

**NATIONAL RESEARCH-DEVELOPMENT INSTITUTE FOR BIOLOGY
AND ANIMAL NUTRITION**

29th September 2023

IBNA Headquarters, Balotesti

17th International Symposium of Biology and Animal Nutrition

Symposium Program

08.00 - 8.30 REGISTRATION

08.30 - 9.00 WELCOME (Prof Dr. Horia Grosu, Dr. Catalin Dragomir)

09.00 - 10.15 FIRST SESSION OF SCIENTIFIC COMMUNICATIONS

(Moderators: Yusuf Konka, Catalin Dragomir)

09.00 - 09.15

Evaluation of hemp cake (*Cannabis sativa*) and other hemp by-products of Greek origin and efficacy in dairy cow nutrition

Konstantinos Kalaitidis, Zoi Parissi, Alexandros Theodoridis, Eleni Tsaliki, Konstantina Vasilopoulou, Stella Dokou, Diamanto Lazari, Georgios Valergakis, Maniati Marina, Giannenas Ilias

09.15 - 09.30

Effects of butyrate supplementation to laying hen diets on performance and immunity

Yusuf Konca

09.30 - 09.45

Bioaccessibility of phytochemicals from blackcurrant (*Ribes nigrum* L.) by-products during in vitro digestion and the antioxidant potential evaluation on counteracting the in vitro induced lipid peroxidation

Arabela Untea, Alexandra Oancea, Vlaicu Alexandru, Varzaru Iulia, Saracila Mihaela

09.45 - 10.00

Association of oregano, garlic, rock sapphire and *Camelina sativa* essential oils, used as feed additives in pigs' diet, with the fecal microbiota

Konstantina Nikolaou, Ioannis Skoufos, Chrysoula Voidarou, Aikaterini Nelli, Konstantina Fotou, Eleftherios Bonos, Ilias Giannenas, Katerina Gregoriadou, Evangelia Gouva, Georgios Magklaras, Christos Zacharis, Achilleas Karamoutsios, Tariq Aziz, Caglar Ersanli and Athina Tzora

10.00 - 10.15

First assessments of the carbon footprint of sheep farms in Romania -preliminary results

Throude Sindy, Catalin Dragomir, Mihail Alexandru Gras

10.15 - 10.45 COFFEE BREAK

10.45 - 12.00 SECOND SESSION OF SCIENTIFIC COMMUNICATIONS

(Moderators: Radovan Kasarda, Horia Grosu)

10.45 - 11.00

Genetic makeup and diversity of Slovak Warmblood horse

Radovan Kasarda, Nina Moravčíková, Juraj Candrák, Marko Halo

11.00 - 11.15

Simulated effect of a composite reproductive technology (MOET) on genetic progress of the cattle population

Mihail Alexandru Gras, Cătălin Mircea Rotar, Horia Grosu, Rodica Stefania Pelmus, Cristina Lazar

11.15 - 11.30

Interest molecular markers for meat and reproduction in Teleorman Black Head ewes

Cristina Lazăr (Van), Mihail Alexandru Gras, Cătălin Mircea Rotar, Rodica Stefania Pelmuș

11.30 - 11.45

Estimation the genetic parameters for age at first calving in Charolais and Limousine breeds

Rodica Pelmus, Horia Grosu, Cătălin Mircea Rotar, Cristina Lazăr (Van), Mihail Alexandru Gras

11.45 - 12.00

Digitization of agriculture – a tool for increasing the efficiency

Camelia Ionescu

12.00 - 13.15 LUNCH BREAK

13.15 - 15.15 THIRD SESSION OF SCIENTIFIC COMMUNICATIONS

(Moderators: Ilias Giannenas, Ionelia Taranu)

13.15 – 13.30

Effect of two different *Tenebrio molitor* insect meals on performance of finishing pigs

Christos Zacharis, Eleftherios Bonos, Georgios Magklaras, Aikaterini Nelli, Konstantina Fotou, Konstantina Nikolaou, Chrysoula (Chrysa) Voidarou, Anastasios Tsinas, Ilias Giannenas, Efthimia Antonopoulou, Stefanos Andreadis, Christos Athanasiou, Athina Tzora, Ioannis Skoufos.

13.30 - 13.45

Effects of a low zearalenone concentration exposure on piglet microbiota

Iulian Alexandru Grosu, Cristina Valeria Bulgaru, Gina Cecilia Pistol, Daniela Eliza Marin and Ionelia Taranu

13.45 - 14.00

The antioxidant effects of grape seed meal by-product in LPS-treated IPEC-1 cells and DSS- challenged post-weaning piglets

Gina Cecilia Pistol, Daniela Eliza Marin, Cristina Valeria Bulgaru, Andrei Cristian Anghel, Mihaela Sărăcilă, Mihaela Vlassa, Miuta Filip, Ionelia Taranu

14.00 - 14.15

Comparative study on phytochemical profiles and antioxidant capacity of black elder (*Sambucus nigra* L.), produced in different geographic area in Romania

Vlaicu Alexandru, Untea Arabela, Saracila Mihaela, Varzaru Iulia, Oancea Alexandra

14.15 - 14.30

Physico-chemical, thermal and spectroscopic complex characterization of some vegetable waste, potentially used as animal feed

Mihaela Vlassa, Filip Miuta

14.30 - 14.45

Alternative protein sources to soybean meal in swine diets

Gabriela Maria Cornescu, Tatiana Dumitra Panaite, Mara-Ioana Munțiu-Rusu, Cristina Camelia Matache, Ana Cișmileanu

14.45 - 15.00

Screening of selected berries leaves for bioactive components and their related antioxidant activities

Varzaru Iulia, Untea Arabela, Saracila Mihaela, Oancea Alexandra, Vlaicu Alexandru

15.00 - 15.15

Influence of feeding dietary hempseed and linseed on milk characteristics of goats Murciano-Granadina

Ana Cișmileanu, Alexandra Oprea Oancea, Catalin Dragomir, Smaranda Toma

15.15 - 15.30 *BREAK*

15.30 - 17.15 *FOURTH SESSION OF SCIENTIFIC COMMUNICATIONS (Young Researchers Session)* (Moderators: Daniela Marin, Arabela Untea)

15.30 - 15.45

Potential use of co and by products of black chokeberry (*Aronia Melancarpa*) as source of antioxidant in animal nutrition

Saracila Mihaela, Varzaru Iulia, Oancea Alexandra, Vlaicu Alexandru, Untea Arabela

15.45 – 16.00

Effects of roughage level and source on performance parameters and meat characteristics of limousine feedlot cattle

St. Dokou, I. Giannenas, E. Bonos, G. Arsenos

16.00 - 16.15

Optimizing microwave-assisted extraction of polyphenols from mustard seed meal

Anghel Andrei Cristian, Tăranu Ionelia, Alina Orțan

16.15 - 16.30

Diet replacement with whole insect larvae affects ileal morphology and microflora of broiler chickens

Stylianos Vasilopoulos, Ilias Giannenas, Ifigeneia Mellidou, Ioanna Stylianaki; Efthimia Antonopoulou; Athina Tzora; Ioannis Skoufos; Christos G. Athanassiou; Elias Papadopoulos; Paschalis Fortomaris

16.30 - 16.45

Dietary effect of microencapsulated probiotics on growth performances, health status, intestinal morphology and microflora in weaning piglets

Nicoleta Aurelia Lefter, Georgeta Ciurescu, Mihaela Dumitru, Petru Alexandru Vlaicu, Anca Gheorghe, Claudiu Gal

16.45 – 17.00

Exploitation of local agricultural byproducts and formulation of isoproteinic diets for *Tenebrio molitor* (Coleoptera: Tenebrionidae) rearing

M. Vrontaki, C. Adamaki-Sotiraki, C.I. Rumbos, A. Anastasiadis, C.G. Athanassiou

17.00 - 17.15

The effects of including linseeds and mustard seeds in goats' diets on various milk quality parameters

Oancea Alexandra, Vlaicu Alexandru, Vărzaru Iulia, Sărăcila Mihaela, Untea Arabela, Dragomir Catalin

17.15- 17.30

Some Carcass Quality Characteristics of Anatolian Buffaloes

Aisha Ali Ahmed, Yusuf Konca

17.30 - 17.45

FINAL DISCUSSION AND PERSPECTIVES

17.45

FAREWELL COCKTAIL

POSTER PRESENTATIONS

Study of some bioactive compounds in fodder for animal feed

Miuta Filip, Mihaela Vlassa, Ionelia Tăranu, Daniela Marin, Catalin Dragomir

Ex-vivo studies on the effects of Alternaria toxins on the inflammatory response at the porcine intestinal level

Valeria Cristina Bulgaru, Ana Maria Perțea, Ionelia Tăranu, Daniela Eliza Marin

The role of alternariol in the apoptotic process at the gut level in pigs

Ana-Maria Perțea, Cristina Valeria Bulgaru, Gina Cecilia Pistol, Ionelia Taranu and Daniela Eliza Marin

Sorghum grain in broiler's diet: Effects on growth performance, blood biochemistry, and meat quality

Georgeta Ciurescu, Andreea Vasilachi, Lavinia Idriceanu, Dumitru Mihaela

Exploring the probiotic potential of lactic acid bacteria and microencapsulation of selected strains by spray drying process

Mihaela Dumitru, Nicoleta Aurelia Lefter, Georgeta Ciurescu

Lentil seeds as protein alternative on poultry nutrition

Tatiana Dumitra Panaite, Ana Cișmileanu, Gabriela Maria Cornescu, Mara-Ioana Munțiu-Rusu, Andreea Vasilache, Cristina Camelia Matache

Metabolomic and toxicity prediction of alternariol using in silico approaches

Daniela Eliza Marin and Ionelia Taranu

Using intestinal explant culture to evaluate the effect of apple pomace on inflammation and oxidative stress in piglets after weaning

Ionelia Taranu, Gina Pistol, Cristina Bulgaru, Iulian Grosu, Daniela Marin

Screening of the chemical composition of sea buckthorn pomace as a by-product intended for animal nutrition

Mihaela Saracila, Arabela Untea, Iulia Varzaru, Petru Alexandru Vlaicu, Alexandra Oprea-Oancea

The effects of mulberry leaves on the nutritional quality profile of laying hens's egg

Mara-Ioana Munțiu-Rusu, Tatiana Dumitra Panaite, Cornescu Gabriela Maria, Camelia Cristina Matache, Mariana Ropotă, Arabela Elena Untea

Yolk color intensification using marigold and paprika extract

Camelia-Cristina Matache, Tatiana Dumitra Panaite, Gabriela-Maria Cornescu, Mara-Ioana Muntiu-Rusu, Arabela Elena Untea

Nutritional potential of cowpea seeds as future protein supply to partially replace soybeanmeal in the poultry diet

Mădălin Manole, Georgeta Ciurescu

Optimization of Probiotic Viability via Freeze-Dried Encapsulation with differentcryoprotectants

Dan Rambu, Mihaela Dumitru