FOREWORD

Dear Colleagues,

It is a great honor for us to welcome you to the 5th International Scientific Meeting, Days of veterinary medicine 2014 which will be held at Ohrid, Macedonia, on September 5th - 7th, 2014.

Veterinary science has undergone tremendous development in all fields of research and gained ever-increasing importance in the management of many diseases. Faculty of veterinary medicine in Skopje continuously plays a fundamental role in these processes in our country and this region. These activities have generated significant results in various areas of the veterinary science and contributed greatly to the incorporation of science into every day veterinary practice.

It is a great pleasure to introduce this supplement volume issue of the International Scientific Journal “Macedonian Veterinary Review” which includes the scientific program and presented papers of the 5th International Scientific Meeting.

This supplement issue comprises 135 scientific abstracts from authors of 18 countries selected by the International Scientific Committee, from which 35 have been selected for oral communications, 88 as posters and 12 for student oral presentations.

The program offers unique opportunity for plenary lectures, scientific presentations and discussions regarding the topics of animal health, food safety, public health, animal welfare, animal reproduction and herd health management. The oral presentations, as well as, the poster presentations are categorized in three scientific sessions and two poster sessions respectively, enriched with three workshops:

- **Scientific Session I** (Basic Sciences, Animal Health, Internal Medicine, Clinical Sciences)
- **Scientific Session II** (Food Safety and Veterinary Public Health)
- **Student Scientific Session**
  - Workshop I (Diagnostic Investigations in Companion Animals)
  - Workshop II (Echocardiography in Small Animals)
  - Workshop III (Animal Reproduction, Animal Welfare and Herd Health Management)

On the 5th International Scientific Meeting, Days of veterinary medicine 2014, five international lecturers of the field of veterinary medicine have accepted to present a keynote lectures and to lead the workshops:

- Prof. Dr. Jessika M. V. Cavalleri (Clinic for Horses, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany):
  - Transcutaneous Ultrasonography in Horses with (Acute) Colic
  - Equine Neurology – How to End Up with A Neuro - Anatomical Diagnosis
- Prof. Dr. Aleksandra Domanjko-Petric (Veterinary Faculty, University of Ljubljana, Slovenia):
  - Echocardiography - What Does it Tell Me?
  - Myxomatous Mitral Valve Disease – Epidemiology and Prognostic Factors
- Prof. Dr. Alessandro Seguino (The Royal (Dick) School of Veterinary Studies, The University of Edinburgh, UK):
  - Molecular Epidemiology, a New Approach to Food Safety
- Dr. Vanessa Meganck (Faculty of Veterinary Medicine, University of Ghent, Belgium):
  - Approach of Problem Dairy Herds with Neonatal Calf Diarrhea
- Dr. Kiro R. Petrovski (School of Animal and Veterinary Sciences, University of Adelaide, Australia):
  - Use of modified Calgary-Cambridge Guides in Bovine Consultations

On behalf of the Organizing Committee of Days of Veterinary Medicine 2014, we would like to express all our gratitude to all lectures and participants who shared with us the results of their work and knowledge.

We would like to give thanks to our sponsors and partners for their support.

At the end we wish you an enjoyable and pleasant stay in Macedonia. We strongly believe that the 5th International Scientific Meeting “Days of veterinary medicine 2014” will give us an opportunity to increase and update our knowledge with the newest findings in the field of Veterinary medicine.

On behalf of the Organizing Committee
Ass. Prof. Lazo Pendovski, PhD
Editor in Chief
Macedonian Veterinary Review

**Conflicts of interest:** The authors have no potential conflicts of interest to declare.
EXECUTIVE COMMITTEE

5th International Scientific Meeting

DAYS OF VETERINARY MEDICINE 2014

Local Organizing Committee
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all from the Faculty of Veterinary Medicine -Skopje (Ss.Cyril and Methodius University in Skopje, R. Macedonia)
5th International Scientific Meeting  
Days of Veterinary Medicine 2014  
Ohrid, Macedonia,  
September 5-7, 2014

**GENERAL SCHEDULE**

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<tr>
<td>09.00-09.30</td>
<td>Opening addresses (D. Mitrov, V. Stojkovski, D. Runtevski)</td>
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<tr>
<td>09.30-10.00</td>
<td>Transcutaneous Ultrasonography in Horses with (Acute) Colic</td>
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<td>Jessika M. V. Cavalleri, Clinic for Horses, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany</td>
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<tr>
<td>10.00-11.00</td>
<td>Scientific papers (part I)</td>
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<td>11.00-11.20</td>
<td>Coffee break</td>
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<td>11.20-12.30</td>
<td>Scientific papers (part II)</td>
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<td>12.30-13.00</td>
<td>AVICENA – Commercial Presentation (General Sponsor of the DVM 2014)</td>
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<td>13.00-14.00</td>
<td>Lunch break</td>
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<td>14.00-15.00</td>
<td><strong>Workshop I</strong></td>
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<td><strong>Workshop II</strong></td>
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<td>18.00-20.00</td>
<td>Social program - Guided Ohrid Tour and Visit the Historical Places and Museums in Old Town</td>
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<td>Gala dinner</td>
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5th International Scientific Meeting
Days of veterinary medicine 2014
Ohrid, Macedonia,
September 5-7, 2014

SCIENTIFIC PROGRAM

Day 1 Friday
(5 September 2014)

07:00-09:00 Registration of Participants

09:00-09:30 Opening Addresses
- Prof. Dr. Dine Mitrov, Dean of the Faculty of Veterinary Medicine - Skopje
- Prof. Dr. Velimir Stojkovski, Rector of “Ss. Cyril and Methodius” University in Skopje
- Mr. Dejan Runtevski, Director of Food and Veterinary Agency, R. Macedonia

Scientific Session I
BASIC SCIENCES, ANIMAL HEALTH, INTERNAL MEDICINE, CLINICAL SCIENCES
(Moderators: Nikolovski Goran and Jessika M. V. Cavalleri)

Plenary Lectures
09:30-10:00 O1 - Transcutaneous Ultrasonography in Horses with (Acute) Colic
Jessika M. V. Cavalleri

10:00-10:30 O2 - Myxomatous Mitral Valve Disease – Epidemiology and Prognostic Factors
Aleksandra Domanjko Petric, Andrej Blejec

Oral Presentations
10:30-10:40 O3 - Preliminary Studies on the Prevalence of Specific Antibodies Against Mycoplasma Bovis in Calves
Branka Vidic, Sara Savic, Dubravka Milanov, Dejan Bugarski, Vaso Vidic

10:40-11:00 O4 - Examination of Ampicillin Resistant Enterococci (VRE) Isolated From Canine and Feline Fecal Swabs
Celik Baran, Bagci Gil Arzufinda, Koenhemsi Lora, Adiguzel Mehmetcemal, Or Mehmet Erman, Ak Seyyal

11:00-11:20 Coffee Break

Scientific Session I
BASIC SCIENCES, ANIMAL HEALTH, INTERNAL MEDICINE, CLINICAL SCIENCES
(Moderators: Slavco Mrenoski and Kerstin Dressel)

Oral Presentations
Izka Cvetkovikj, Slavco Mrenoski, Kiril Krstevski, Igor Djadovski, Branko Angelovski, Aleksandar Cvetkovikj
11:30-11:40 O7 - Differentiational Diagnosis of Fasciola Hepatica from Different Animal Hosts by PCR
Aldemir Osman Selçuk, Mederle Narcisa Geanina

11:40-11:50 O8 - Clinical Efficacies of Inactive Moraxella Bovis Autovaccine in a Farm with Infectious Keratokonjunctivitis
Osman Erginis, Zafer Sayin, Asli Sakmanoglu, Huda Jihad Al-Shattrawi, Mustafa Erman Kirkpinar, Islam Köse

11:50-12:00 O9 - Haematological and Coagulation Profiles during Severe Tropical Theileriosis in Cattle
Ramazan Çöl, Uğur Uslu

12:00-12:10 O10 - Two Different Protocols for Pharmacologically-Induced Ejaculation in Equus Asinus
Miroslava Mráčková, Markéta Sedlinská

12:10-12:20 O11 - Radioprotective Effect of Montelukast Sodium Against Hepatic Radioiodine (131I) Toxicity: A Histopathological Investigation in the Rat Model
Nihat Yumusak, Hasan İkbâl Atılgan, Murat Sadic, Salih Sinan Gultekin, Gokhan Koca, Sinem Ozyurt, Koray Demirel, Meliha Korkmaz

12:20-12:30 O12 - Risk Management Strategies in Case of Outbreak of Crimean Congo Hemorrhagic Fever (CCHF) and Other Vector-Borne Diseases (VBD), A Comparative Case Study of R. Macedonia, Turkey and Germany
Kerstin Dressel, Blagica Sekovska, Jovana Stefanovska

12:30-13:00 AVICENA – Commercial Presentation

13:00-14:00 Lunch Break

Workshop I
DIAGNOSTIC INVESTIGATIONS IN COMPANION ANIMALS
(Moderators: Plamen Trojacanec and Jessika M. V. Cavalleri)

Oral Presentations
14:00-14:30 O13 - Equine Neurology – How to End Up with a Neuro - Anatomical Diagnosis
Jessika M. V. Cavalleri, Karsten Feige

14:30-14:45 O14 - Basic Principles of ECG Readings in Small Animals
Goran Nikolovski, Ksenija Ilievska, Elena Atanaskova Petrov, Plamen Trojacanec

14:45-15:00 ESAOTE - Commercial Presentation

Workshop II
ECHOCARDIOGRAPHY IN SMALL ANIMALS
(Moderators: Goran Nikolovski and Aleksandra Domanjko-Petric)

Practical classes
15:00-16:30 O15 - Echocardiography - What Does it Tell Me?
Aleksandra Domanjko-Petric

16:30-17:30 Poster Session (Part I)

18:00-20:00 Social Program - Guided Ohrid Tour and Visit the Historical Places and Museums in Old Town

20:30 GALA DINNER
Day 2 Saturday  
(6 September 2014)

Scientific Program, Mac Vet Rev 2014; 37 (Suppl. 1)

Scientific Session II

FOOD SAFETY AND VETERINARY PUBLIC HEALTH

(Moderators: Dean Jankuloski and Alessandro Seguino)

Plenary Lecture

09:00-09:30
O16 - Molecular Epidemiology, A New Approach to Food Safety  
Alessandro Seguino

Oral Presentations

09:30-09:40
O17 - Antimicrobial Resistance of Staphylococcus Aureus Isolated From Cow’s Udder in Serbia  
Marija J. Pajić, Stanko F. Boboš, Zoran B. Rašić, Branko M. Veletić, Vera R. Katić, Miodrag Ž. Rudinović, Annamaria L. Galfi

09:40-09:50
O18 - Genetic Relatedness of Oxytetracycline Resistant Foodborne Staphylococcus Aureus Strains  
Ali Aydin, Mert Sudagidan, Orhan Yavuz

09:50-10:00
O19 - Identification and Antibiotic Susceptibility of Coagulase Negative Staphylococci Isolated from Dairy Cows with Subclinical Mastitis  
H. Hüseyin Hadimli, Zafer Sayın, Osman Erganısi, Kürşat Kay, Ashı Sakmanoglu

10:00-10:10
O20 - The Evaluation of Anti-Campylobacter Activity of Plant Extracts/Pure Compounds of Essential Oils with Native Microflora  
Cemil Kurekci, Sharon L. Bishop-Hurley, Errol Hassan, Jagadish Padmanabha, Rafat A. M. Al Jassim, Christopher S. McSweeney

10:10-10:20
O21 - Antimicrobial Resistance in Bacteria Associated with Livestock: A situation in Slovenia  
Majda Golob, Irena Zdovc

10:20-10:30
O22 - Staphylococcus Aureus and Production of Enterotoxins in Cheese and Staphylococcus Food Poisoning  
Marija Ratkova, Mirko Prodanov, Ljupcho Angelovski, Sandra Mojsova, Dean Jankuloski, Pavle Sekulovski

10:30-10:40
O23 - Microbiological Quality of Minced Meat and Red Meat Preparations Consumed in Antalya  
Ozturk Umut, Gurbuz Umit

10:40-10:50
O24 - Prevalence of Campylobacter spp. in Broilers at Slaughter  
Ljupcho Angelovski, Dean Jankuloski, Marija Ratkova, Mirko Prodanov, Sandra Mojsova, Pavle Sekulovski

10:50-11:00
Coffee Break

STUDENT SCIENTIFIC SESSION

(Moderators: Zehra Hajrulai-Musliu and Ali Aydin)

Oral Presentations

11:00-11:10
SS1 - The Awareness Questionnaire: Attention to Brucellosis Among Internship Students in Veterinary Faculties of Turkey  
Serkan Ikız, Beren Basaran Kahrman, Bulent Ekiz, Simten Yesilmen Alp, Huban Gocmen, Halil Durmusoglu, Secil Abay, Seyda Cengiz

11:10-11:20
SS2 - Unsaturated Fatty Acid Content in Corn Flakes  
Risto Uzunov, Zehra Hajrulai-Musliu, Basak Kucukcakan, Aleksandra Angeleska, Biljana Stojanovska-Dimzoska, Elizabeta Dimitrieska-Stojkovic, Katerina Daceva, Velimir Stojkovich

11:20-11:30
SS3 - The influence of Transport on the within Flock Prevalence of Salmonella spp. in Laying Hens  
Mirko Prodanov, Marija Ratkova, Ljupcho Angelovski, Dean Jankuloski, Sandra Mojsova, Pavle Sekulovski, Vlatko Iliški
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<th>Time</th>
<th>Presentation</th>
<th>Authors/Participants</th>
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<td>SS4 - Study of Aflatoxin Contamination in Corn and Bread in R. Macedonia</td>
<td>Basak Kucukcakan, Biljana Stojanovska-Dimzoska, Katerina Daveeva, Elizabeta Dimitrieska-Stojkovic, Risto Uzunov, Aleksandra Angeleska, Zehra Hajrulai-Musliu</td>
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<td>11:40</td>
<td>SS5 - Importance of Personnel Hygiene in Food Production Facilities</td>
<td>Elif Calik, Aysen Coban, Ali Aydin</td>
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<td>11:50</td>
<td>SS6 - Rearing Anatolian Buffaloes; From the Traditional till Today</td>
<td>Cihan Gunes, Serhat Alkan, Serkan Ikiz</td>
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<td>12:00</td>
<td>SS7 - Influence of Certain Factors on Career Choices of Veterinary Students in Istanbul University</td>
<td>Melik Ozdemir, Damla Ozdil, Cihan Gunes, Onur Jilta</td>
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<td>12:10</td>
<td>SS8 - Usage of Helminths as Alternative Therapy of Auto-Immune Diseases</td>
<td>Onur Jilta, Mufti Toparlak, Serkan Ikiz</td>
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<td>12:20</td>
<td>SS9 - Effects and Importance of Student Researches in Veterinary Education: A Modal of Istanbul University</td>
<td>Damla Ozdil, Cihan Gunes, Berker Bademli, Ozcicek Mert Basaran, Beren Kahraman, Serkan Ikiz</td>
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<td>12:30</td>
<td>SS10 - Influence of the Reproductive Status on the Development of Mammary Tumors in Bitches</td>
<td>Elena Atanasova Petrov, Ksenija Ilievska, Plamen Trojanac, Irena Celeska, Maja Stojcevska, Todor Novakov, Goran Nikolovski, Ivica Gjurovski, Toni Dovenski</td>
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<td>12:40</td>
<td>SS11 - The Advantages of the Immunohistochemical Method in the Diagnosis of the Circovirus Diseases in Pigs</td>
<td>Ivica Gjurovski, Trpe Ristoski</td>
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<td>12:50</td>
<td>SS12 - Semen Quality of Ovchepolean Pramenka Rams During Non-Breeding Season</td>
<td>Monika Dovenska, Florina Popovska-Percinic, Vladimir Petkov, Martin Nikolovski, Toni Dovenski</td>
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<td>13:00</td>
<td>Lunch Break</td>
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<td>14:00</td>
<td>O25 - Change in Fatty Acid Composition of Chilled Ram Semen in Relation to Spermatozoa Motile Activity</td>
<td>Martin Nikolovski, Monika Dovenska, Riste Uzunov, Zehra Hajrulai-Musliu, Vladimir Petkov, Toni Dovenski</td>
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<td>14:20</td>
<td>O26 - In Vitro Effect of Oxytocin and Prostaglandin on Stallion Sperm Quality</td>
<td>Sen Cebi Cigdem, Akcay Ergun</td>
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<td>14:30</td>
<td>O27 - Possibility for Inducing Follicular Growth in Dairy Cows Diagnosed with Inactive-Static Ovaries Using two Different Treatment Methods – A Field Trial</td>
<td>Branko Atanasov, Ljupco Mickov, Igor Esmerov, Ksenija Ilievska, Martin Nikolovski, Toni Dovenski</td>
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<td>14:40</td>
<td>O28 - Early Short Term Water Restriction upon Liver Function and Morphology in Broilers</td>
<td>Katarina Blagojevska, Aleksandar Dodovski, Andreja Blagojevski, Florina Popovska-Percinik, Ljupco Mickov, Velimir Stojkovski</td>
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<td>14:50</td>
<td>O29 - Maturation Rate of Cattle Oocytes of Different Quality</td>
<td>Omer Korkmaz, Sükri Küplülü, Birten Emre, Abazer K. Zonturlu</td>
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<td>15:00</td>
<td>O30 - Analysis of Demographic Data on Lost and Found Dogs in Belgrade, Serbia</td>
<td>Marijana Vučinić, Katarina Radisavljević, Alexandra Hammond-Seaman, Vlatko Ilieski</td>
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<td>15:10</td>
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<td>15:20-15:40</td>
<td>O31</td>
<td>Approach of Problem Dairy Herds with Neonatal Calf Diarrhea</td>
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<td>15:40-16:00</td>
<td>O32</td>
<td>Use of Modified Calgary-Cambridge Guides in Bovine Consultations</td>
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<td>16:00-16:10</td>
<td>O33</td>
<td>Postural Behaviour in Gilts: Rubber Mats versus Concrete Flooring</td>
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<td>16:10-16:20</td>
<td>O34</td>
<td>Grazing in Dairy Farms With Milking Robots and Grazing Costs</td>
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<tr>
<td>16:20-16:30</td>
<td>O35</td>
<td>Investigation of the Antigen Recognition and Presentation Capacity of Pecteneal Hyalocytes in Chicken (Gallus Gallus Domesticus)</td>
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ORGANIZATION OF THE POSTER-SESSIONS
in the 5th International Scientific Meeting “Days of veterinary medicine 2014”

The congress will have two poster sessions (Poster session I and Poster session II) which will take place on Friday 5 and Saturday 6 September 2014, respectively. All posters are classified according to the thematic subject on the general schedule of the meeting.

The both poster sessions will be guided, meaning that the poster presenting authors will have to present the content of their poster to the moderators of a session and interested listeners in a maximum of 3 minutes, with discussion afterwards. A total of 5 minutes, answers and questions included, will be allocated per poster.

POSTER SESSION I: Friday September 5, 2014, 16:30-17:30
Moderators (Igor Ulchar, Irena Celeska, Štefan Bodeček, Bojan Toholj, Plamen Trojacanec, Maja Vasiljević)

P1 The Influence of Diets on the Developing of Gingivitis and Periodontitis in the Dogs
Haxhi Allmuca, Jani Mavromati, Brunilda Mazari

P2 Effectiveness of Toothbrushing to the Cases of Gingivitis and Periodontitis of Dogs
Haxhi Allmuca, Brunilda Mazari

P3 Resistance of Salmonella Isolated from Affected and Dead Animals, Antibiotic Sensitivity Testing and Selection of Highly-Effective Preparation
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