
6th International Scientific Meeting
Days of veterinary medicine 2015
Struga, Macedonia
September 24-26, 2015

SCIENTIFIC PROGRAM

Thursday
(24 September 2015)

18:00-20:00 **Registration of the participants**

20:00 **Welcome Cocktail**

Friday
(25 September 2015)

8:00-9:00 **Registration of Participants**

9:00-9:15 **Opening Addresses**

- Prof. Dr. Vladimir Petkov, Dean of the Faculty for Veterinary Medicine - Skopje
- Prof. Dr. Velimir Stojkovski, Rector of University “Ss. Cyril and Methodius“ in Skopje
- Mr. Zoran Popovski, Director of Food and Veterinary Agency, R. of Macedonia

SCIENTIFIC
SESSION I

BASIC SCIENCES, ANIMAL REPRODUCTION, ANIMAL WELFARE

Plenary Lectures

(Moderators: Prof. Toni Dovenski and Prof. David B. Morton)

9:15-9:45 **O1 - The dual role of farm animals in animal production and translational model for biomedical research**
Antonio Gonzalez-Bulnes,

9:45-10:15 **O2 - The relationships between animal welfare, economics, ethics and the law - an uneasy alliance for vets - where do we stand?**
David B. Morton,

10:15-10:45 **O3 - The use of in vivo imaging to study pregnancy in non-rodent animals**
Eve Mourier, Christophe Richard, Pascale Chavatte-Palmer

10:45-11:15 **O4 - Culture independent molecular approaches and Next Generation Sequencing in the service of veterinary research**
Georgios Oikonomou,

11:15-11:45 **O5 - Morphology of the tongue in fish species of commercial interest**
Francesco Abbate,

11:45-12:00 Coffee break

Oral Presentations

(Moderators: Prof. V. Ilieski and Dr. Pascale Chavatte Palmer)

12:00-12:10 **O6 - Genome-wide SNP analysis of genetic diversity in Western Balkans and Central European sheep breeds highlights the presence of a strong phylogeographic gradient**
Samantha Bretinier, Vlatka Cubric-Curik, Mojca Simčič, Bozidarka Markovic, Igor Esmerov, Dragana Ružić-Muslić, Ondřej Štěpánek, Fabio Sallustio, Johannes Arjen Lenstra, Elena Ciani

12:10-12:20 **O7 - Comparison of staining methods for PMN cell counts in endometrial cytology samples to diagnose subclinical endometritis in dairy cows**
Osvaldo Bogado Pascottini, Pouya Dini, Miel Hostens, Richard Ducatelle, Gheert Opsomer

12:20-12:30	O8 - Examination of antioxidant effect of ellagic acid on rat testis exposed to tobacco smoke Nalan Kaya, Gonca Ozan, Özlem Dabak, Seyfettin Gür, <u>Enver Ozan</u>
12:30-12:40	O9 - The Effects of pralidoxime, atropine, N-asetylcysteine on liver and kidney of malathion exposed rats <u>Sema Temizer Ozan</u> , Gonca Ozan, Mehmet Ali Kisaçam, Tuncay Kuloğlu
12:40-12:50	O10 - Implementing behavioral assessment programs in veterinary practice for standardized evaluation of canine and feline temperament and diagnostics of behavior disorders <u>Dunja Kovac</u>
12:50-13:00	O11 - Attitudes of key stakeholders towards cattle welfare in commercial dairy farms in Macedonia <u>Miroslav Radeski</u> , Egzon Zhitia, Vlatko Ilieski, Skender Muji, Christoph Winckler
13:00-13:30	BIOTEK Solutions- Commercial Presentation General sponsor of the Days of veterinary medicine 2015
13:30-14:30	Lunch

SCIENTIFIC SESSION II

FOOD SAFETY AND VETERINARY PUBLIC HEALTH

Plenary Lectures

(Moderators: Ass. Prof. Dean Jankuloski and Prof. Benjamin Felix)

14:30-15:00	O12 - Update on activities of European Union Reference Laboratory for <i>Listeria monocytogenes</i>, a road map toward European harmonization of the typing of food and clinical strains of <i>Listeria monocytogenes</i> D. Michelon, <u>Benjamin Felix</u> , JF. Mariet, B. Lombard, S. Roussel
15:00-15:30	O13 - Veterinary drug residues in food matrices: analysis, EU regulation and trends <u>Els Van Pamel</u> , Els Daeseleire
15:30-15:45	O14 - Multi-annual national control plan (MANCP) in R. of Macedonia <u>Abdulezel Dogani</u> , Food and Veterinary Agency, Republic of Macedonia
15:45-16:00	Coffee break

Oral Presentations

(Moderators: Dr. Elizabeta Dimitrieska Stojkovikj and Dr. Els Van Pamel)

16:00-16:10	O15 - Genotyping and phenotyping of isolates from human salmonellosis Dean Jankuloski, Milena Petrovska, Elena Trajkovska Dokic, Snezana Stojkovska, Mirko Prodanov, Marija Ratkova, <u>Katerina Blagoevska</u>
16:10-16:20	O16 - Profile of the antimicrobial resistance of <i>Salmonella</i> spp. isolates from raw meat in R. Macedonia <u>Marija Ratkova</u> , Mirko Prodanov, Ljupco Angelovski, Dean Jankuloski, Pavle Sekulovski
16:20-16:30	O17 - <i>Campylobacter</i> spp. prevalence in broilers at slaughter after chilling <u>Ljupco Angelovski</u> , Dean Jankuloski, Marija Ratkova, Radmila Crceva Nikolovska, Mirko Prodanov, Pavle Sekulovski
16:30-16:40	O18 - Optimization and validation of LC-MS/MS method for multiresidual analysis of β-agonists in urine <u>Risto Uzunov</u> , Zehra H. Musliu, Elizabeta D. Stojkovic, Biljana S. Dimzoska, Aleksandra Angeleska, Bashak Kucukchakan, Dean Jankuloski, Velimir Stojkovski
16:40-16:50	O19 - Effects of caffeic acid phenethyl ester on liver in high-fructose corn syrup drinking rats <u>Gonca Ozan</u> , Mehmet Kaya Özer, Nevin Kocaman, Abdurrahman Gün
16:50-17:00	O20 - The effect of corn oil addition on physical, chemical and sensory acceptability of culled layer hens sausages <u>Hendronoto Arnoldus Walewangko Lengkey</u> , Roostita Lobo Balia
17:00-17:30	Poster Session I
17:30-20:00	Social program (Part I), Guided Ohrid tour and visit the historical places
20:00	GALA DINNER (Open Terrace in Hotel Drim)

**Saturday
(26 September 2015)**

**SCIENTIFIC
SESSION III**

ANIMAL HEALTH, INTERNAL MEDICINE, CLINICAL SCIENCES

Plenary Lectures

(Moderators: Prof. Jovana Stefanovska and Prof. Gad Baneth)

- 9:00-9:30 **O21 - Canine leishmaniosis - an overview**
Gad Baneth
- 9:30-10:00 **O22 - Dairy cattle lameness - Overview and recent advances**
Georgios Oikonomou
- 10:00-10:10 **O23 - Ultrasound measurement of digital cushion thickness in dairy cows with sole ulcer**
Ksenija Ilievska, Branko Atanasov, Toni Dovenski, Snjezana Trojcanec, Plamen Trojcanec
- 10:10-10:20 **O24 - Prevalence of *Rhodococcus equi* in meat animals in Poland**
Lucjan Witkowski, Magdalena Rzewuska, Shinji Takai, Magdalena Kizerwetter-Świda, Michał Czopowicz, Jerzy Kita
- 10:20-10:30 Coffee break

Oral Presentations

(Moderators: Prof. Goran Nikolovski and Prof. Georgios Oikonomou)

- 10.30-11.00 **O25 - Prevention of early embryonic death by rapid milk progesterone test in a dairy herd**
George Bonev Georgiev
- 11.00-11.10 **O26 - Current clinical experience with the use of adipose derived mesenchymal stem cells in horses**
Petra Kramarič
- 11.10-11.20 **O27 - Abscess diseases in goats**
Josipa Habuš, Krešimir Matanović, Zrinka Štritof, Zoran Milas, Vilim Staresina, Branka Šeol Martinec, Nenad Turk
- 11.20-11.30 **O28 - Seroprevalence and geographical distribution of small ruminant lentiviruses in sheep and goats in Macedonia**
Igor Djadjovski, Dine Mitrov, Ivancho Naletoski, Aleksandar Janevski, Kiril Krstevski
- 11.30-11.40 **O29 - Application of fluorescence based molecular assays for improved detection and typing of *Brucella* strains in clinical samples**
Kiril Krstevski, Ivancho Naletoski, Dine Mitrov, Slavcho Mrenoshki, Iskra Cvetkovikj, Aleksandar Janevski, Aleksandar Dodovski, Igor Djadjovski
- 11.40-11.50 **O30 - Phylogenetic analysis as a tool to better understand an epizootic of Newcastle disease in Macedonia**
Aleksandar Dodovski, Igor Djadjovski, Kiril Krstevski
- 11.50-12.00 **O31 - Presence of Ctx-M type extended-spectrum beta-lactamase producing *Escherichia coli* in healthy laying hens**
Faruk Pehlivanoglu, Turutoglu Hulya, Ozturk Dilek, Yardimci Hakan
- 12.00-12.10 **O32 - Bacteria associated with postpartum dysgalactia syndrome in farmed sows in the Republic of Macedonia**
Branko Angelovski, Aleksandar Cvetkovikj, Slavcho Mrenoshki, Miroslav Radeski, Iskra Cvetkovikj, Marija Ratkova, Toni Dovenski
- 12.10-12.20 **O33 - Features of canine leptospirosis in Croatia**
Zrinka Štritof, Josipa Habuš, Vesna Mojcec, Zoran Milas, Matko Perharic, Kresimir Martinkovic, Vilim Staresina, Ljubo Barbic, Vladimir Stevanovic, Suzana Hadina, Nenad Turk
- 12.20-12.30 **O34 - Transfusion in dog**
Damjan Gračner, Ozren Smolec, Marko Samardžija, Boris Stojanov, Gordana G. Gračner
- 12.30-12.40 **O35 - Premedication and preparation before anesthesia in dogs and cats**
Todor Novakov, Ksenija Ilievska, Elena Atanaskova Petrov, Plamen Trojcanec
- 12.40-12.50 **O36 - Multimodal anesthesia with zoletil / medetomidine/butorphanol/ propofol / ketamine for dental procedures in brown bears (*Ursus arctos*)**
Bogdan Yanev Aminkov, Nikolay Hristov Mehandžijiski, Nadya Zlatzarova Zlateva-Panayotova
- 12.50-13.00 Wrap up discussion
- 13.00-14.00 Lunch

WORKSHOPS

(Moderators: Ass. Prof. Jovana Stefanovska and Prof. Plamen Trojancanec)

14.00-14.45	Clinical cases of canine tick-borne diseases <u>Gad Baneth</u> , School of Veterinary Medicine, Hebrew University, Israel
14.45-15.30	Modern methods for prophylaxis and therapy of dental diseases in dogs and cats <u>Ivan Borisov</u> , Trakia University, Faculty for Veterinary Medicine, Stara Zagora, Bulgaria
15:30-16:00	Wrap up Discussion
16:00-16:30	Poster Session II
17.00-20.00	Social program (Part II), Guided Struga tour and visit the historical places
20.00	DINNER at Macedonian national restaurant - Kutmichevica in village Vevcani

ORGANIZATION OF THE POSTER-SESSIONS

in the 6th International Scientific Meeting “Days of veterinary medicine 2015”

The meeting will have two poster sessions (Poster session I and Poster session II) which will take place on Friday 25 and Saturday 26 September 2015, respectively. All posters are classified according to the thematic subject on the general schedule of the meeting.

POSTER SESSION I: Friday September 25, 2015, 17:00-17:30

- P1 **Preliminary study from the implementation of timed artificial insemination (TAI) protocols in dairy herds in Macedonia**
Branko Atanasov, Ksenija Ilievska, Ljupco Mickov, Plamen Trojancanec, Igor Esmerov, Nikola Adamov, Toni Dovenski
- P2 **The influence of cryoprotectant concentration on motility of cryopreserved boar spermatozoa**
Ljupco Mickov, Branko Atanasov, Vladimir Petkov, Martin Nikolovski, Katerina Blagoevska, Toni Dovenski
- P3 **Suitability of centrifugation based technique for spermatozoa isolation**
Monika Dovenska, Martin Nikolovski, Krum Manavski, Viktor Ristov, Florina Popovska-Percinic, Vladimir Petkov, Toni Dovenski
- P4 **Association analyses of DNA polymorphisms in bovine *PRL* and *DGAT1* genes with milk production traits in Simmental cows**
Maja Maurić, Igor Štoković, Miroslav Benić, Tomislav Mašek, Marija Špehar, Kristina Starčević
- P5 **Effects of tannin supplementation on duodenum morphology and cell proliferation in fattening boars**
Diana Bilić-Šobot, Marjeta Čandek-Potokar, Valentina Kubale, Dejan Škorjanc
- P6 **Different concentrations of hydrolysable tannins fed to entire males affect salivary glands**
Maša Rutar, Jana Brank vič, Gregor Fazarinc, Martin Škrlep, Nina Batorek, Marjeta Čandek-Potokar, Valentina Kubale
- P7 **The skull of the “Ruda” sheep in Albania: Morphological and morphometrical data**
Sokol Duro, Ilirjan Bakiasi
- P8 **Clinical anatomy of the lower jawbone of the “Ruda” sheep in Albania**
Sokol Duro, Ilirjan Bakiasi
- P9 **Muscle variations – from embryonic development to clinical importance**
Ivan Alić, Tajana Trbojević Vukičević, Martina Đuras, Dražen Vnuk, Snježana Kužir, Vesna Gjurčević Kantura
- P10 **Perinatal growth of skeletal muscle cells of pheasants hatched from eggs of different eggshell colour**
Verica Lj. Milošević, Slobodan Z. Stojanović, Zlatko D. Jojkić, Nataša Ristić, Vladimir Ajdžanović, Lazo Pendovski, Gordana M. Ušćebrka
- P11 **Developmental programming of the gonadotropic cells by glucocorticoids**
Verica Milošević, Nataša Ristić, Svetlana Trifunović, Ivana Medigović, Jasmina Živanović, Marko Miler, Florina Popovska-Perčinić, Gordana Ušćebrka
- P12 **Measurement of physical parameters of air quality and the level of harmful gases in laying hens housing**
Mirko Prodanov, Miroslav Radevski, Vlatko Ilieski
- P13 **Wireless sensors for heard health monitoring and production management in dairy farming**
Viktor Denkovski, Biljana Stojchevska, Martin Nikolovski, Monika Dovenska, Toni Dovenski
- P14 **Determination of sampling number and localisation about hygienic control of cheese vat, press clot and canvas**
Aylin Kasimoglu Dogru
- P15 **Studies on mycotoxin contamination level in pig feed**
Biljana Stojanovska-Dimzoska, Zehra Hajrulai-Musliu, Elizabeta Dimitrieska-Stojkovic, Risto Uzunov, Aleksandra Angeleska, Dean Jankuloski
- P16 **Determination of radioactivity exposure in terms of radium equivalent and radiation risk index in the surrounding of the city of Skopje**
Aleksandra Angeleska, Elizabeta Dimitrieska-Stojkovic, Risto Uzunov, Zehra Hajrulai-Musliu, Biljana Stojanovska-Dimzoska, Dean Jankuloski, Romel Veleu
- P17 **Overview over chemical composition of some selected feeds for sheep and lambs**
Ana Cvetanovska, Radmila Chircheva Nikolovska, Zehra Hajrulai - Musliu, Dean Jankuloski
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- P18 **Effect of dietary eicosapentaenoic and docosahexaenoic acid supplementation during last month of gestation on colostrum fatty acids composition in Charolais cows**
Diana Brozić, Kristina Starčević, Maja Maurić, Zvonko Stojčević, Marina Vranić, Tomislav Mašek
- P19 **Optimization and validation of UHPLC tandem mass spectrometry method for determination of multi-class pesticide residues in bovine liver applying QuEChERS sample preparation**
Elizabeta Dimitrieska-Stojkovic, Aleksandra Angeleska, Zehra Hajrulai-Musliu, Risto Uzunov, Biljana Stojanovska-Dimzoska, Gordana Ilievska, Goran Stojkovic
- P20 **Aflatoxins occurrence in peanuts and products containing peanuts**
Katerina Davcheva, Biljana Stojanovska-Dimzoska, Basak Kucukcakan, Zehra Hajrulai-Musliu, Elizabeta Dimitrieska-Stojkovic, Risto Uzunov, Aleksandra Miza, Dean Jankuloski
- P21 **Comparison of extraction methods in HPLC-FD analysis of ochratoxin-A in swine kidney**
Basak Kucukcakan, Zehra Hajrulai-Musliu, Biljana Stojanovska-Dimzoska, Elizabeta Dimitrieska-Stojkovic, Risto Uzunov, Katerina Davcheva
- P22 **Antioxidative properties and GC-MS analyses of Croatian native propolis for implementation in veterinary medicine**
Kristina Starčević, Marijana Hranjec, Ivana Zorić, Diana Brozić, Tomislav Mašek, Lada Radin, Božo Radić, Jelena Šuran
- P23 **Microbiological quality of soft, semi-hard and hard cheeses during the shelf-life**
 Josip Vrdoljak, Vesna Dobranić, Ivana Filipović, Nevijo Zdolec
- P24 **Antilisterial activity of spices in vitro**
 Ivana Filipović, Nevijo Zdolec, Vesna Dobranić
- P25 **Comparison of marketing authorisation procedures of veterinary drugs in EU and USA and regulatory perspective in Macedonia**
Todor Šapov, Suzana Trajković-Jolevska, Romel Vele, Jasmina Tonic-Ribarska, Nataša Krleska-Veleva
- P26 **Validation of GC-MS method for determination of organochlorine pesticides in honey**
Zehra H. Musliu, Risto Uzunov, Elizabeta D. Stojkovic, Biljana S. Dimzoska, Aleksandra Angeleska, Bashak Kucukchakan, Dean Jankuloski, Velimir Stojkovski
- P27 ***Fusarium* mycotoxins and toxigenic moulds occurrence in maize from Albania**
Dritan Topi, Karin Šrimpf, Katarina Pavšić-Vrtač, Igor Ujčić-Vrhovnik, Gabrijela Tavčar-Kalcher, Breda Jakovac-Strajn
- P28 **Levels of lead and cadmium in cereal products commercially available in Macedonia**
Dušica Koceva, Elizabeta Dimitrieska-Stojković, Zehra Hajrulai-Musliu, Dean Jankuloski
- P29 **Pulsed – field gel electrophoresis used for epidemiological study of extended spectrum β lactamases – producing *Escherichia coli* colonizing respiratory tract in children**
Gorica Popova, Dean Jankuloski, Lazo Pendovski, Zehra Hajrualai-Musliu, Arita Sabriu, Katerina Blagoevska
- P30 **Targeting counterfeit and substandard food and food supplement behind the illicit trade in Republic of Macedonia**
Elena Ristovska, Romel Vele, Pavle Sekulovski, Sloboden Cokrevski

POSTER SESSION II: Saturday, September 26, 2015, 16:00-16:30

- P31 **Trend in cow mastitis pattern in Croatia**
 Luka Cvetnić, Marko Samardžija, Miroslav Benić, Boris Habrun, Gordan Kompes, Silvio Špičić, Željko Cvetnić
- P32 **Antimicrobial activity of non-alcoholic propolis solution against common bovine mastitis pathogens**
Krešimir Matanović, Branka Šeol Martinec, Iva Štimac, Lada Radin, Goran Bačić, Nino Mačešić, Miroslav Benić, Božo Radić, Jelena Šuran
- P33 **Relationship between milk urea nitrogen and fertility in dairy cows**
Danijela Kirovski, Irena Celeska, Ljubomir Jovanović, Snežana Stevanović-Đorđević, Željko Sladojević
- P34 **Presence of virulence genes, biofilm production and antibiotic susceptibilities in *Trueperella pyogenes* isolated from cattle**
Dilek Ozturk, Hulya Turutoglu, Faruk Pehlivanoglu, Leyla Guler
- P35 **Investigation of *Listeria monocytogenes* outbreak on a dairy cattle farm**
Majda Golob, Mateja Pate, Darja Kušar, Matjaž Ocepek, Andrej Pengov, Irena Zdovc
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- P36 **Some descriptive epizootiological features of 223 cattle positive on bovine tuberculosis in epizootiological area of Kumanovo**
Zarko Strojmanovski, Sasho Tanaskovski, Davor Stojkovski
- P37 **Outbreaks of listeriosis in small ruminants with different clinical manifestations in the Republic of Macedonia**
Iskra Cvetkovikj, Slavcho Mrenoshki, Marija Ratkova, Zagorka Popova, Igor Djadjovski, Kiril Krstevski
- P38 **Partial sequencing reveals the existence of one BTV-4 strain on whole territory of Macedonia during 2014 outbreak**
Zagorka Popova, Kiril Krstevski, Igor Djadjovski, Aleksandar Janevski, Dine Mitrov, Slavcho Mrenoshki, Iskra Cvetkovikj, Aleksandar Dodovski
- P39 **Ocular fibrosarcoma in a sheep**
Ozlem Ozmen, Ozlem Sengoz Sirin, Harun Çınar, Hüseyin Dolu
- P40 **Pathological examination on hearts of lambs with white muscle disease**
Ozlem Ozmen, Nilay Serpin
- P41 **Haemogram changes in lactating compared to non-lactating assaf dairy sheep**
Irena Celeska, Nadezda Stojkovska, Igor Ulchar, Igor Dzadzovski, Nikolov Dejan, Toni Dovenski, Danijela Kirovski
- P42 **Giant mediastinal thymoma in a goat**
Olga Szaluś-Jordanow, Czopowicz M, Witkowski L, Kaba J, Sapierzyński R, Bonecka J, Jońska I, Frymus T
- P43 **An outbreak of purulent meningoencephalitis caused by *Trueperella Pyogenes* in a goat herd**
Michał Czopowicz, Jarosław Kaba, Olga Szaluś-Jordanow, Łucjan Witkowski, Marcin Mickiewicz, Magdalena Rzewuska, Małgorzata Sobczak-Filipiak, Emilia Bagnicka
- P44 **The prevalence of *Pasteurella multocida* from farm pigs in Serbia**
Oliver Radanovic, Jadranka Zutic, Dobrila Jakic-Dimic, Branislav Kureljusic, Bozidar Savic
- P45 **Distribution of the PCV2 antigen in different tissues and the histopathological changes in the same tissues from pigs with PMWS**
Ivica Gjurovski, Trpe Ristoski
- P46 **Effect of gestation on hematological and biochemical parameters in donkeys (*Equus asinus*)**
Miroslava Mráčková, Markéta Sedlinská, Štěpán Bodeček
- P47 **Allergen-specific IGE in horses with equine recurrent airway obstruction (RAO) and healthy controls, assessed by in vitro allergy testing**
Artur Niedzwiedz, Zbigniew Jaworski, Hieronim Borowicz, Krzysztof Kubiak
- P48 **Evaluation of different diagnostic techniques for the diagnosis of fascioloidosis in red deer**
Krešimir Severin, Franjo Martinković, Dean Konjević, Albert Marinculić, Zdravko Janicki, Tomislav Mašek, Petar Džaja
- P49 **Prevalence of *Trichinella* larvae in macedonian red foxes (*Vulpes vulpes*)**
Aleksandar Cvetkovikj, Ivica Gjurovski, Aleksandar Janevski, Ljubica Rashikj, Slavica Dimovska, Jovana Stefanovska
- P50 **Simultaneous occurrence of sebaceous and modified sebaceous gland carcinomas in a dog**
Ahmet Aydogan, Yusuf Sinan Sirin, Ozlem Ozmen, Harun Çınar
- P51 **Fourth branchial arch defect (4-bad) – Case report**
Štěpán Bodeček, Petr Jahn, Miroslava Mráčková
- P52 **Streptococcal mastitis with skin lesion**
Mesih Kocamüftüoğlu, Gökhan Bozkurt, Nilay Serpin, Ezgi Şababoğlu
- P53 **Chronic *Ehrlichiosis canis* in miniature pinscher - Clinical case**
Elena Atanaskova Petrov, Goran Nikolovski, Todor Novakov, Irena Celeska, Ivica Gjurovski, Trpe Ristoski, Ksenija Ilievska
- P54 **Presence of *Dirofilaria repens* at dogs in Belgrade area**
Ivan Pavlovic, Branislav Rangelov, Ljubomir Ćurčin, Klara Ćurčin, Vladimir Antić, Dragana Petković, Vladimir Terzin, Dragana Terzin, Branislav Pešut
- P55 **Squamous cell carcinoma in tongue in a cat with unilateral kidney hypoplasia**
Ozlem Ozmen, Yusuf Sinan Sirin
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- P56 **Colonotomy in Sharplanina mountain dog - clinical case**
Viktorija Andonovska, Bojan Shikoski, Goce Atanasovski, Elena Atanaskova Petrov, Todor Novakov, Igor Ulcar, Irena Celeska, Ksenija Ilievska, Plamen Trojancanec
- P57 **Polyomavirus and *Macrorhabdus ornithogaster* combination as a cause of high mortality in a commercial budgerigar aviary**
Ozlem Ozmen, Ahmet Aydogan
- P58 **The effects of different doses of vitamin C supplementation on blood and egg cholesterol**
Arzu Yigit, Emine Ozdemir
- P59 **First record of *Atractolytocestus huronensis* in open waters in Croatia**
Damir Valić, Irena Vardić Smrzlić, Emil Gjurgević, Damir Kapetanović
- P60 **Development and pathogenicity of *Eimeria dicentrarchi* (Apicomplexa: Eimeriidae) in farmed european sea bass**
Emil Gjurgević, Iris Debelić, Snježana Kužir, Krešimir Drašner, Benjamin Rosenthal
- P61 ***Thelohanellus hovorkai* (myxosporea) in farmed common carp (*Cyprinus carpio carpio*): two cases from Croatia**
Emil Gjurgević, Ivan Vlahek, Krešimir Drašner, Krešimir Matanović, Snježana Kužir
- P62 **The role of communication in the successfully management of veterinary ambulance**
Blagica Sekovska, Natasha Danailovska, Bojan Shikoski
- P63 **Marketing mix for veterinary services in the Republic of Macedonia**
Natasha Daniloska, Blagica Sekovska
- P64 **Clinical use of stem cells in veterinary medicine**
Ozren Smolec, Plamen Trojancanec, Boris Pirkić, Bojan Toholj, Nina Brkljača Bottegato, Damjan Gračner, Marko Pećin, Josip Kos