

Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF VETERINARY MEDICINE - SKOPJE



Joint meeting
5th International Vet-Istanbul Group Congress
&
8th International Scientific Meeting
Days of veterinary medicine - 2018

BOOK OF ABSTRACTS

23-27 September 2018
Ohrid, R. of Macedonia

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5th INTERNATIONAL VET-ISTANBUL GROUP CONGRESS AND
8th INTERNATIONAL SCIENTIFIC MEETING
DAYS OF VETERINARY MEDICINE - 2018**

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FOREWORD

Dear Colleagues,

It is my great pleasure to welcome you to the 5th International Veterinary Days of veterinary medicine - 2018, Ohrid, 23th to 27th September.

This year, in cooperation with the Faculty of Veterinary Medicine, we'll be organizing an academic cooperation (VEE) partners, by the public good.

The Faculty of Veterinary Medicine is together outstanding experts in the field of research, veterinary researchers, veterinary doctoral students, off in the veterinary education following topics: animal health and food safety.

The program for the 5th International Veterinary Days will retain its usual popular student papers and posters authors, whose research of the International Scientific Meeting will be selecting 117 papers from the following two poster invited speakers for the talks.

A successful conference is a place, where ideas about the conference are debated, which will open the doors for enjoyment.

On the behalf of the Faculty of Veterinary Medicine in Macedonia.

We look forward to welcoming you to the 5th International Veterinary Days of veterinary medicine - 2018, Ohrid, 23-27 September 2018.

12.50-13.00	<i>Effects of Black Cumin addition to rations on the performance parameters in laying hens</i> Tahir Balevi , Uçkun Sait Uçan, Oğuzhan Kahraman, Abdullah Özbilgin
13.00-14.00	Lunch
Moderators: Prof. Zehra Hajrulai-Musliu and Prof. Ali Aydin	
Scientific papers – Oral presentations	
14.00-14.10	<i>Evaluation Of The Quechers Method And Gas Chromatography–Mass Spectrometry For The Analysis Fipronil And Its Metabolites In Egg Products</i> Aleksandra Tasic , Ksenija Nestic, Tijana Mitrovic, Nebojsa Vukovic
14.10-14.20	<i>Optimization And Validation Of Lc-Ms/Ms Method After Quechers Sample Preparation For Determination Of Fipronil And Its Metabolites In Eggs And Chicken Muscle</i> Elizabeta Dimitrieska-Stojkovič , Dushica Koceva, Aleksandra Angeleska, Biljana Stojanovska-Dimzosa, Gordana Ilievska, Risto Uzunov, Stefan Jovanov, Zehra Hajrulai-Musliu, Dean Jankuloski
14.20-14.30	<i>Determination Of B-Agonist Residues In Liver Using Lc-Ms/Ms Method</i> Risto Uzunov , Zehra Hajrulai-Musliu, Velimir Stojkovski, Elizabeta Dimitrieska-Stojkovic, Biljana Stojanovska-Dimzosa, Stefan Jovanov, Dean Jankuloski
14.30-14.40	<i>The Evaluation Of Histamine Levels In Carp (Cyprinus Carpio) Samples Collected From Afyonkarahisar, Turkey</i> Acaroz Ulas
14.40-14.50	<i>Detection Of Nitroimidazole Residues In Chicken Muscle Tissue And Egg Samples Using Competitive Enzyme Immunoassay</i> Dušica Koceva , Elizabeta Dimitrieska-Stojkovič, Gordana Ilievska, Zehra Hajrulai-Musliu, Dean Jankuloski
14.50-15.00	<i>Development And Validation Of A P-35S, T-NOS, And P-Fmv Multiplex Real-Time PCR Screening Method To Detect Regulatory Genes Of Genetically Modified Organisms In Food</i> Katerina Blagoevska , Dean Jankuloski, Gordana Ilievska
15.00-15.10	<i>Determination Of Total Phosphorus Content In Complete Dog Foods And Its Part In The Nutritional Balance</i> Ana Angelovska , Radmila Chrcheva Nikolovska, Zehra Hajrulai Musliu

Parallel Session II

SCIENTIFIC
SESSION VSTUDENT SESSION

Moderators: Prof. Alen Slavica and Prof. Igor Ulcar	
Plenary lecture – Invited speaker	
9.30-10.00	<i>Harmonization of EU Veterinary Curriculum According To The New Skills And Knowledge</i> Prof. Alen Slavica, PhD , Faculty of Veterinary Medicine, University of Zagreb, Croatia
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OCCURRENCE AND ESTIMATION OF AFLATOXINS AND OCHRATOXIN A EXPOSURE IN SOME FOOD COMMODITIES

Biljana Stojanovska-Dimzoska*, Elizabeta Dimitrieska-Stojkovic,
Zehra Hajrulai-Musliu, Risto Uzunov, Aleksandra Angeleska,
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Aflatoxins and ochratoxin A, due to their worldwide occurrence and toxicity, are two of the most important mycotoxins produced by species of *Aspergillus* and *Penicillium*. They can be found as contaminants in different types of food commodities; mainly in grains, but also in nuts, figs, other dried fruits, spices, cocoa and coffee. These toxins represent a serious threat to both human and animal health exerting carcinogenic, nephrotoxic, immunotoxic, teratogenic, genotoxic and mutagenic effects. Both of them are evaluated by International Agency for Research on Cancer; carcinogenic to humans, group 1 for AFB₁ and a possible carcinogen in humans, group 2B for OTA. Due to the serious effects that mycotoxins can cause, many countries (including Macedonia), have implemented regulation and have established maximum permitted levels for aflatoxins and OTA. The aim of this paper was to screen the market for presence of aflatoxins and OTA in some food commodities: dried figs, cereal-based baby food, spices (ginger, nutmeg, turmeric, curry, black and red pepper) and dry fruits (dates, cranberries, raisins, papaya, pineapple, plums, cherries, apricots). Total of 23 dry fig, 20 cereals-based baby food, 44 spice and 9 dried fruits samples were analyzed. The HPLC-FLD with immunoaffinity column clean-up was the method used for determination of aflatoxins and OTA. The extraction and purification of samples was done according to several modified AOAC and ISO methods. The results were evaluated according to Macedonian legislation (Official Gazette 102/2013) which is in accordance with European regulations. Most of the dried fig samples (22 out of 23) were with aflatoxins concentration below LOD. All cereal-based baby food samples and all dried fruits samples were with aflatoxins concentration below LOD. While spices showed different results as regards aflatoxins and OTA concentration. Namely, aflatoxins were found in 5 out of 10 red pepper samples in concentration range of 0,29 – 2,28 µg/kg and OTA was found in 4 out of 5 red pepper samples in concentration range of 2,88 – 8,31 µg/kg. Also, OTA was found in all ginger samples (0,17 - 4,96 µg/kg) and one curry sample (1,47 µg/kg). Aflatoxins were present in the nutmeg and turmeric samples (1 out of 7 for nutmeg and 2 out of 5 turmeric samples). None of the black pepper samples showed presence of aflatoxins and OTA. Although all samples does not exceed MRL's values recommended with the regulations and there is no severe exposure, caution should be considered in all stages of production for ensuring food safety.

Key words: aflatoxins, ochratoxin A, food commodities

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