



# 6<sup>TH</sup> APIMEDICA

# & 5<sup>TH</sup> APIQUALITY



Istituto Zooprofilattico Sperimentale  
del Lazio e della Toscana M. Aleandri



## INTERNATIONAL SYMPOSIUM

*Final Programme*

ROME  
22-25 NOVEMBER 2016  
NOVOTEL - ROMA EUR

UNDER THE AUSPICES OF

**mipaaf**

Ministero delle  
politiche agricole  
alimentari e forestali



REGIONE  
LAZIO

REGIONE



TOSCANA



# 6<sup>TH</sup> APIMEDICA & 5<sup>TH</sup> APIQUALITY

*The Apiquality & Apimedita International Symposium 2016 is organized by the Apiculture Unit of the Istituto Zooprofilattico Sperimentale del Lazio e Toscana "M. Aleandri". This event aims to create direct connections between the world of scientific research and practical beekeeping through the exchange of information and knowledge.*

## **SCIENTIFIC COMMITTEE**

**Etienne Bruneau**

**Giovanni Formato**

**Cristina Mateescu**

## INTERNATIONAL SYMPOSIUM ROME, 22-25 NOVEMBER 2016

### ***Istituto Zooprofilattico Sperimentale del Lazio e della Toscana "Mariano Aleandri" (IZSLT)***

The IZSLT is an Italian government laboratory operating in the frame of the National Health Service with duties related to animal health and food safety. It provides services in the diagnosis of animal diseases and zoonoses, microbiological, chemical and physical controls over safety of foods and animal feed. In the same areas, it performs research, epidemiological surveillance, continuous training and international cooperation activities. In the frame of IZSLT activities, the Apiculture Unit's mission is to certify and guarantee the health and welfare of bees, the hygiene and safety of the hive products. Among the services offered we find the diagnosis of bee diseases and analyses on hive products, support to Governmental Institutions in drawing up legislation, research activity, collaboration with other laboratories or institutions, technical support and training for operators and pollution environmental monitoring using honey bees.

Contact person

**Dr. Giovanni Formato**  
Head of Apiculture Unit  
[giovanni.formato@izslt.it](mailto:giovanni.formato@izslt.it)

### SPEAKERS

#### **Apimondia**

Apimondia, the International Federation of Beekeepers' Associations, was founded in 1895 and it is the world organisation representing the interests of apiculture. It aims to facilitate links between beekeepers, scientists and all involved with apiculture through the organization of international symposia and congresses. Apimondia is run on a basis of co-operation between beekeepers and scientists from many countries as well as international organizations. A special feature of Apimondia is the wide range of working languages used in publications and at meetings.

Contact person

**Riccardo Jannoni-Sebastianini**

Apimondia Secretary General  
apimondia@mclink.it

#### **Apiquality**

Apiquality is the Apimondia event addressing issues related to the qualitative aspects of bee products, including their production, transformation, storage processes and food safety with a view of their application in the medical sector.

#### **Apimedita**

Apimedita is the Apimondia event addressing topics on apitherapy a branch of alternative medicine that uses honey bees and honey bee products including honey, pollen, bee bread, propolis, royal jelly and bee venom to take care of human, animal and plant health.

#### **CRISTINA AOSAN**

## 22 NOVEMBER 2016 APIQUALITY

07.45 Registration and set-up of poster exhibition

08.30 Welcome

*On. A. Olivero (ViceMinister MIPAAF)*

*P. Sacco (Head Policy Planning Unit, Foreign Affairs Ministry)*

### SESSION

#### APIQUALITY: BEST PRACTICES AND HONEY BEE HEALTH

*Chair: E. Bruneau (Belgium)*

08.45 **Observation of nature, a key to produce apimedica quality products**

*E. Bruneau (Belgium)*

09.25 Seasonal strategies in honeybee pollen production

*P. Fontana (Italy)*

09.50 Training activities for the development of the apiculture sector

*A. Bozzano (Italy)*

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## 22 NOVEMBER 2016 APIQUALITY

16.00 COFFEE BREAK

16.30 **Practical training**

**Pre-clinic indicators as Good Beekeeping Practices: sampling methods and new traceability systems**

- a check-list to verify best practices application

- sampling methods and pre-clinic practices

- innovative traceability systems"

*G. Formato, M. Pietropaoli (Italy)*

17.00 *Discussion*

## 23 NOVEMBER 2016 APIQUALITY

### SESSION

#### STANDARDS AND CHARACTERIZATION OF BEE PRODUCTS

*Chairs: G.L. Marcazzan, M. Milito (Italy)*

09.00 **Geografical and botanical origin of Honeys.**

## 23 NOVEMBER 2016

APIMEDICA

### SESSION

#### NEW PERSPECTIVES

*Chair: C. Mateescu (Romania)*

- 14.00 **Apitherapy**  
**A new approach for honey and hive products**  
*C. Mateescu (Romania)*
- 14.30 Rojal jelly improves mental health  
*N. Iegaki (Japan)*
- 14.45 Essential and omega fatty acid content of bee bread and its effect on heart disease  
*S. Silici (Turkey)*
- 15.00 Bee bread: various usage of bee bread and clinical experiences  
*P.S. Bhandaari (India)*
- 15.15 Practical api-nutrition - what happens when we introduce bee products in our daily diet  
*A.F. Varadi (Romania)*
- 15.30 "Beesabled project": beekeeping in reahabilitation  
*A. D'Angeli (Italy)*
- 15.45 Apiculture intervention for malaria - mitigation in Nigeria  
*D.B.V. Musa (Nigeria)*
- 16.00 COFFEE BREAK
- 16.30 **Practical training**  
**Apipuncture: practical demonstration and clinical evidences**  
*P. Pérez Gómez (Spain)*
- 17.30 Discussion

## 24 NOVEMBER 2016

APIMEDICA

### SESSION

## 24 NOVEMBER 2016

APIMEDICA

### SESSION

#### CLINICAL APPLICATIONS

*Chair: A. Colonna (Italy), C. Aosan (Romania)*

- 12.00 **New perspectives for apitherapy among integrated therapies.  
Hive products and their application in human medicine**  
*A. Colonna (Italy)*
- 12.15 **Apitherapy in the daily practice - Clinical applications**  
*C. Aosan (Romania)*
- 12.30 Evaluating the effectiveness of propolis in the non-surgical treatment  
of periodontal disease  
*C. Salvatori (Italy)*
- 12.45 Bee propolis in the treatment of helicobacter pylori:  
in the right way to clinical application  
*M. Biagi (Italy)*
- 13.00 Experiences and perspectives of infected ulcers and wounds treated  
with knitted viscose mesh  
*A. Miceli (Italy)*
- 13.15 Medicinal honey dressings for burns and other types of wounds:  
properties and clinical effects  
*A. Zbucea (Romania)*
- 13.30 LUNCH
- 14.30 **Selected study cases: 15 years of Apitheraphy  
in Veterinary Medicine practice from Southern Chile**  
*M.A. López Pazos (Chile)*

## 24 NOVEMBER 2016

APIMEDICA

### SESSION

### GENERAL INFORMATION

#### CONGRESS VENUE

Novotel Roma Eur - Viale dell'Oceano Pacifico, 153 - 00144 Rome

#### HOW TO GET TO THE CONGRESS VENUE

From Fiumicino Airport

Toward Rome, follow the signs for the Grande Raccordo Anulare ring road (GRA), toward Pontina/EUR/Laurentina; continue along the GRA until exit 26 EUR, toward the center.

From Ciampino Airport

Take Via Appia toward Rome, then take the GRA ring road toward Pontina/EUR/Laurentina, exit 26 EUR, toward the center.

From Termini train station

Take Metro Line B, Eur Palasport stop, then take the 777 bus line for 3 stops.

#### CONGRESS LANGUAGES

The languages of the Symposium 2016 are English and Italian.

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IN COLLABORATION WITH



# 5<sup>TH</sup> APIQUALITY

ABSTRACTS BOOK

### KEYNOTE SPEAKERS

1. E. Bruneau - Observation of nature, a key to produce apimedica quality products
2. M. Mortarino - Opportunities to reduce the impact of acaricide treatments on the hive
3. C. D'Ascenzi - Study on food risk assessment of pesticide residues in bee pollen
4. C. Kast - Pyrrolizidine alkaloids and other plant toxins in honey and pollen
5. G. Formato - M. Pietropaoli - Pre-clinic indicators as Good Beekeeping Practices: sampling methods and new traceability systems
6. M. Milito - Geographical and botanic origin of honey. International Honey Commission Proficiency tests 2015-2016
7. G.L. Marazzan - Studies for Italian propolis characterization

### ORAL PRESENTATIONS

1. P. Fontana - Seasonal strategies in honeybee pollen production



botanical and / or geographical origin; as well as some physicochemical analysis. The honey is dispatched from a member of the group (i.e. in 2015 the samples was sent by M.C. Seijo Coello of the Faculty of Science of the University of Vigo (Spain) and in 2016 by Paolo Antonio Russo Almeida from the Laboratorio Apícola of UTAD from the Universidade de Trás os Montes e Alto Douro (Portugal)); while the test (organization, statistical analysis, report) is coordinated by the leaders of the group.

In the honey sample used for the Proficiency Test in 2015 the following pollen types were to identified and counted: Cytisus/ Ulex type, Castanea, Eucalyptus, Rubus. In the honey sample used for the Proficiency Test of 2016 the pollens asked for identification and counting were: Echium spp., Cytisus spp., Lavandula pedunculata, Anarrhinum bellidifolium. In 2015, the great majority of the participants identified the honey sample as a blossom honey; in 2016 most of the participants characterized the sample as lavender honey.

### STUDIES FOR ITALIAN PROPOLIS CHARACTER

| Year | Number of events | Total number of participants | Officers only | Beekeepers only | Officers and Beekeepers |
|------|------------------|------------------------------|---------------|-----------------|-------------------------|
| 2003 | 1                | 55                           | YES (1)       |                 |                         |
| 2004 | 1                | 30                           | YES (1)       |                 |                         |
| 2005 | 3                | 110                          | YES (2)       | YES (1)         |                         |
| 2006 | 4                | 320                          |               | YES (1)         | YES (3)                 |
| 2007 | 3                | 190                          | YES (1)       | YES (2)         |                         |
| 2008 | 3                | 150                          |               | YES (2)         | YES (1)                 |
| 2009 | 4                | 200                          | YES (1)       | YES (1)         | YES (2)                 |
| 2    |                  |                              |               |                 |                         |

productions and set the limit only for 5 substances: amitraz, coumaphos, chlorfenvinphos, tau-fluvalinate and cymiazole. The present study was focused on the multiresidue analyses (247 chemicals) of the wax samples collected from 2013 to 2015. The higher pesticide frequencies were associated to: coumaphos (60.7 % of samples), tau-fluvalinate (50%) and chlorphenivfos (35.4 %), often with concentrations higher than the limits set by the RT 16. Moreover, the data reveal along the years, an increased frequency of new generation pyrethroids authorized in products for agricultural practices in these last years and a constant presence of dichlorodiphenyltrichloroethane (DDT) and its metabolites, banned in Europe from decades.

### RESIDUES OF PESTICIDES IN HONEY

S. ALAPALA DEMİRHAN; N. SAHİNLER

*1 Usak University Faculty of Agriculture and Natural Sciences, Usak/T*



Health Sciences, Ahmadu Bello University, Zaria, Nigeria. Result shows the presence of fifteen and twelve pollen samples in Atisbo and Saki West Local Government Areas respectively. The result revealed that all the honey tested were multifloral. The prominent pollens include: Ipomea batata (Convolvulaceae), Ocimum spp (Lamiaceae), Launea taraxacifolia (Compositae), Anarcadium occidentale (Anarcadiaceae), Gliricidia sepium (Fabaceae), Elaeis guinensis (Palmaceae), Glycine max (Fabaceae), Glycine max (Fabaceae), Helianthus annus (Compositae), Brassica spp (Brassicaceae), Moringa oleifera (Moringaceae), Sophora japonica (Fabaceae), Cocos nucifera (Palmae), Psidium guajava (Myrtaceae), Gossypim spp (Malvaceae), Mimosa pudica (Fabaceae), Hymenocardia acida (Phyllanthaceae), Piliostigma thoningi (Fabaceae), Eucalyptus spp (Myrtaceae), Psidium Spp (Myrtaceae), Magnifera indica (Anarcadiaceae), Parkia biglobosa (Fabaceae).

### COMPARISON OF THE PROTECTIVE EFFECT OF MOROCCAN PROPOLIS AND THYMUS VULGARIS AGAINST OXIDATION OF COSMET









propolis composition is believed to contribute its beneficial therapeutical properties.

## THE APICULTURE LABORATORY OF THE ISTITUTO ZOOPROFILATTICO SPERIMENTALE DEL LAZIO E DELLA TOSCANA "M. ALEANDRI" TO GUARANTEE HIVE PRODUCTS QUALITY

M. PIETROPAOLI<sup>1</sup>, J. RIVERA-GOMIS<sup>1</sup>, M. MILITO<sup>1</sup>, V. BELARDO<sup>1</sup>, F. SCHOLL<sup>1</sup>, G. FORMATO<sup>1</sup>

<sup>1</sup>Istituto Zooprofilattico Sperimentale del Lazio e della Toscana "M. Aleandri" – Apiculture Laboratory, Via Appia Nuova 1411 – 00172 ROME, ITALY

The Istituto Zooprofilattico Sperimentale del Lazio e della Toscana "M. Aleandri" (IZSLT) is a public institution of the National Health Service which, on behalf of the Ministry of Health, provides services and research related to animal health and food safety.





we included the sourcing of the “best” beehive products and the handmade, artisan production of the “api-phyto-medical formulations” for animals, to walk from the pathology to health. The presentation graphically shows examples of Integrative Treatment, including beehive products in different animal patients and applied by different ways. To simplify the presentation, the patients were ordered by Medical specialities, like Dermatology and Tegument Surgery (big wounds, skin and general dermatological diseases); Neurological / Neuromuscular diseases, Degenerative diseases, Autoimmune diseases, Reproduction, etc...

## ORAL PRESENTATIONS

### ROYAL JELLY IMPROVES MENTAL HEALTH

N. IEGAKI<sup>1</sup>, Y. NARITA<sup>1</sup>, N. HATTORI<sup>1</sup>, K. ICHIHARA<sup>1</sup>

<sup>1</sup> API Co., Ltd., Gifu, JAPAN

Recently, a randomized, placebo-controlled, double-blind trial of royal







### EXPERIENCES AND PERSPECTIVES OF INFECTED ULCERS AND WOUNDS TREATED WITH KNITTED VISCOSE MESH IMPREGNATED WITH MANUKA HONEY IN THE INAIL PHYSICAL REHABILITATION CENTER OF VOLTERRA (PISA- ITALY)

A.MICELI<sup>1</sup>, A. MIRARCHI<sup>1</sup>, E. NICCOLAI<sup>1</sup>, G. FORMATO<sup>2</sup>, M. MILITO<sup>2</sup>, P. CATITTI<sup>1</sup>

<sup>1</sup> INAIL Physical Rehabilitation Center of Volterra, Volterra (Pisa), ITALY

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Manuka honey is characterized by antimicrobial activity. It contains high amounts (from 100 to 900 mg











**Organizing Secretariat**



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