

INTERNATIONAL SCIENTIFIC CONFERENCE



PROCEEDINGS

FRIDAY, 6 OCTOBER 2017

PLENARY SESSION

The future of veterinary reproductive medicine

Axel Wehrend (Justus Liebig University Giessen, Germany)



***Dermanyssus gallinae* – a ghost ectoparasite for the Greek laying hen industry: Results of a pilot study**

Konstantinos Arsenopoulos, Athanasios Angelou & Elias Papadopoulos (Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece)



Reduced stress and fatigue indicators (cortisol and creatinine kinase) in dairy cattle due to fly repellency using deltamethrin (Butox[®], MSD)

Konstantinos Arsenopoulos, Eleftherios Triantafyllou & Elias Papadopoulos (Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece)



Ways to control dog and cat populations – contraception in companion animals

Sandra Goericke-Pesch (Faculty of Health and Medical Sciences, University of Copenhagen, Denmark)

Orthopedics – joint diseases in cattle

Alexander Starke (Faculty of Veterinary Medicine, University of Leipzig, Germany)



Pathology of the canine aging brain: An animal model of human neurodegenerative diseases

Nikolaos Papaioannou (Aristotle University of Thessaloniki, Greece)

One health: What veterinarians know that physicians don't

Iliia Tsachev (Faculty of Veterinary Medicine, Stara Zagora, Bulgaria)



Application of proteomics in cancer research

Hamdi Uysal (Ankara University, Turkey)

ORAL SESSION 1: BIOMEDICAL & PRECLINICAL SCIENCES



Comparison of PCR primers for the identification of *Cryptosporidium* species and genotypes in calves

E. Hatalová, A. Valenčáková, J. Kalinová, L. Luptáková, O. Danišová & M. Hůska



Viruses and parasitic diseases identification by molecular methods of the honey bee (*Apis mellifera*)

Hristov, P., A. Georgieva, D. Sirakova, B. Neov & G. Radoslavov



Mitochondrial profile in Bulgarian native breeds of dogs

M. Marinov, P. Hristov, A. Georgieva, D. Sirakova, B. Neov & G. Radoslavov



Morphogenesis of endocrine islets of pancreas of geese

I. Fesenko, O. Miroshnik & Y. Maslak



Ethological aspects of hens welfare supplemented with immunomodulator *Immunobeta*

N. A. Bozakova, L. K. Sotirov, T. V. Koynarski, S. V. Kalvacheva & P. P. Boycheva



Productivity aspects of turkey welfare after *Immunobeta* supplementation

N. A. Bozakova, L. K. Sotirov, T. V. Koynarski, N. S. Mincheva, M. G. Oblakova, M. T. Lalev & P. D. Hristakieva

ORAL SESSION 2: CLINICAL SCIENCES



Histopathologic alterations of lung tissue caused by hypoxia in calves deceased due to dystocia

P. Martz, K. Failing & A. Wehrend



The effect of glucose administration on plasma potassium in cattle

P. Mudroň & E. Helin



Immune and metabolic indices in dairy cows with inflammation

P. Mudroň



Fibroblasts and their role in health and disease

H. Uysal



Fluid biomarkers, clinical and histopathological features in aged canine: The prognostic value for the canine cognitive dysfunction

I. T. Stylianaki, Z. S. Polizopoulou, G. G. Koliakos & N. G. Papaioannou



Surgical approach to a chronic recto-vaginal prolapsus in an Anatolian buffalo

S. Alkan, G. Petrovas, R. Arici & G. Naglis

ORAL SESSION 3: PUBLIC HEALTH



Detection and frequency of infectious bursal disease virus (IBDV) VP2 gene variants in chickens in Turkey

N. Turan, A. Gurel, A. Yilmaz, U. Y. Cizmecigil, O. E. Bamac, O. Aydin, E. Bayraktar, B. Çakan & H. Yilmaz



Variants of infectious bronchitis virus (IBV) in chickens in Turkey and production of recombinant IBV-N protein by using baculovirus expression system

H. Yilmaz, U. Y. Cizmecigil, A. Gurel, B. Faburay, B. Cetinkaya, O. Aydin, J. A. Richt & N. Turan



Use of fenbendazole and abamectin for control of helminthoses in free living mouflons (*Ovis musimon* L.)

I. Dakova, M. S. Panayotova-Pencheva & M. T. Alexandrov



Home produced Hellim cheese and its microbiological control

A. Karaarslan, G. Petrovas, E. Akkaya & T. Kahraman



The usage of electronic nose in food industry

B. Ozcan, S. Ikiz & T. Kahraman



Use of *Artemia franciscana* as a biofilter for catching *Cryptosporidium parvum* oocysts

J. Kalinová, A. Valenčáková, E. Hatalová, O. Danišová, L. Luptáková & M. Špalková

SATURDAY, 7 OCTOBER 2017

ORAL SESSION 1: BIOMEDICAL & PRECLINICAL SCIENCES



Effect of antioxidants on spermatological parameters in two different carp species after short-term storage

I. Yavas, F. S. Seçer & T. K. Yavas



Age-related anatomical and microscopic features of the oesophagus and stomach in the rainbow trout (*Onchorynchus mykiss*)

P. Y. Yonkova, H. A. Bardarova, G. I. Zhelyazkov, R. S. Simeonov, K. K. Dimitrov, G. Penchev, G. S. Vateva & M. G. Stefanov



Effect of fish oil and restricted feeding on blood lipid profile in a rabbit model of castration induced obesity

N. Grigorova, B. Bjorndal, Zh. Ivanova, G. Penchev, E. Vachkova, R. Berge, T. Mircheva-Georgieva & I. Penchev Georgiev



Activated carbon from fruit stones as ibuprofen carrier – encapsulation and *in vitro* release study

Z. L. Yaneva, L. L. Bekirska, N. V. Georgieva, B. K. Derventlieva & I. D. Gandev



Distribution of extracellular matrix protein laminin in the placenta of *Myotis myotis* (Borkhausen, 1797) (Chiroptera: Vespertilionidae)

E. P. Paksuz & S. Paksuz



Is Kaiserling solution a convenient fixative for mammalian organ specimens? Evaluation of morphometric, colorimetric and volumetric properties

C. Bakici, R. O. Akgün, O. Ekim, Ç. Oto, D. Özen & M. Bilsay



Volumetric and colorimetric evaluation of formalin and Kaiserling fixation methods in domestic avian specimens

R. O. Akgun, C. Bakici, O. Ekim, C. Oto, I. O. Orhan & U. Kaya



Immobilization of brown bears (*Ursus arctos* L.) in Bulgaria

V. Todorov & D. Zlatanova

ORAL SESSION 2: CLINICAL SCIENCES



Innovative approach to cryopreservation of canine semen

D. Gradinarska & Maria Ivanova



Dorsal pharyngeal collapse in a Thoroughbred filly

S. P. Sabey & D. T. Kanakov



Rostral displacement of the palatopharyngeal arch in a foal – clinical and endoscopic survey

S. P. Sabev & D. T. Kanakov



Intensive care to wild avivorous-carnivorous raptors and seagulls

B. K. Tekelioglu, M. Celik, M. A. Gokce, O. Tasbozan, Y. Uzun, C. Erbas, S. S. Tabakoglu, S. Kandir & L. Celik



Ultrasonographic determination of the gestational age through measurements of some parameters of the fetal heart in Bulgarian local goats

M. Karadaev, I. Fasulkov, N. Vasilev & S. Atanasova



Nuclear morphometry and survival in canine spontaneous cutaneous squamous cell carcinomas

R. S. Simeonov



Survey on brainstem auditory-evoked responses in dogs with normal hearing

G. V. Terziev



Linear and goniometric measurements in dogs with medial patellar luxation

R. Garnoeva, M. Paskalev, M. Koleva & K. Nedeva



First-service conception rates in anestrus dairy cows after Double-Ovsynch and additional progesterone treatment

G. Naglis, I. Fasulkov, M. Karadaev, R. Vasileva, G. Petrovas & N. Vasilev



Diamond doves – aggressive behaviour during egg incubation

S. Nikolov & B. Murad

ORAL SESSION 3: PUBLIC HEALTH



Detection of *Cryptosporidium* spp. in various foods

F. Y. Eker, T. Kahraman & A. Koluman



Canine papillomatosis: clinical outcome after oral isotherapy, subcutaneous *Tarantula cubensis* venom and oral levamisole-azithromycin treatment

B. K. Tekelioglu, C. Parkan, A. Yilmaz, N. Turan, A. Gurel, K. Berber, D. Haktanir, K. Sonmez, M. Noelle-Issautier & H. Yilmaz



Spread of infection to poultry challenged with *E. coli* K88 and fed different diets

B. Ekim, S. Y. Dogan & C. Ozdemir



Comparative pathomorphological investigations in important gastrointestinal diseases in newborn and growing calves

I. Kalkanov, I. Dinev & P. Iliev



Antibacterial activity of a powder product for floor and litter sanitation in intensive poultry farming

G. Zhelev, I. Lazarov, V. Petrov, K. Koev & M. Lyutskanov



Isolation of methicillin-resistant *Staphylococcus aureus* (MRSA) from bulk tank milk (BTM) of dairy farms in Greece

P. Papadopoulos, A. Angelidis & D. Sergelidis



Campylobacteriosis (biology of the pathogen, sensitivity to antibacterial drugs)

T. Fotina, A. Berezovskiy, H. Fotina, A. Fotin, Z. Klishova, A. Fotin & O. Kasyanenko



Comparison of haematological, serum biochemical and histopathological changes in sheep liver fluke

E. Xhemollari, L. Dhaskali, E. Dimço & J. Abeshi



Changes in red blood count parameters in New Zealand White rabbits after experimentally induced *Pasteurella multocida* infection

Y. P. Petrova, T. M. Georgieva, I. P. Georgiev, V. S. Petrov, I. I. Kalkanov, M. P. Karadaev & S. H. Stoev



Chicken mite: epidemiological aspects of distribution

A. Berezovskiy, L. Nagorna & T. Fotina



Prevalence of *Listeria monocytogenes* in raw cow milk – a review

D. R. Bangieva & V. N. Rusev

SATURDAY, 7 OCTOBER 2017

POSTER SESSION 1: BIOMEDICAL & PRECLINICAL SCIENCES



Maternal nutritional metabolic diseases, affect the epigenetics of preimplantation rabbit embryos

D. V. Abadjieva & E. K. Kistanova



Use of dry corn distillers grain with solubles in weaned pig feeding

M. S. Todorova & M. M. Ignatova



Antitumour activity of lipid-lowering drug simvastatin on Graffi myeloid cells

A. Georgieva, V. Uzunova, R. Tzoneva & R. Toshkova



Effect of *Haberlea rhodopensis* oral intake on healthy volunteers

R. Todorova, R. Radev & A. T. Atanasov



Sensitivity of human and rat platelet-rich blood plasma to drugs inhibiting platelet aggregation

A. T. Atanasov, S. Radev & R. T. Todorova



Design of inulin acetates with potential antimicrobial activity

N. T. Petkova, Y. D. Tumbarski, I. I. Ivanov & P. P. Denev



Antimicrobial activity of *Bacillus methylotrophicus* BM47 against *Botrytis cinerea* in different conditions of cultivation

Y. D. Tumbarski



The practice of applying iodine polymer Monclavit-1

A. Kuznetsov, G. Nikitin, K. Rozhkov, A. Belopolsky & I. Lunegova



Use of adaptogen «Energy» in industrial pig breeding

I. Lunegova, A. Kuznetsov & A. Lunegov



Influence of sanitary-hygienic factors on swine resistance and health

N. Cherniy, A. V. Mitrofanov, A. Mitrofanov, Y. Shchepetilnikov, Y. Balym & O. Machula



Influence of immunostimulating preparations on resistance of pigs kept under non-regulated microclimate conditions

N. Cherniy, A. V. Mitrofanov, A. Mitrofanov, Y. Shchepetilnikov, O. Machula & E. Tkachuk



Changes in Δ -desaturation and fatty acid composition in rats chronically treated with sucrose in the drinking water

K. Starčević, N. Filipović, A. Galan, M. Šperanda, M. Đidara & T. Mašek



Increasing the adsorption of clinoptilolite as toxin binder by heat treatment

H. M. Eseceli, A. Ozcan, E. Demir & T. Bilal



Ultrastructural peculiarities of Sertoli cells in pig testes

G. Penchev



SEM: Microvascular corrosion casting of the feline myocardium

D. I. Vladova, R. S. Dimitrov, D. L. Kostov, K. D. Stamatova-Yovcheva, D. G. Yovchev & M. G. Stefanov



Age-related light microscopy histometric investigation on bursa of Fabricius in the common bronze turkey (*Meleagris meleagris gallopavo*)

D. S. Dimitrov, G. Penchev, D. Yovchev & K. Stamatova-Yovcheva



Micrometrical study of the oesophageal wall of the wild bronze turkey (*Meleagris gallopavo*)

D. G. Yovchev, G. P. Georgiev & D. S. Dimitrov



Garden valerian (*Valeriana officinalis*) – from sedative drug to a pheromone

B. Murad, P. Vassileva, B. Derventlieva & S. Nikolov



Elaboration of transparent biological specimens for visualisation of developing cartilage and bone structures

N. Tsandev, A. Atanasoff, G. Kostadinov, E. Petrova-Pavlova & I. Stefanov



An alternative method for the preparation and preservation of various insect specimens

O. Ekim, M. Ayvali, C. Bakici, R. O. Akgun, M. Aslan, M. C. Bezgal & A. Atanasoff



EPA and DHA influenced differently the mRNA expression levels of some lipolysis-related factors in subcutaneous and visceral rabbit ADSCs *in vitro*

E. Vachkova, D. Bosnakovski, B. Bjørndal, P. Yonkova, N. Grigorova, Zh. Ivanova, G. Penchev, A. Milanova & I. Penchev Georgiev

POSTER SESSION 2: CLINICAL SCIENCES



The influence of the sheep breed on the cryotolerance of spermatozoa

M. N. Andreeva, N. T. Metodiev, T. S. Tsvetkov & R. G. Stefanov



Effect of non-hormonal agents Tribestan and Lactina[®] on the sexual behaviour and quality of semen in rams during non-breeding season

K. Hristov, P. Parvanov, N. Vasilev, I. Fasulkov & M. Karadaev



Evaluation of dog encephalitis causes with encephalographic findings

Y. Toker, A. Bayrakal, O. Iskefli & A. Akdoğan Kaymaz



Hirudotherapy: a rediscovered alternative therapy technique in human and veterinary medicine

G. Campay, S. İkiz, Y. Develioğlu, G. Kasıkçı & M. Toparlak



Heavy metal pollution in the view of veterinary public health

N. Sıpahtı & S. İkiz



Unusual hyperthermia related to general anaesthesia in an Anatolian Sheep dog

Ö. Güzel, E. Yildar, B. Karan, D. Aydın & D. S. McKinstry



Investigation on effects of aflatoxin B₁ alone or co-administered with Mycotox NG on the renal function of turkey broilers

I. Valchev, N. Grozeva, D. Kanakov, Ts. Hristov, L. Lazarov, K. Stoyanchev & R. Binev



Investigation on humoral immunity and histopathological changes in the bursa of Fabricius of turkey broilers challenged with aflatoxin b₁ alone or co-administered with Mycotox NG

N. Grozeva, I. Valchev, L. Lazarov, Ts. Hristov, D. Kanakov, K. Stoyanchev & R. Binev



Unilateral ovariocornuectomy – a successful treatment to preserve fertility in bitches with granulosa cell tumour

A. L. Antonov, A. S. Atanasov & R. S. Simeonov



A rare case of galactorrhoea in a domestic tom cat

A. L. Antonov, I. S. Irinkova & S. D. Simeonov



Apocrine gland adenocarcinoma in a dog – a case report

R. S. Simeonov



Proventricular dilatation disease: Anatomical aspects of diagnostics in the domestic canary (*Serinus canaria*)

H. R. Hristov, D. I. Vladova, D. L. Kostov, R. S. Dimitrov, Ts. M. Chaprazov & N. V. Goranov



A case of extreme hypoglycemia in a pregnant bitch

P. Georgiev, A. Antonov, Ts. Ivanova, I. Kalkanov, A. Atanasov, M. Karadaev & I. Dinev



Radiological findings of common dental diseases in dogs and cats

A. Robaj & E. Shabani



Radiological findings of lysosomal enzymes disease in dogs and cats – a review

E. Shabani & A. Robaj

POSTER SESSION 3: PUBLIC HEALTH



Detection and frequency of hepatitis A and E viruses in mussels collected from the Bosphorus, in Istanbul, Turkey

H. Yilmaz, U. Y. Cizmecigil, E. A. Tarakci, O. Aydin, A. Yilmaz, M. Calicioglu, G. Ciftcioglu, A. Aydin, K. Bostan, T. Sireli, M. Guzel, A. Karakullukcu, B. Kocazeybek, W. H. M. van der Poel, J. A. Richt & N. Turan



Examination of potency of tuberculin purified protein derivatives, produced in Bulgaria

G. P. Hadzhieva, S. D. Hadzhiev & M. G. Bonovska



Recent avian avulavirus 1 outbreaks in Bulgaria

G. Goujgoulova & G. Stoimenov



Pathological observation in pigs naturally infected with *Mycoplasma hyopneumoniae*

R. Pepovich, B. Nikolov, K. Hristov & K. Genova



New device for extracting larvae and small nematodes from herbivore's faeces

O. A. Loginova, L. M. Belova & N. A. Gavrilova



New method for larvae and small nematodes immobilisation

O. A. Loginova, L. M. Belova & N. A. Gavrilova



Identification of chlamydial species in small ruminants with ocular infections

O. Danišová, M. Halánová, A. Valenčáková, J. Kalinová, E. Hatalová & L. Čechová



Leptospirosis in Albania in 2015

L. Alla, X. Koleci, E. Abazaj, E. Rogozi & S. Bino



Comparison of haematological and serum biochemical parameters in different liver pathologies

E. Xhemollari, L. Dhaskali, N. Papaioannou, M. Kritsepi, E. Dimço & J. Abeshi



Gastrointestinal helminths of sheep reared in southwest Serbia

I. Pavlović, S. Ivanović, D. Ćirković, M. P. Petrović, V. Caro Petrović, N. Maksimović & D. Ivanovic



Potential antimicrobial activities of *Zostera* spp. from Aegean Sea against *Edwardsiella tarda*

H. Yavuzcan, F. S. Seçer, M. Eryilmaz, S. Özbilgin, B. Ergene, H. C. Tekin & G. S. Işcan



Microbiome: The second brain

A. I. Kecec, S. Ikiz, I. Abas & A. K. Seyyal



The evolution of bacterial identification

B. Maslak, S. Ikiz & A. F. Bagcigil



Phenotypic determination of heavy metal resistance in *E. coli* isolates from bovine faeces

S. Ikiz & N. Sipahi



Evaluation of different anti-rabies conjugates used for rabies diagnosis confirmation

M. A. Dascalu, A. Servat, F. Daraban, E. Velescu & O.-I. Tanase



Two different systems for the isolation of rabies virus in cell cultures

M. A. Dascalu, A. Servat, F. Daraban, E. Velescu & O.-I. Tanase



Effect of temperature and desiccation on some exogenous stages of *Haemonchus contortus*

P. Iliiev, P. Prelezov, A. Ivanov, Z. Kirkova & I. Kalkanov



Retrospective analysis on helminthic and protozoan infections in dogs and cats in Bulgaria

P. Iliiev, Z. Kirkova, A. Ivanov, P. Prelezov, A. Tonev & I. Kalkanov



Changes in blood lipid profile in rabbits after experimental infection with *Staphylococcus aureus*

T. M. Georgieva, V. Petrov, I. P. Georgiev, D. Zapryanova, L. Lazarov, Ts. Hristov, J. P. Petrova, P. Iliiev & F. Cecilian



Rapid Alert System for Food and Feed notifications referring to food contact materials in 2016

S. Todorova



Availability of residues from veterinary medicinal products, according to the Rapid Alert System for Food and Feed (RASFF) for the period 01.01.2015–31.05.2017

I. Bogoeva



Determination and assessment of the content of collagen in minced meat and meat products offered at the Bulgarian market

G. Kalinova, M. Marinova, P. Mechkarova, D. Mladenova & E. Grigorova



Diagnostics and prevention of linguatulosis in carnivores

L. M. Belova, N. A. Gavrilova, M. S. Petrova & O. A. Loginova



Medications for treatment of pigs with mono- and mixed parasitic infections

M. S. Petrova, L. M. Belova, N. A. Gavrilova, O. A. Loginova & V. A. Shiryayeva



Serological investigation of donkey and mule blood samples for detection of equine hepatitis virus

N. G. Sandev, N. V. Rusenova, A. G. Rusenov, D. S. Zapryanova, R. N. Vasileva



Academicians' views about nature of science in veterinary medicine faculties

S. Ikiz, N. Erzaim, O. S. Irez, O. K. Dogan, N. Fezic & Z. Herulaj-Musli



As a stranger, why Istanbul University for PhD

G. Petrovas



THE USAGE OF ELECTRONIC NOSE IN FOOD INDUSTRY

B. OZCAN¹, S. IKIZ² & T. KAHRAMAN³

¹Faculty of Veterinary Medicine student, Istanbul University, Istanbul, Turkey; Department of Microbiology, Faculty of Veterinary Medicine, Istanbul University, Istanbul, Turkey; ²Department of Food Hygiene and Technology, Faculty of Veterinary Medicine, Istanbul University, Istanbul, Turkey

Summary

Ozcan, B., S. Ikiz & T. Kahraman, 2017. The usage of electronic nose in food industry. In: *Proceedings of the International Scientific Conference “Veterinary Medicine in Service of People”*, 6-7 October 2017, Stara Zagora, Bulgaria

This presentation was aimed to mention the working principles, usage areas and advantages of electronic nose used for food control. Electronic noses based on the biological model work in a similar manner, albeit substituting sensors for the receptors, and transmitting the signal to a program for processing, rather than to the brain. Electronic noses were originally used for quality control applications in the food, beverage and cosmetics industries. An electronic nose is a device that identifies the specific components of an odour and analyses the chemical detection. Nowadays the electronic noses have provided a plethora of benefits to a variety of commercial industries, including the agricultural, biomedical, cosmetics, environmental, food, manufacturing, military, pharmaceutical, regulatory, and various scientific research fields.

Key words: : electronic nose, food industry, quality control