

## ***One health: Potential risks for human health associated with *Dermanyssus gallinae* and dissemination strategies to communicate recommendations to professionals***

### **GENERAL INFORMATION**

<b>TYPE:</b>	4 days, problem-based course
<b>DATES:</b>	Monday 31 July 2017 – Thursday 3 August 2017
<b>TIME SCHEDULE:</b>	1 <sup>st</sup> day 19.00-21.00; 2 <sup>nd</sup> -4 <sup>th</sup> day 08.30-19.00 with breaks
<b>VENUE:</b>	Nafsika Palace, 6 Heroon Str, 33200 Itea Phokis, Greece <a href="http://www.nafsikapalace.gr/">http://www.nafsikapalace.gr/</a>
<b>HOST INSTITUTION:</b>	Department of Pharmacology, Medical School, National and Kapodistrian University of Athens (NKUA), Greece
<b>ORGANIZING COMMITTEE:</b>	<i>Ekaterini Tiligada</i> FA1404 MC member & WG2 co-leader [EL] Laboratory of Pharmacology, Medical School, NKUA, Greece T: +30 210 7462575 - Email: aityliga@med.uoa.gr
<b>TRAINEE SELECTION &amp; SCIENTIFIC COMMITTEE:</b>	<i>Elias Papadopoulos</i> FA1404 MC member & Vice-Chair [EL] Laboratory of Parasitology and Parasitic Diseases, Faculty of Veterinary Medicine, Aristotle University of Thessaloniki (AUTH), Greece T: +30 2310 999926 - Email: eliaspap@vet.auth.gr
	<i>Monique Mul</i> FA1404 MC member & WG2 Leader [NL] Researcher Animal Health, Wageningen UR Livestock Research, Wageningen Campus, The Netherlands T: +31 317 480387 - Email: Monique.Mul@wur.nl
<b>LOCAL ORGANIZING COMMITTEE:</b>	<i>Ekaterini Tiligada</i> , Associate Professor, Medical School, NKUA [EL], Chair <i>Maria Kakolyri</i> , PhD student, Medical School, NKUA [EL] <i>Andriana Kavallari</i> , PhD Student, Medical School, NKUA [EL] <i>Elias Papadopoulos</i> , Professor, Faculty of Veterinary Medicine AUTH [EL]

### **TS GOALS & LAYOUT**

*The Training School intends to bring the study of *D. gallinae* to a multidisciplinary audience under the One Health approach. The trainees will be trained through multifaceted and realistic problems provided by the trainers. The course aims to*

- widen the cross-sectoral knowledge on the pathological manifestations in humans associated with exposure to poultry red mite (PRM) and its control measures
- provide training on the reliable and effective strategies that could be used to increase the awareness of veterinarians, clinicians, health care officials, poultry farmers and the public on human health risks related to *Dermanyssus gallinae*
- encourage interactions among medical doctors, veterinarians, academic and industrial researchers, public and occupational health officers
- disseminate the outcome (position paper, editorial, leaflet, etc) to improve well-being through risk prevention and management.

The **goals** are to help the attendees develop flexible knowledge and effective problem solving skills through collaboration and intrinsic motivation. The **trainees** will work in groups in order to identify what they know, what they need to know, how to critically evaluate the available information and to proceed to the resolution of the problem.

The **trainers** will provide the appropriate background information through introductory lectures and the existing literature; scaffold, support and monitor the process and stretch the trainees' understanding on the potential risks for human health associated with *D. gallinae*.

**TARGET GROUP<sup>1</sup>:** Academic, industrial and health services investigators (from countries participating in the COST Action FA1404<sup>2</sup>) in

- veterinary medicine (any field related to *D. gallinae*)
- medicine (dermatologists, allergists, pulmonologists, internal medicine, etc)
- biomedical and life sciences (any field related to *D. gallinae* investigation, disease diagnosis & translational research)

**TRAINEE REQUIREMENTS:** Basic knowledge on ANY of the following: *D. gallinae*; mite control measures; human health diagnosis & related procedures; epidemiology; dissemination strategies

**EVALUATION:** Problem solving during the Training School

**CERTIFICATES** will be issued upon successful completion of the course

**NUMBER OF PARTICIPANTS:** 25<sup>3</sup> to be selected by the Trainee Selection Committee & approved by the MC

**TRAINEE SELECTION PROCEDURE:** The Trainee Selection Committee will evaluate the applications by scoring the following criteria: (1) *Motivation to attend the TS* (2) *CV of the applicant including publications* (3) *Support letter by the supervisor/PI* (4) *Travel expenses*

#### IMPORTANT DATES

- ✓ Advertisement: poster, call of Interest, application form to be sent by **end of Feb 2017**
- ✓ Application deadline: **30 Mar 2017**  
(applications to be sent by e-mail to [aityliga@med.uoa.gr](mailto:aityliga@med.uoa.gr) & [andrikava@hotmail.com](mailto:andrikava@hotmail.com))
- ✓ Deadline for trainees' selection & notification of successful applicants: **10 April 2017**
- ✓ Confirmation of attendance by the trainees: **28 April 2017**  
(confirmation to be sent by e-mail to [aityliga@med.uoa.gr](mailto:aityliga@med.uoa.gr) & [andrikava@hotmail.com](mailto:andrikava@hotmail.com))
- ✓ Training school material (presentations) & literature for the trainees to be sent by the trainers to the organizers: **10 June 2017**
- ✓ Literature to be sent by the organizers to the trainees: **20 June 2017**

#### FINANCES

- COST-supported trainees will receive individual grants to cover travel expenses, subsistence & accommodation (grants will be paid by the Action directly to recipients)
- Additional trainees may attend by covering expenses via funding sources other than COST
- Expenses for trainers will be reimbursed by the Action according to the COST rules as indicated by the CORE GROUP

**Cost/person** includes (based on 25 participants<sup>4</sup>):

- ✓ 4 nights BB (In 31.07.2017 - Out 4.8.2017)
- ✓ Full board (welcome dinner x 1 day; 2 coffee breaks, lunch, dinner x 3 days)
- ✓ Transfer Airport-Itea-Airport (on 31.07.2017 afternoon & 4.8.2017 early morning, respectively)<sup>5</sup>
- ✓ Conference room & media, incl WiFi access
- ✓ Training school material (printed and/or electronic)
- ✓ Secretarial support & Registration Desk
- ✓ Excursion to Delphi

Single room: **555.00 €/person**

Double room: **450.00 €/person**

All payments should be made in cash upon arrival

<sup>1</sup> The balance between genders & between the countries participating in the activity will be maintained. The number of trainers will not exceed the number of trainees

<sup>2</sup> BA, BE, CH, CZ, DE, DK, EL, ES, FI, FR, HR, IL, IT, LV, MK, NL, NO, PL, PT, RO, RS, SE, SI, SK, TR, UK

<sup>3</sup> depending on available budget and expression of interest

<sup>4</sup> for any other number of participants, finances will be calculated accordingly

<sup>5</sup> bus will leave from Athens International Airport by **15.00** on 31.7.2017 & from Itea at **6.00** on 4.8.2017; Journey duration ~3.5h. Flights should be booked accordingly

## TOPICS

### Characteristics of the PRM and related parasites

Trainers: Monique Mul (NL), Elias Papadopoulos (EL)

- Introduction to *D. gallinae* and geographic distribution
- Laboratory and microscopic characterization of PRM
- PRM environmental infestation
- PRM control measures
- PRM behavior and preferences lifecycle

### Pathological manifestations in humans associated with exposure to PRM and its control measures -

#### Differential diagnosis - PRM diagnostics

Trainers: Andiana Kavallari (EL), Ekaterini Tiligada (EL)

- PRM host-expansion
- Immunological response to *D. gallinae* – effect of immunosuppression
- The PRM as potential pathogenic vector
- Diagnosis of parasitic diseases in dermatology, allergology and microbiology
- Tools to identify PRM reactions
- Role of pets, pet birds and synantropic birds

### Treatment of PRM-affected individuals

Trainers: Andiana Kavallari (EL), Ekaterini Tiligada (EL)

- Therapeutic approaches
- Resistance indicators of PRM against treatments

### Dissemination strategies to increase the awareness of professionals on human health risks & regulatory affairs connected to PRM

Trainer: Laurens Severijn Hondema (NL)

**NB:** *Introductory talks on the above topics will be delivered by the trainers (2<sup>nd</sup> day morning session)  
Trainees will work on the above topics in groups led by the trainers (2<sup>nd</sup> day afternoon & 3<sup>rd</sup> day)*

*Introductory talks will also be delivered by the guest lecturers via SKYPE (2<sup>nd</sup> day morning session).  
These talks aim to assist group work 2 & 3 that form the core scope of the training school*

**TRAINERS' CONTACT DETAILS**

1. **Laurens Severijn HONDEMA, MD**  
Environmental medical doctor in training  
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5. **Katerina TILIGADA, BSc, PhD**  
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**CONTACT DETAILS OF GUEST LECTURERS (TALKS TO BE DELIVERED VIA SKYPE)**

- **George GUIBAS, MD, PhD**  
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**PRELIMINARY PROGRAMME****Monday 31 July 2017**

- 15.00 *Departure of the Shuttle Bus from Athens International Airport - Transfer to Itea  
(15.00: to meet at the 'Meeting point' located at the Arrivals Level close to Exit 2)*
- 18.30-19.00 *Arrival at the hotel – Check in – Registration*
- 20.00 *Introduction & interaction of participants – Formation of trainees' groups &  
interaction with the trainers – Welcome dinner*

**Tuesday 1 August 2017**

- 08.30-13.30 *Presentation of the topics by the trainers – Introductory talks (with coffee breaks)*
- 13.30-14.30 *Lunch*
- 14.30-17.30 *Group work guided by the group trainer (with coffee breaks)*
- 20.00 *Dinner*

**Wednesday 2 August 2017**

- 08.30-19.30 *Group work guided by the group trainer (with coffee breaks, excursion to Delphi)*
- 20.00 *Dinner*

**Thursday 3 August 2017**

- 08.30-13.30 *Presentation of the outcomes of each group (with coffee break)*
- 13.30-14.30 *Lunch*
- 14.30-17.30 *Discussion & conclusions (with coffee break)*
- 20.00 *Farewell Dinner*

**Friday 4 August 2017**

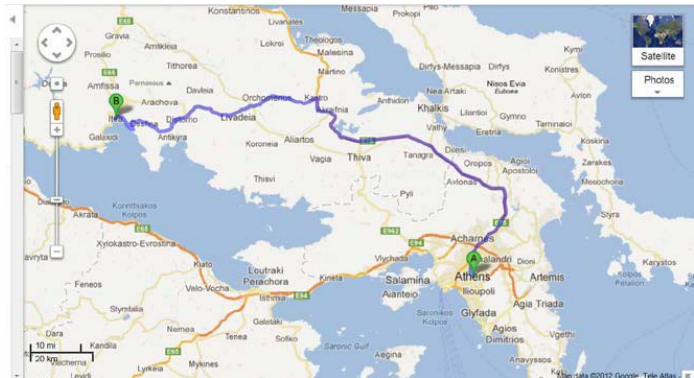
- 06.00-06.30 *Departure of the shuttle bus from Itea - Transfer to Athens Airport*





**Itea** (Greek: Ιτέα meaning willow) extends along the coastline of the *Crissaean Plain* in the south end of the famous landscape of Delphi. It is a relatively new city -founded in 1830 based on the *Ippodamean system of road planning*- with a population of about 9000, located about 15km SW of Delphi and 200km NW of Athens. Behind Itea lies the olive grove of **Amfissa** in the valley of **Phocis**, surrounded by the mountains of Giona & Parnassos. Today, Itea is a bright and bustling resort with a modern marina of 250 vessel capacity, fish taverns, cafés, bars with a view to the **Corinthian Gulf**

and the Peloponnese and many beautiful *blue flag awarded beaches* offering moments of peace and tranquillity and satisfying the most demanding visitors. The city hosts big events, such as the *Acropolis and Olympion rallies*, the Nautical Week, international swimming contests and congresses. Combining mountain and sea, Itea is ideal for short trips (by bus or taxi) to the UNESCO World Heritage archaeological site of the **Delphi** oracle and the temple of Apollo on Mount Parnassus, and to **Galaxidi** at the west end of the Crissaean Gulf, one of the most attractive nautical villages in the country, with a picturesque harbour and the mansions of the ship captains.



**Delphi**, with a population of 1500, is one of the most beautiful and impressive landscapes of Greece, and the *centre -omphalos- of the world*, according to the ancient myth. It was already inhabited in the prehistoric times and later -especially during the classic times- it obtained great historic importance, as it has been linked with the most significant events of Greek history. **Apollo**, the *God of catharsis* and the genuine oracle, dominated earlier forms of worship in Delphi. Apollo taught people the *metron* -prudence and modesty-, which became the most ethical and peaceful expression of the Greek spirit. The famous **Oracle of Delphi**, where the god's divination was given through the mouth of *Pythia*, was directed by the priesthood -priests with deep mystic education-.

Delphi, through the *Amphictyonic institution*, gave the signal for friendship, brotherhood and peaceful coexistence of peoples, a fundamental goal of the *Delphic idea*. The spectacular proof of the world-wide prestige enjoyed by the temple of the *God of Light* were the numerous offerings by leaders, towns and rich citizens, great in both quality and artistic value; unfortunately, very few of them have survived to date. Today the visitor can admire various interesting architectural monuments, such as one of the best preserved *stadium* of antiquity, dating from the roman ages (a stadium had already been there since the 2<sup>nd</sup> half of the 5<sup>th</sup> century BC). The stadium hosted the *Pythian games*, which were very important in Greece and took place every four years. In the NE, lies the sacred place, surrounded by a wall, and containing the *dorian Temple of Apollo* (4<sup>th</sup> century BC), a *theater* for 5,000 spectators, where in 1927-1930 Aggelos & Eva Sikelianos organized for the first time since antiquity ancient drama plays, as well as the *treasures*, mall buildings in the shape of a chapel dedicated to the Sanctuary by various countries to keep the precious offerings. Today the visitor can admire the restored *Treasure of the Athenians*. The most important treasure appears to be the *Treasure of Sifnioi*, especially for its sculpted decoration, exhibited in the *Museum of Delphi* (one of the richest museums of the world), along with the magnificent, unique copper statue of *Iniohos*, the *Sphinx of Naxioi*, the two young man statues and other findings of gold and ivory. In the E, where the two rocks of *Fedriads* meet, one can visit the *Kastalia Spring*, the *Lyceum* and the *Sanctuary of Athena Pronaia*, a true masterpiece of round dorian architecture. In the modern city of Delphi, 1km to the W of the archeological site, the *European Cultural Center of Delphi* aims at reviving Delphi as a European and international cultural centre with global activities.



## WEATHER

Weather is typically Mediterranean, mild with lots of sunshine and limited rainfalls. Summer is warm with plenty of sunshine and temperatures up to 30-35°C. The bay of Itea offers a great place to swim and to enjoy the refreshing waters.