corso Europa 30, 16132 Genova, Italy

⁴University of Namik Kemal, Kampus Street, 59030 Tekirdag, Turkey

⁵Mississippi State University, Center for Costal Horticulture Research, PO box 193, 39470 Poplarville, MS, USA

⁶International Federation of Beekeepers' Associations, Corso Vittorio Emanuele 101, I-00186 Roma, Italy

⁷Centro de Investigacion Apicola y Agroambiental de Marchamalo, C/Camino San Martin s/n, 19180 Marchamalo, Spain

⁸Tecnologies and practices for small agricultural producers (TECA) platform of the Food and Agriculture Organization of the United Nations (FAO), Viale delle Terme di Caracalla, 00153 Rome, Italy

⁹Austrian Agency for Health and Food Safety, Spargelfeldstrasse 191, 1220 Vienna, Austria

¹⁰Istituto Zooprofilattico Sperimentale delle Venezie, Viale dell'Università 10, 35020 Legnaro (Padova), Italy

¹¹Agricultural Institute of Slovenia, Hacquetova ulica 17, 1000 Ljubljana, Slovenia

[Abstract:0664]

Risk Factors Associated with the Occurrence of Nosemosis (Nosema spp.) in the South of Buenos Aires, Argentina

Adriana Pacini¹, Paola Andrea Crisanti³, Barbara Angeletti⁴, Gonzalo Ismael Parra Gonzalez³, Silvia Gugliardo⁴, Natalia Veronica Bulacio Cagnolo², Agustina Giacobino¹, Ana Ines Molineri¹, Enrique Luciano Bedascarrasbure⁵, Emilio Eduardo Figini⁶, María Alejandra Palacio⁷, Graciela Adriana Rodriguez²

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³Instituto Nacional de Tecnología Agropecuaria H. Aacasubi. Buenos Aires, Argentina

⁴Universidad Nacional del Sur, Bahía Blanca, Buenos Aires, Argentina

⁵Instituto Nacional de Tecnología Agropecuaria, Instituto de Ingeniería Rural, Hurlingham, Buenos Aires, Argentina

⁶Instituto Nacional de Tecnología Agropecuaria Balcare, Buenos Aires, Argentina.

⁷Instituto Nacional de Tecnología Agropecuaria Tandil, Buenos Aires, Argentina.

[Abstract:0673]

Histological Changes in Honey Bees (Apis mellifera intermissa) Midgut After Exposure to Titanium Dioxide TiO2

Naziha Bouhafs Bourenane, Ayad Loucif Wahida, Bensoltane Djekoune Samira

Faculty of Medicine, University Badji Mokhtar, 23000, Annaba, Algeria

[Abstract:0674]

Comparison of the Effectiveness and Sensitivity of the Sugar Shake Method to Detect Phoretic Varroa Mites (*Varroa destructor*) Versus the Goal Standard Method of Soapy Water Washing

Rodrigo Díaz¹, Naomi Durán², Patricia Henríquez², Patricia Aldea²

¹Escuela de Medicina Veterinaria, Universidad Mayor, Santiago, Chile

²Ceapimayor, Universidad Mayor, Santiago, Chile

[Abstract:0675]

Effectiveness of Oxalic Acid Trickling Treatment For Varroa Mite (*Varroa destructor*) Using Seasonal Brood Interruption By Caging of the Honeybee Queen (*Apis mellifera*) in the Central Zone Of Chile

Patricia Henríquez, Naomi Durán, Patricia Aldea

Ceapimayor, Universidad Mayor, Santiago, Chile

[Abstract:0677]

Natural Varroa Tolerance in Honeybee Stocks from a Temperate Region of Argentina

Julietta Merke¹, Joaquín Parra González², Silvia Beatriz Lanzavecchia³, Enrique Schmit², Analía Martínez⁴, Paola Andrea Crisanti²,

Enrique Luciano Bedascarrasbure⁵, Emilio Eduardo Figini⁶, María Alejandra Palacio⁴, Graciela Adriana Rodríguez²

¹National Institute of Agricultural Technology, Rafaela, Argentina

²National Institute of Agricultural Technology, Hilario Ascasubi, Argentina

³National Institute of Agricultural Technology, Genetics Institute, Castelar, Argentina

⁴National Institute of Agricultural Technology, Balcarce, Argentina

⁵National Institute of Agricultural Technology, Rural Engineering, Castelar, Argentina

⁶National Institute of Agricultural Technology, Tandil, Argentina

[Abstract:0681]

Optimization of HopGuard Application to Control Varroa Mites in Honey Bees

Medhat Nasr, Samantha Muirhead

Pest Surveillance Section, Crop Research and Extension, Alberta Agriculture and Forestry, Edmonton, Alberta Canada

[Abstract:0682]

The Influence of Deformed Wing Virus (DVW) on Honey Bee Larvae

Po Ya Hsu, Yue Wen Chen, Yu Shin Nai

Department of Biotechnology and Animal Science, National Ilan University, Yi-Lan, Taiwan, R.O.C.

[Abstract:0685]

From Hives to Table; Determination of Parasitologic, Microbiologic and Virologic Factors that Threat Honey, Honey Bee and Public Health

Hayrettin Akkaya¹, Emek Dümen², Sevgi Ergin³, Gülay Merve Bayrakal², Funda Hatice Sezgin⁴

¹Istanbul University, School of Veterinary Medicine, Department of Parasitology

²Istanbul University, School of Veterinary Medicine, Department of Food Hygiene & Technology

³Istanbul University, Cerrahpaşa School of Medicine, Department of Clinical Microbiology

⁴Istanbul University, School of Engineering, Department of Industrial Engineering

[Abstract:0697]

Lippia Alba Essential Oil as Potential Control Agents of Chalkbrood

Graciela Noemí Albo¹, Rodrigo Altamirano², Francisco José Reynaldi³, Susana Beatriz Córdoba⁴

¹Curso de Producción Animal I. Facultad de Ciencias Agrarias y Forestales. Universidad Nacional de La Plata. 60 y 119, La Plata, 1900, Bs. As. Argentina. Phone/Fax: 0054-221423-6758.

²Curso de Cálculo Estadístico y Biometría. FCAyF. UNLP

³CONICET CCT La Plata –. Avenida Rivadavia 1917, Bs As - Argentina

⁴Departamento Micología. Instituto Nacional de Enfermedades Infecciosas. “Dr. C. Malbrán”. Av. Vélez Sarsfield 563. CABA. 1281. Phone/Fax: 0054-11-4302-5066

[Abstract:0705]

Sensitivity of Bees "*Apis mellifera*" *Adansonii* to a Fungicide Commonly Used in Benin

Zoclanclounon Déo Gracias¹, Paraiso Armand¹, Paraiso Grégoire², Akogbeto Franck², Quenum Gwaldys¹

¹Laboratory of Bees Pathology, Parasitology and Plant Protection, University of Parakou, Benin

²Ecole Doctorale des Sciences Agronomiques et de l'Eau. Université de Parakou, Bénin

[Abstract:0706]

Parasites and Predators of Honey Bees "*Apis mellifera*" *Adansonii* in Benin

Paraiso Grégoire, [Paraiso Armand](#), Tamou Tabe Sarah

Laboratory of Bees Pathology, Parasitology and Plant Protection, University of Parakou, Benin; Ecole Doctorale des Sciences Agronomiques et de l'Eau.
Université de Parakou, Bénin

[Abstract:0723]

Bees' Needs and Functions for Nutrition

[Linyu Tang](#)

Tang Apiculture Research Institute

[Abstract:0762]

Traditional Methods of Comat with *Vespa* Spp (Hymenoptera, Vespidae) in Turkey

[Nuray Şahinler](#), Mahmut İslamoğlu²

Usak University, Faculty of Agriculture and Natural Sciences

[Abstract:0770]

Construction and Design of Avrin Oxalic Acid Aerator

[Javad Asgharpour](#)

Iran.East Azerbaijan-Tabriz-Fadak intersection-Asgharpour Honey

[Abstract:0780]

Prevention Strategy Against *Aethina Tumida* Murray in the Province of Chaco – Argentina

[P. A. Chipulina](#)¹, A. R. Lorenzo², N. Bulacio², G. Schaab⁴, E. E. Figini², Flavia Vazquez³

¹Tec. Producción Apícola –PROAPI

²Fac. de Cs. Veterinarias (UNCPBA) -Tandil-Argentina-PROAPI

³Ministerio de Agro Industria de la Nación

⁴Área Apícola - PRODERI - Ministerio de Producción – Chaco - Argentina

⁵EEA-INTA BALCARCE-Buenos Aires-Argentina-PROAPI

⁶EEA-INTA Rafaela-Santa Fe-Argentina-PROAPI

⁷Agencia de Cooperación Estratégica Rural para el Gran Chaco Americano (ACERCA)

⁸Agencia de Cooperacion Estrategica Rural para el Gran Chaco Americano



THERE ARE THOSE OF US WHO LIKE TO VENTURE

TO THE UNEXPLORED.

TO SEE THE BEAUTY

IN THE STRANGE AND UNKNOWN.

THOSE OF US WHO GO OUT THERE WITH A SENSE OF

WONDER.

BRIDGING WORLDS,

CULTIVATING OUR CURIOSITY

AND FINDING DELIGHT IN OUR DIFFERENCES.

IF YOU'RE ONE OF US,

AND YOU WANT TO EXPLORE MORE OF THIS GREAT PLANET,

WE'RE READY TO TAKE YOU THERE.

IT'S TIME.

W I D E N Y O U R
W O R L D

BEEKEEPING ECONOMY

[Abstract:0017]

Challenge and Opportunity of Honey and Bees-Wax Processing Industry in Ethiopia

Hana Tadesse Kebede

Hana tadesse

[Abstract:0025]

Other Bee Products and Technologies for Investment in Ethiopia: Underutilized Opportunities for Development

Tekeba Eshetie Nega

Ethiopian Meat and Dairy Industry Development Institute

[Abstract:0194]

Evaluation of the Economical Aspects of Iranian Beekeeping

Maghsoud Besharati, Sajjad Ghanbari

Department of Animal Science, Ahar Faculty of Agriculture and Natural Resources, University of Tabriz, Tabriz, Iran

[Abstract:0263]

The Contribution of Bees on Turkey Economy

Yasemin Güler, Belma Özeran

Plant Protection Central Research Institute, Ankara, Turkey

[Abstract:0265]

A New Approach to the Development of Beekeeping in Russia

Ruslan Baskunov¹, Yury Anopchenko², Alexey Nikolenko³

¹Regional Public Organization "Beekeepers of Bashkortostan", Ufa, Russia

²Group of companies "The Family Bee Farm of Anopchenko", Bashkortostan, Russia

³Institute of biochemistry and genetics USC RAS, Ufa, Russia

[Abstract:0277]

Financing (promotion, Fee, Productivity and Added Value)

Kodjo Logou Agossou

Organisation pour la promotion des arts apicole et sylvicole (opaas)

[Abstract:0335]

Presenting Practical Work with Children in Slovenian Beekeeping Circles

Lidija Senič, Marko Borko

Slovenian Beekeepers' Association, Beekeepers' Advisory Service, Lukovica, Slovenia

[Abstract:0412]

Becoming a Beekeeper, How Smooth is the Road?

Stuart Anderson

Beeinventive

[Abstract:0448]

The Importance Beekeeping and Honey Production for Bingol and the Regional Economy

Bilal Bagis, Zeki Akbakay

Department of Economics, Bingol University, Bingol, Turkey

[Abstract:0510]

Estimation of the Factors Affecting Profitability of Beekeeping Enterprises with Path Analysis Approach

Ufuk Kaya¹, Pınar Ambarcıoğlu¹, Mustafa Bahadır Çevrimli², İsmayil Safa Gürcan¹

¹Department of Biostatistics, Ankara University, Ankara, Turkey

²Department of Livestock Economics and Management, Selcuk University, Konya, Turkey

[Abstract:0513]

Production and Market Analysis of Honey and Other Honey Bee Products in the Republic of Macedonia

Hrisula Kiprijanovska, Miroljub Golubovski, Miroslav Trajkovski

Faculty of Agricultural Sciences and Food, Skopje

[Abstract:0560]

GI Honey - The Sweet Taste of Geography

Aske Skovmand Bosselmann¹, Lise Hansted²

¹Department of Food & Resource Economics, University of Copenhagen, Copenhagen, Denmark

²Danish Beekeepers Association, Denmark

[Abstract:0580]

Sentinel Hives - Know When to Move your Bees!

Huw Evans¹, Scott Crisp²

¹arnia Ltd

²Ambrosia Park Ltd

[Abstract:0639]

Does propolis production in Turkey meet the consumer demand?

Nesrin Ecem Bayram¹, Sinan Bayram², Mustafa Onur Yüzer¹, Ümit Gırgel¹

¹Department of Food Processing, Aydıntepe Vocational School, Bayburt University, Bayburt, Turkey.

²Department of Preparations for Health Services, Vocational School Of Health Services, Bayburt University, Bayburt, Turkey.

[Abstract:0701]

Beekeeping of Russia

Liliia Aleksandrovna Burmistrova, Larisa Vsevolodovna Prokofyeva, Yuri Victorovich Dokukin, Vyacheslav Ivanovich Lebedev

Federal State Budgetary Academic Institution "Research Institute of Beekeeping"

[Abstract:0742]

Apicultural Statistics Yearbook of China (2016)

Lihong Chen¹, Ming Xu², Jie Wu², Jiangmei Wang¹, Xueju Liu¹

¹Apicultural Science Association of China (ASAC)

²Institute Of Apicultural Research Of CAAS (IRA)

³Chinese Academy of Agricultural Sciences (CAAS)

[Abstract:0755]

Premium Pricing for Honey Bee Disease Insurance

Jomar F Rabajante, Romell A Dumilag

Institute of Mathematical Sciences and Physics, University of the Philippines Los Baños

BEEKEEPING FOR RURAL DEVELOPMENT

[Abstract:0053]

Introducing Kenya Top-Bar Beehives for Income Generation among Beekeepers in Kaltungo Local Government Area, Gombe State, Nigeria

Florence Andrew, [Muhammad R Jaafar Furo](#)

Department of Agricultural Economics and Extension, Faculty of Agriculture, Adamawa State University, Mubi, Nigeria.

[Abstract:0095]

Improving Small-scale Timber Quality and Production Yields Through Honey Production as an Alternate Cashflow Source

[Guy Stubbs](#)

African Honey Bee

[Abstract:0107]

How beekeeping in Arasbaran Forests Helps to Develop the Forest Villages?

Sajad Ghanbari¹, [Maghsoud Besharati](#)²

¹Department of Forestry, Ahar Faculty of Agriculture and Natural Resources, University of Tabriz, Tabriz, Iran

²Department of Animal Science, Ahar Faculty of Agriculture and Natural Resources, University of Tabriz, Ahar, Iran

[Abstract:0274]

Pests of the African Honey Bee *Apis mellifera scutellata* lepeletier in Zimbabwe and Namibia

[Rudo Sithole](#)

Department of Biological Sciences, University of Zimbabwe, Harare, Zimbabwe

[Abstract:0286]

Using Bio-mass and Bio-gas Technology Energy System in Rural Farm Settlement Areas to Protect Local Bees

[Fatai Hamzat Adeshina](#)

A and shine international limited, abuja nigeria

[Abstract:0371]

Development of a Methodology for Assessing the Sustainability of Lavallega Beekeepers

[Rosana Yacqueline Diaz](#)

Department of Pp, FCA-UDE University, Montevideo, Uruguay.

[Abstract:0399]

Consumers of Honey in Morocco: Motives, Attitudes and Purchasing habits

[Khaoula Bendahbia](#)¹, Abderazzak Khadmaoui¹, Chaouki Al Faiz², Mounira Lage², El Haj El Maadoudi², Aouatif Benali², Zakaria Abidli¹, Abdelmajid Soulaymani¹

¹Laboratory of Genetics and Biometrics, Kenitra Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco

²National Institute For Agricultural Research, Rabat, Morocco

[Abstract:0411]

The Beekeeping and the Associativity, Like a Strategy for the Rural Development of Colombia

[Ramon Galvis](#)

Asociación de apicultores y criadores de abejas de Boyacá ASOAPIBOY

[Abstract:0453]

Lessons from the Field: Building from Field Experience to Improve Support for Beekeeping in Kenya and Uganda

[Thomas Carroll](#), Christopher Davey, Fredrick Otieno Odera

African Beekeeping Resource Centre

[Abstract:0476]

A New Employment for the Women from Ordu; the Training on the Production of Royal Jelly

Ümit Karataş, Nazlı Pinar Canverdi

Apiculture Research Institute, Department of Breeding Technique, Ordu, Turkey

[Abstract:0515]

Traditional Forestry and Beekeeping in Balkan History: Modern and Historical Roles of Landscape Architecture, Bee Boles and Skeps

Megan Colleen Mcshane, Marshall Sherman Nathanson

Florida Gulf Coast University

[Abstract:0531]

Beekeeping through a Social Business Modal

Brian Niwagaba Mugisha

Golden Bees Ltd

[Abstract:0584]

Integrating Beekeeping into Conservation Activities and Projects; a case study of Beekeeping Enterprise in Jos Wild Life Park, Plateau State, Nigeria

Columba Titus Vakuru¹, David Bonat Musa²

¹Federal Ministry of Agriculture & Rural Development

²Plateau State Tourism Corporation/Apis Interactive Network Limited

[Abstract:0627]

Climate Change Effects on Granulation of Honey as it Affects its Marketability: a case study at Ile-Ife, Osun State, Nigeria

Akande Ayoade Alabi, Idowu Ademola Atoloye

Jorafarm and Associates, Ile-Ife, Osun State, Nigeria

[Abstract:0656]

Kakpakov Vitaliy Tuyakovich - Scientist and Beekeeper from the Altai Mountains

Ayana Yurevna Kurmanova, Zifa Nizamovna Saifutdinova

Laboratory of Cellular Biotechnology and Nutrient Media with a Specialized Collection of Cell Cultures of Agricultural Animals,

Kovalenko State Research Institute of Experimental Veterinary (VIEV), Moscow, Russia

[Abstract:0667]

Reducing the cost of beehive construction and improving their efficiency through knock- down metal beehive framework systems

Abraham Addo Ansah Allotey

FORESTRY COMMISSION / ALLOTEY HONEY BEE FARMS

[Abstract:0668]

Establishing Honey Forests and Beekeeping

Tayyibe Altunel¹, Arif Oğuz Altunel², Pakize Torun²

¹Kastamonu University, Department of Forestry Economics, Kastamonu, Turkey

²Kastamonu University, Department of Forest Construction, Geodesy and Photogrammetry, Kastamonu, Turkey

[Abstract:0671]

Tree Bracket Fixing Beehive(s) on or Between the Three Trunks – The Case of Tree Bracket

Abraham Addo Ansah Allotey

Abraham addo- ansah allotey

[Abstract:0707]

Perception and Coping Strategies of Beekeepers to the Effects of Climate Change in DJIDJA and ZOGBODOMEY South of Benin (West Africa)

Paraiso Grégoire¹, Paraiso Armand², Adjoha Bienvenu¹, Denadou Rivalande², Akogbeto Franck¹

¹Laboratoire de Protection des Végétaux, De Pathologie et de Parasitologie Des Abeilles (LAPPAB), Parakou, République du Bénin

²Ecole Doctorale des Sciences Agronomiques et de l'Eau. Université de Parakou, Bénin

[Abstract:0722]

Beekeeping in Jordan, problems and prospects

Mohammad Alrababah, Mohammad Alhamad, Ahmad Bdour

Jordan University of Science and Technology

[Abstract:0779]

A Case Study on Honey Plant Species Selection and Bee Hive Location for Multi-functional Apicultural Forest

Dongyun Kang, Joosang Chung

Seoul National University, Department: Department of Forest sciences

Perfect blend of
pine honey and
healing herbs



Boosts
your energy



Sharpens
your mind



Strengthens
your immune
system




APITERA
Food supplement with honey

BEEKEEPING TECHNOLOGY AND QUALITY

[Abstract:0037]

The Characterization of Blossom Honey from Two Provinces of Pakistan

Mohammad Javed Ansari, Ahmad Alkhazim Al Ghamdi, [Khalid Ali Khan](#)

Bee Research Chair, Department of Plant Protection, College of Food and Agriculture Sciences, King Saud University, Riyadh 11451, PO Box 2460, Kingdom of Saudi Arabia

[Abstract:0061]

Characterization of wild Bush (*Plectranthus rugosus*) Honey Produced in Kashmir Valley Based on Physicochemical Parameters, Antioxidant Properties and Volatile Compounds

[Vikas Nanda](#)¹, Jagtar Singh Klair², Gulzar Ahmad Nayik¹

¹Department of Food Engg. and Tech, Sant Longowal Institute of Engg. and Tech., Longowal-148106, Distt. Sangrur, INDIA

²Member, National Bee Board, India

[Abstract:0070]

Suitability of Heat Treated Wood as Raw Material for Beehive

[Bilgin İçel](#), Mustafa Yalçınkaya, Yasemin Şimşek

Süleyman Demirel University

[Abstract:0071]

Physicochemical Characterization and Biological Activity of a Propolis from San Mateo, Boyacá, Colombia

Juan Camilo Marin Loaiza¹, Erika Andrea Plazas Gonzalez², Diego Felipe Vásquez Castaño¹, [Daniel Sebastian Galvis Montes](#)¹

¹Department of Pharmacy, Faculty of Sciences, Universidad Nacional de Colombia-Bogotá, Colombia

²Department of Chemistry, Faculty of Sciences, Universidad Nacional de Colombia-Bogotá, Colombia

[Abstract:0072]

Monitoring Colony Activity with Temperature Sensors: a Research Agenda

[Franklyn Linton](#)

Retired

[Abstract:0089]

Heavy Metal Contents in Thai Honey

Chuleeporn Saksangawong¹, Anothai Trevanich², Bundit Tengjaroenku³

¹Department of Veterinary Public Health, Faculty of Veterinary Medicine, Khon Kaen University, Khon Kaen 40002, Thailand

²Department of Statistic, Faculty of Science, Khon Kaen University, Khon Kaen 40002, Thailand

³Department of Veterinary Clinical Medicine, Faculty of Veterinary Medicine, Khon Kaen University, Khon Kaen 40002, Thailand

[Abstract:0100]

Indian Thyme (Ajwain) Honey – A New Blossom Amber Honey from India

[Shri Gopal Agarwal](#)

Shakti Apifoods Private Limited, Malerkotla, India

[Abstract:0106]

Palynological and Physicochemical Composition of Algerian Honey

[Boughediri Larbi](#), Zerrouk Salim

Laboratory research in plant biology and environmental, Department of Biology, Faculty of Sciences, University Badji Mokhtar-Annaba, Algeria

[Abstract:0117]

Good Management Practices to Keep the Queen Bee at the Brood Chamber without Using Queen Excluder in Honeybee (*Apis mellifera* adansonii) Field Management

[Akpoke Chiegele Christian](#)¹, Iyaka Anyigor Samuel², Fausta Ify Ogbuefi Chima³, Theresa Ebia Omara Achong³, Ani Ogonna Christiana⁴

¹Ebonyi state Agricultural Development Programme and Apiary unit, Umuebe Farms Ltd, Abakaliki, Nigeria

²Department of Animal Sciences, Ebonyi state University, Abakaliki, Nigeria

³Raw Materials Research and Development Council, Abuja, Nigeria

⁴Department of Applied Biology, Ebonyi state University, Abakaliki, Nigeria

[Abstract:0130]

Post-harvest Handling Procedure to Obtain Pure Beeswax: South-East Nigeria Experience

[Fausta Ify Ogbuefi Chima](#)¹, Theresa Ebia Omara Achong, Ph.d¹, Sunday Suleiman Onjewu¹, Ani Ogonna Christiana, Ph.d², Akpoka Chiegele Christian³

¹Raw Materials Research and Development Council, Abuja, Nigeria.

²Department of Applied Biology, Ebonyi state University, Abakaliki, Nigeria.

³Ebonyi state Agricultural Development Programme and Apiary unit, Umuebe Farms Ltd, Abakaliki, Nigeria.

[Abstract:0135]

Sensitive Simultaneous Screening of Nitroimidazoles and Chloramphenicol on a Biochip Array Through the Use of Dedicated Multi-Analyte Immunoaffinity Columns for Honey Sample Clean-Up

[Aaron Tohill](#), S. Devlin, J. Porter, R. I. McConnell, S. P. FitzGerald

Randox Food Diagnostics, Crumlin, United Kingdom

[Abstract:0149]

Palynological, Chemical and Quality Characterization of a Bee Pollen Sample from San Orlando Apiary (Tabio-Cundinamarca, Colombia)

Ana María Rodríguez Ocampo, Oscar Orlando Rodríguez Ocampo, Juan Camilo Marín Loaiza
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[Abstract:0155]

Beeswax Foundation as a New Method of Transporting Medical Substances for bee disease control

Valerii Dombrovskiy

Ltd Kyivobltdzholoprom, Boyarka, Ukraine

[Abstract:0172]

Antioxidant Activity of Bee Products

Serdar Mehmetoğlu, Hilal Tevkür, Nurtan Türkarslan, Neslihan Çakıcı, Mukaddes Arıgül Apan, Fazıl Güney
Apiculture Research Institute, Ordu, Turkey

[Abstract:0177]

Physicochemical and Sensory Properties of Different Types of Honey

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[Abstract:0188]

Determination of Pyrrolizidine and Tropane Alkaloids in Honey with Liquid Chromatography Coupled to High Resolution Mass Spectrometry Detection

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²Department of Chemistry, Istituto Zooprofilattico Sperimentale delle Venezie, Padova, Italy

[Abstract:0197]

Artificial Insemination of Apis cerana

Choi Yong Soo, Nguyen Ngoc Vung, Lee Myeong Lyeol, Lee Man Young, Kim Hye Kyung

Department of Agricultural Biology, National Academy of Agricultural Science, RDA, Wanju 565-851, Republic of Korea

[Abstract:0199]

Technique of Apis cerana Breeding for Disease Resistance

Choi Yongsoo, Lee Myeong Lyeol, Lee Man Young, Kim Hye Kyung, Nguyen Ngoc Vung

Department of Agricultural Biology, National Academy of Agricultural Science, RDA, Wanju 565-851, Republic of Korea

[Abstract:0206]

Simple Measurement of D-Glucose, D-Fructose and Sucrose in Honey with Two Assay Kits Applied to the RX Altona Analyser

Rachael Dempsey, Kiera L. Dollin, Jonathan Porter, Aaron Tohill, Maria Luz Rodriguez, R. Ivan McConnell, S. Peter Fitzgerald

Randox Food Diagnostics, Crumlin, United Kingdom

[Abstract:0207]

Physiochemical Analysis of Some Saudi Arabia Honey

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[Abstract:0237]

High-throughput Screening and Quantification of Multi-Xenobiotics in Honey Using Hybrid Quadrupole-Orbitrap Mass Spectrometer Based on a Home-Built Accurate-Mass Database

Jinhui Zhou, Yi Li, Shupeng Yang, Jinzhen Zhang, Yue Jin, Lanzhen Chen, Wen Zhao

Key Laboratory of Bee Products for Quality and Safety Control, Ministry of Agriculture; Institute of Apicultural Research, Chinese Academy of Agricultural Sciences, Beijing, 100093, PR China

[Abstract:0249]

Chloramphenicol Residues in Honey – A New Chapter in a Well-Known Story

Gerhard G. Rimkus, Hauke Zinow

Intertek Food Services GmbH, Bremen, Germany

[Abstract:0250]

Kinetic 12C/13C Isotope Fractionation of Sucrose in Honey by Invertase: Evidence for in Vitro Effect of Isolated Honey Enzymes and in Vivo Effect in Natural High Sucrose Containing Honeys by Analysis with LC-IRMS

Tobias Wiezorek, Gudrun Beckh

Quality Services International GmbH, Bremen, Germany

[Abstract:0262]

Application of an Easy to Use Assay Kit to the RX Altona Analyser for the Reliable Determination of HMF in Honey

K. Dollin, R. Dempsey, J. Porter, D. Ferguson, M. L. Rodriguez, R. I. McConnell, S. P. Fitzgerald
Randox Food Diagnostics, Crumlin, United Kingdom

[Abstract:0268]

Comparison of Honeys Supplied from Beekeepers and Markets's Honeys Produced in Same Region in Terms of Biochemical Structure

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⁶Kahramanmaraş Sütçüimam University, Agriculture Faculty, Department of Animal Science, Kahramanmaraş

[Abstract:0285]

Revealing Pesticide Residues Under High Pesticide Stress in Taiwan's Agricultural Environment Probed by Fresh Honeybee Pollen

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²Department of Food Science, National Ilan University, Taiwan

³Department of Chemical and Materials Engineering, National Ilan University, Taiwan

[Abstract:0304]

Infusion of Seed Extracts into Honey as Additional Source for Better Healthy Living

Bukola Rifkat Adeshina

A And Shine International Limited, Abuja Nigeria

[Abstract:0308]

Residue Problem in Bee Products

Tahsin Demir, Fazıl Güney, Hilal Tevkür, Serdar Mehmetoğlu, Neslihan Çakıcı, Ömer Faruk Atmaca

Apiculture Research Institute, Ordu, Turkey

[Abstract:0318]

The Effect of Heat Treatment Applications on Individual Phenolic Compound Levels of Propolis

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²Department of Pharmacology and Toxicology, Faculty of Veterinary Medicine, Uludağ University, Bursa, Turkey

[Abstract:0322]

Sustainable Management in Apiaries and Adaptation to Climate Environment: Relationship between Winter Losses and Reserves

M. Dolores Tolsá, Astrid Ballesta

Department of Hortofruticulture, Botany and Gardening. Universitat de Lleida

[Abstract:0323]

Determination of Heavy Metal Pollution in Honey Samples Collected from Ankara

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³Scientific and Technological Research Applications and Research Center, Kırıkkale University, Kırıkkale, Turkey

[Abstract:0325]

Useful Bioactive Phenolic Compounds and Trustworthiness of Local and Imported Propolis Samples Sold in Turkey

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¹Department of Pharmacology and Toxicology, Faculty of Veterinary Medicine, Uludağ University, Bursa, Turkey

²Institute of Health Science, Uludağ University, Bursa, Turkey

[Abstract:0327]

Hive Tracking System with Cheap Amateur Devices

Cem Taşkent

Home, Yalova

[Abstract:0333]

Physicochemical Properties of Honeys from Sivas Region

Ömer Faruk Atmaca, Serdar Mehmetoğlu, Hilal Tevkür, Neslihan Çakıcı, Nurtan Türkarslan, Fazıl Güney

Apiculture Research Institute, Ordu, Turkey

[Abstract:0344]

Development of a Real Time PCR Method for *Aethina tumida* DNA Detection from Beehive Debris, Brood Combs and Brood Comb Swabs

Valeria Antognetti¹, Jorge Rivera Gomis¹, Silvia Puccica¹, Giovanni Formato¹, Marco Pietropaoli¹, Giovanni Federico², Andrea Maroni Ponti³, Chiara Baratto⁴, Anna Granato⁴, Franco Mutinelli⁴, Elena Carra⁵, Andrea Leto¹, Ugo Della Marta¹, Antonella Cersini¹

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[Abstract:0345]

Development of Three Real-Time PCR Assays for the Differentiation of *Aethina tumida* from Other Nitidulidae (Coleoptera) Species as Alternative to Morphological Examination

Elena Carra¹, Federica Bergamini¹, Letizia Cirasella¹, Valeria Antognetti², Jorge Rivera Gomis², Marcella Milito², Viviana Belardo², Stefano Bassi¹, Giovanni Formato², Antonella Cersini²

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²Istituto Zooprofilattico Sperimentale del Lazio e della Toscana M. Aleandri, Rome, Italy

[Abstract:0358]

Development of New Biochip-Based Immunoassays for the Detection of Pesticides

E. B. Johns, J. Porter, D. Ferguson, M. E. Benchikh, R. I. McConnell, S. P. FitzGerald

Randox Food Diagnostics, Crumlin, United Kingdom

[Abstract:0361]

Determination of Shelf Life of Chaste Tree (*vitex agnus castus*) and Pine Honeydew (*Marchalina hellenica*) Honeys

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[Abstract:0363]

Determination of Antibiotic Residues from Honey Produced in Hizan District, Bitlis Province

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³Department of Park and Garden Plants, Technical Science Vocational College, Bingöl University, Bingöl, Turkey

⁴Bingöl University, Veterinary Faculty, Department of Preclinical Sciences, Bingöl

[Abstract:0365]

Heavy Metal in Bee Pollen

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²Department of Food Hygiene and Technology, Faculty of Veterinary Medicine, Ankara University, Ankara, Turkey

[Abstract:0386]

Homogenate of Drone Larvas – Biologically Valuable Food Product

Oleksiy Losyev¹, Anna Yagich²

¹Company "BEEHIVE" STANDARD

²The National University of Life and Environmental Sciences of Ukraine

[Abstract:0402]

Identification of the Geographical Origin of the Honeys of the South of Chile by Direct Sample Analysis-Time of Flight-Mass Spectrometry

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²Departamento de Química Inorgánica y Analítica - Facultad de Ciencias Químicas y Farmacéuticas – Universidad de Chile

[Abstract:0405]

Encountered Adulterations in Commercial Honey

Semra Gürbüz

Department of Gastronomy and Culinary Art, Mardin Artuklu University

[Abstract:0410]

QTL Identification of Worker Foraging Initiation in Iranian Honeybee (*Apis mellifera meda*)

Gholamhosein Tahmasbi¹, Fazlollah Afraz², Alireza Tarang², Seyyede Azadeh Javadi Taklimi², Zahra Tahmasbi³, Rahim Saighalani², Payam Potki²

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²Agricultural Biotechnology Research Institute of Iran, North of Iran

³Former M.Sc. student of agriculture biotechnology Payame-noor University

[Abstract:0419]

Determination of Some Quality Properties of Muğla Pine Honeys

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²Namık Kemal University, Faculty of Agriculture, Department of Food Engineering

³Namık Kemal University, Faculty of Agriculture, Department of Agricultural Biotechnology

[Abstract:0433]

Investigation of Sugar Composition and Some Properties of Honey Produced in Migratory Beekeeping Conditions in Various Regions of Turkey

Fazıl Güney, Nurten Türkarlan, Hilal Tevkür, Mukaddes Arıgül Apan, Ömer Faruk Atmaca

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[Abstract:0435]

The Technology of Running Beekeeping in Armenia

Karen Avetisyan, Norak Hakobyan

Department of Honey bee research, "IntAgriFood" International Agricultural & Food Trade Agency

[Abstract:0439]

Characterization of Honeys Produced in the Region of Djelfa Steppe Land in Algeria

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⁴Université catholique de Louvain. SMCS – IMMAQ. Voie du Roman Pays, 20 (bte L1.04.01). B-1348 Louvain-la-Neuve (Belgique).

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[Abstract:0460]

Advanced Identity Methods to Identify Genetic and Environmental Factors for Selection Programs

Soheil Yeganehrad, Hossein Yeganehrad

Caspian Apiaries

[Abstract:0466]

Honey – a Connoisseur's Food

Stuart Anderson, Emily Grace

Beeinventive

[Abstract:0479]

Mineral and Trace Elements in Honey

Hilal Tevkür, Serdar Mehmetoğlu, Neslihan Çakıcı, Nurten Türkarslan, Mukaddes Arıgül Apan, Ömer Faruk Atmaca
Apiculture Research Institute Ordu, TURKEY

[Abstract:0482]

Effect of Heating on HMF and Diastase activity in Honey

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²National IPM Programme, Department of Plant and Environmental Protection, National Agricultural Research Centre, Park Road Islamabad

[Abstract:0486]

The Sacred Bee: In history, Mystery and Myth and it's Relevance on Modern Beekeeping Practices

Laura C Ferguson

College of the Melissae, Center for Sacred Beekeeping, Talent OR, USA

[Abstract:0501]

Effect of Honeybee Venom Collection Frequency on Collecting and Storing Honey

Mahmoud A. El Feel

Beekeeping Research Department, Plant Protection Research Institute (PPR.I.), Agric. Res. Center, Giza, Egypt

[Abstract:0505]

The Effect of Variations in Beehives on Propolis Quality

Cengiz Erkan, Habip Kızıltaş

Department of Animal Science, Faculty of Agriculture, YüzüncüYıl University, Van, Turkey

[Abstract:0508]

The Effect of Heating, Heating and Storage Time on HMF and Diastase Number in High Plato Honey Samples

Durmuş Ali Ceylan¹, Aziz Gül², Nuray Şahinler³, Ethem Akyol⁴, Halil Yeninar⁵, Alaaddin Yörük⁶

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⁶Osmaniye Korkut Ata University, Duzici Vocational High School, Duzici/Osmaniye/Turkey

[Abstract:0517]

Pesticides Application Control and Its Impact on Beekeeping

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³Faculty of Agriculture, University of Josip Strossmayer, Osijek, Croatia

[Abstract:0518]

The Research on the Amount of Zinc Addiction in the Royal Jelly at the Different Levels to the Syrup Which Is Used in the Nutrition of Apis mellifera

Ümit Karataş, Gökhan Akdeniz, Ümit Kayaboynu, Dilek Kabakçı, Tunay Kılıçin, Nazlı Pınar Canverdi, Salim Aktürk, Hayriye Şerefoğlu

Apiculture Research Institute, Department of Breeding Technique, Ordu, Turkey

[Abstract:0536]

Analyzes of Determination of Honey and Product Quality

H.ayla Sarı¹, Ali Kemali Özuğur², Alaaddin Yörük³

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³Osmaniye Korkut Ata University, Düziçi Vocational School, Düziçi, Osmaniye

[Abstract:0542]

The Effects of the Queenbee Production of Different Household Types

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[Abstract:0548]

Honey Production and Quality Assessment Questionnaire Regarding the Chinese District Beekeepers

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²Adnan Menderes University, Çine Vocational School, Aydın, Turkey

³Osmaniye Korkut Ata University, Düziçi Vocational School, Düziçi, Osmaniye

[Abstract:0551]

Monofloral Honeys from Turkey

Nurten Türkarslan, Neslihan Çakıcı, Fazıl Güney, Serdar Mehmetoğlu, Hilal Tevkür, Mukaddes Arigül Apan

Apiculture Research Institute Directorate, ORDU

[Abstract:0558]

Chemical Composition and Antioxidant Activity of Mint Honey

Selçuk Küçükaydın, Meltem Taş, Mehmet Emin Duru, Mehmet Öztürk

Department of Chemistry, Faculty of Science, Muğla Sıtkı Koçman University, Muğla, Turkey

[Abstract:0581]

Analyses of Propolis Productivity in Selected Lineages of Honeybees in Eastern Serbia

Aneta Georgijev, Mica Mladenovic, Sladjan Rasic

Poljoprivredni fakultet u Beogradu

[Abstract:0590]

Granulometric Analysis of Colombian Highland Cundiboyacense Beepollen During an Annual Harvest Period

Claudia Yamile Salazar González¹, Andrés Durán Jiménez¹, Amanda Consuelo Díaz Moreno²

¹Engineering Faculty, National University of Colombia, Bogotá D.C., Colombia.

²Food Science and Technology Institute (ICTA), National University of Colombia, Bogotá D.C., Colombia.

[Abstract:0591]

Honeys from the Lake Region of Chile: Botanical Origin, Biological Activity and Innocuity

Gloria Montenegro, Gabriel Núñez, Víctor Ahumada, Gloria Barros

Facultad de Agronomía e Ingeniería Forestal, Pontificia Universidad Católica de Chile, Macul, Chile

[Abstract:0616]

Environmental Contaminants and Veterinary Drug Residues in Bee Honey

Emine Baydan¹, Semra Gürbüz², Emre Arslanbaş³

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²Gastronomy and Culinary Arts Department, Mardin Artuklu University, School of Tourism and Hotel Management, Mardin

³Cumhuriyet University Faculty of Veterinary Medicine Department of Pharmacology and Toxicology

[Abstract:0628]

Mitigating the African Challenge in Apiculture with the Invention of the Xtreme Indestructible Hemispherical Hive

Eseoghene Ubiuvie Ejenobor

Department of Architecture, University of Lagos, Akoka, Nigeria

[Abstract:0637]

Microscopic Analysis of Honey Sample from Bayburt

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²Department of Veterinary, Demirozu Vocational School, Bayburt University, Bayburt, Turkey

[Abstract:0651]

Propolis: Edible Coating

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²Department of Food Processing, Aydıntepe Vocational School, Bayburt University, Bayburt, Turkey.

[Abstract:0652]

Dry and Royal Jelly Larva Transfer in Queen Bee Production

Ümit Kayaboyun, Muzaffer Duman, Nazlı Pınar Canverdi

Apiculture research institute

[Abstract:0669]

Melissopalynological Analysis of Honeys Designated Honey of Euphorbia Resinifera in the Province of Azilal, Morocco

Ihtassen Abderrahim¹, Msanda Fouad¹, Bettar Ismail²

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²Laboratory of Applied Geology and Geo-Environment, Faculty of sciences, University Ibn Zohr, Agadir

[Abstract:0678]

Honey Grading

Jasper Clinaz, Hossein Yeganehrad
Caspian Apiaries

[Abstract:0687]

Determination of the Initial Flora of Propolis Produced in Bolu for Some Important Foodborne Pathogens and Parasites and Revealing the Contamination Ways

Hayrettin Akkaya¹, Emek Dümen², Gülay Merve Bayrakal²

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²Istanbul University, School of Veterinary Medicine, Department of Food Hygiene & Technology

[Abstract:0688]

Development of Opportunities of Honey Producers for Producing Healthy and Qualified Honey

Hayrettin Akkaya¹, Emek Dümen², Gülay Merve Bayrakal², Funda Hatice Sezgin³

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²Istanbul University, School of Veterinary Medicine, Department of Food Hygiene & Technology

³Istanbul University, School of Engineering, Department of Industrial Engineering

[Abstract:0689]

Hive Tracking and Hive Management Systems - Reconciling Data Requirements of Authorities, Research and Beekeepers

Walter Haefeker

European Professional Beekeepers Association, Oppenau, Germany

[Abstract:0695]

Propolis: Past, Present and Future

İbrahim Yavuz

Akdeniz University

[Abstract:0714]

Beekeeping Field Schools: A Great Chance in Commercial Beekeeping Technology Transfer for Rural and Young Populations for Sustainable Development: A Case Study in Singida Youth Entrepreneurs and Consultants at Kisaki village in Central Tanzania

Philemon Josephat Kiemi

Department of Food Science and Technology, Sokoine University of Agriculture, Morogoro, Tanzania

[Abstract:0717]

Standardization of Beekeeping Products in Countries of European Economic Union and the Russian Federation

Liliia Aleksandrovna Burmistrova, Margarita Nikolaevna Kharitonova

Federal State Budgetary Academic Institution "Research Institute of Beekeeping"

[Abstract:0720]

General Characteristics, Antioxidant Activity and Composition of Crude and Ethanolic Extract of Propolis Collected in Western Region of Yucatán Península, México

Enrique Sauri Duch¹, Cesia Deyanira Gutiérrez Canul², César Abrahán Can Cauich¹, Luis Fernando Cuevas Glory¹, Víctor Manuel Moo Huchin¹

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²Instituto Tecnológico Superior de Calkiní, Calkiní, Campeche, México

[Abstract:0750]

Melilot Honey: Identification and Quality Parameters

Sergej Alekseevi Burmistrov, Liliia Aleksandrovna Burmistrova, Tatjana Mihaylovna Rusakova, Valentina Mihaylovna Martinova,

Elena Petrovna Lapinina, Elena Viktorovna Ljvova

Federal State Budgetary Academic Institution "Research Institute of Beekeeping"

[Abstract:0768]

Characterization of Honeys by their Botanical and Geographical Origins Based on their Physico-Chemical Properties and Chemo-Metrics Analysis

Nuru Adgaba¹, Ahmed A. Al Ghamdi¹, Awraris Getachew¹, Yilma Tadesse¹, Abera Belay³, Mohammed J. Ansari¹, Sarah E. Radloff², Deepak Sharma¹

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²Department of Statistics, Rhodes University, Grahamstown, South Africa

³Center for Food Science and Nutrition Program, Addis Ababa University, Addis Ababa, Ethiopia

[Abstract:0769]

Design and Construction of Avrin Bee venom Collector, Biological Control of Varroa Mite and the Impact on Growth and the Productivity of the Hive

Javad Asgharpour

Iran.East Azerbaijan-Tabriz-Fadakh intersection-Asgharpour Honey

[Abstract:0771]

Evaluation of Antitusive, Espectorant and Anti-Inflammatory Activities of Argentina Stingless Bees Propolis

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[Abstract:0773]

Sensory, Physicochemical and Antioxidant Characteristics of Propolis from the Southern of Buenos Aires, Argentina.

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POLLINATION AND BEE FLORA

[Abstract:0031]

Habitats of Black Sea Region Rhododendrons (*Rhododendron* L.) and Some Morphological Characteristics of Its Pollen

Seref Cınbirtoğlu, Feyzullah Konak, Ahmet Kuvancı, Neslihan Çakıcı

Apiculture Research Institute, Turkey

[Abstract:0109]

Importance of Blue Weed *Echium Vulgare* L. Plants among *Phacelia* *Phacelia Tanacetifolia* B., Red Clover *Trifolium Pratense* L. and White Clover *Trifolium Repens* L. on Preference of Honey Bees

Ahmet Kuvancı¹, Ümit Kayaboynu¹, Muzaffer Duman¹, Fatih Alay², Necda Çankaya²

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[Abstract:0122]

Diversity of Trees and Shrubs of Arasbaran Forests for Honey Bee Feed, Iran

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[Abstract:0126]

Taranjabin Honeydew Honey in Khorasan Province, Iran

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[Abstract:0181]

Comparison Analysis of Pollination Activities between Honeybee (*Apis mellifera* L.) and Bumblebee (*Bombus Terrestris* L.) During the Flowering Period of Asian Pear (*Pyrus pyrifolia* N.) Under Variable Weather Conditions

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[Abstract:0278]

Guidelines for the Establishment of Honey Forests

Kodjo Logou Agossou

Organisation pour la promotion des arts apicole et sylvicole (opaas)

[Abstract:0281]

Managed Honeybee Pollination: Present and Future Need to Enhance Productivity and Quality of Horticultural Crops in Nepal

Khem Raj Neupane

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[Abstract:0312]

Nectar Secretion and Honeybee Visiting Characteristics of Hawthorn (*Crataegus pinnatifida*) Selected from Korea

Youngki Park, Jae Hee Kim, Sea Hyun Kim, Moon Sup Kim

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[Abstract:0336]

A Strategy for Protection of the Main Pollinators in the Nature - the Bees and for Sustainable Development of Beekeeping

Ilija Petrov Tsonev

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[Abstract:0357]

Lebanon's First Beekeepers Calendar

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[Abstract:0370]

Evaluation of the Use of *Apis mellifera* as a Biological Vector in the Pollination of Almonds in a Commercial Company (AGROLAND)

Rosana Jacqueline Diaz, Federico Appolonio

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[Abstract:0372]

Effects of Honeybee (*Apis mellifera* L.) Pollination on Watermelon (*Citrullus lanatus*) Production

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[Abstract:0385]

Pollinator Diversity and Conservation in Asia: Asian Pollination Initiative

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[Abstract:0388]

Country Information Paper on Crop Pollination and Agricultural Production in Nigeria

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[Abstract:0400]

The First Application of NMR Spectroscopy in Differentiation of Turkish Honeys

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[Abstract:0408]

Characterization of Honey and Bee Pollen of the Southern Slope of the High Moroccan Atlas

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[Abstract:0427]

"The Role of Insect Pollinators in Thailand's Agriculture"

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[Abstract:0443]

Honey Bee Floral Resources in Northern Region of Algeria

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[Abstract:0463]

A Survey of Plant Species Diversity in and Around Selected Apiaries in Oyo State, Nigeria

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[Abstract:0472]

Status of Honey Tree Research in Republic of Korea

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[Abstract:0474]

MadhuSandesh – Promoting Pollinators in Indian Agriculture

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[Abstract:0484]

The Most Famous Varieties of Honey in Morocco

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³University Sidi Mohamed Ben Abdallah, Laboratory Physiology-Pharmacology & Environmental Health, Fès, Morocco

[Abstract:0502]

World Bee Day, a Chance for a Better Life of Bees

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Slovenian Beekeepers' Association

[Abstract:0523]

Two New Monofloral Honey Types from Turkey

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[Abstract:0525]

Stingless Bees as Biological Models for Public Engagement and Education

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[Abstract:0546]

Botanical Origin of Pollen Loads from Slovakian Apiaries

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[Abstract:0562]

Half-Lives Of Antibiotics

Mukaddes Arigül Apan, Fazıl Güney, Serdar Mehmetoğlu, Nurten Türkarlan, Neslihan Çakıcı, Hilal Tevkür

Apiculture Research Institute, Ordu, Turkey

[Abstract:0575]

If the World is our Coal Mine Then the Bees are our Canaries

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Arnia Ltd

[Abstract:0589]

Foraging Behavior of Honey Bees on Alfalfa (*Medicago sativa* L.) in Saudi Arabia

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[Abstract:0611]

Diversity of Wild Bees in Forest and Horticultural - Ecosystem in Ziarat Valley of Balochistan-Pakistan

Arif Shah Kakar, Muhammad Azhar Shafiq

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[Abstract:0663]

Inventory and Identification of Some Melliferous Plants in Morocco

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³University Sidi Mohamed Ben Abdallah, Laboratory of Physiology-Pharmacology & Environmental Health, Fez, Morocco

[Abstract:0716]

Melliferous and Carrying Capacity of *Oenothera biennis*

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[Abstract:0765]

Bee Fauna Fertilizing Natural Plant Flowers at the Southern Region of Algeria

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³Laboratory of Zoophytology, Department of Zoology, High school of Agronomy, Algiers, Algeria

[Abstract:0766]

Potential Bee Pollinators of *Asphodelus microcarpus* viv. (Liliaceae), Medicinal Plant in Western Mountainous Region of Algeria

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[Abstract:0767]

Spatiotemporal Distribution of Wild Bees (Hymenoptera, Apoidea) in the Northwest of Algeria

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