

# Overview of all the posters at EPC2014



## XIVth European POULTRY CONFERENCE

Stavanger, Norway 23. – 27. June 2014

General information: The *code number in the title refers to the number on the wall where the poster will be on display. All poster will be displayed during the whole conference. Poster presenters have been asked to be present at their poster on Tuesday, Wednesday and Thursday from 14.00 to 14.30.*

### **P1 Effect of *Pediococcus acidilactici* supplementation through drinking water on immune response and *E. coli* infection, in layer hens**

M. Awaad<sup>1</sup>, A. Atta<sup>2</sup>, S.A. Zoulfekar<sup>1</sup>, A. El-Sawey<sup>3</sup>, H.B. Gharib<sup>2</sup>, M. Elmenawy<sup>3</sup>, A.A. Nada<sup>3</sup>, V. Demey<sup>4</sup>

*1Faculty of Veterinary Medicine; Cairo University, Egypt. 2Faculty of Agriculture, Cairo university, Egypt. 3Animal Health Research Institute, Dokki, Egypt. 4Lallemand SAS, Blagnac, France.*

### **P2 Intensity of development in chicken embryos and their use in biochemical industry**

V. Fisinin, E. Tyapugin

*All-Russian Poultry Research Institute, Sergiev Posad, Russia*

### **P3 Molecular characterization and genomic quantitation using real-time RT-PCR of a nephropatogenic strain of avian infectious bronchitis virus**

B.M. Santos<sup>1</sup>, N.R. da Silva Martins<sup>2</sup>, C.F. Fidélis<sup>1</sup>, A.L. Pereira<sup>1</sup>, C.G. Pereira<sup>1</sup>, S. de Freitas Wanderley Vaaladares<sup>1</sup>

*1Federal University of Vicosa, Vicosa, Brazil. 2Federal University of Minas Gerais, Belo Horizonte, Brazil*

### **P4 Antigenic properties of the LA SOTA and VG/GA strains of the Newcastle disease virus**

B.M. Santos, S. de Freitas Wanderley Valadares, C.G. Pereira, M.I.A. Realpe

*Federal University of Vicosa, Vicosa, Brazil*

**P5 First report on plasmid-mediated Quinolone resistance gene qnrS in enterobacteriaceae of poultry origin in Algeria**

K. Benameur<sup>1</sup>, M.-H. Ben-Mahdi<sup>2</sup>, F. Assaous<sup>3</sup>, K. Rahal<sup>3</sup>

*1All-Russian Poultry Research and Technology Institute, Sergiev Posad, Russian Federation.*

*2Research Laboratory of Animal Health and Productions, National High Veterinary School, Algiers, Algeria.*

*3Medical Bacterial Department, Pasteur Institute of Algeria, Algiers, Algeria.*

**P6 Effect of bursa of Fabricius on the blood leukogram in broilers**

O. Bennoune<sup>1</sup>, M. Melizi<sup>1</sup>, K. Khazal<sup>2</sup>, R. Bourouba<sup>3</sup>, A. Ayachi<sup>1</sup>

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*2School of veterinary medicine, Tuskegee University, Tuskegee Alabama, AL 36088, USA.*

*3Department of Biology, University of Batna, Algeria*

**P7 Comparative analysis of the immunogenicity and immunosuppressive effects of six IBD live vaccine strains in commercial broiler chickens**

M.I. Gracia<sup>1</sup>, C. Millán<sup>1</sup>, O. Casabuena<sup>1</sup>, J. Sánchez<sup>1</sup>, A. Quiles<sup>2</sup>

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*2Departamento de Producción Animal, Universidad de Murcia, Spain*

**P8 Effects of probiotics on performance parameters and intestinal lesions of commercial broiler chickens undergoing an Eimeria infection**

W. Abdelrahman<sup>1,2</sup>, M. Mohnl<sup>1</sup>, M.M. Ritzi<sup>3</sup>, R.A. Dalloul<sup>3</sup>

*1BIOMIN Holding GmbH, Herzogenburg, Austria.*

*2Faculty of Veterinary Medicine, Suez Canal University, Ismailia, Egypt.*

*3Avian Immunobiology Lab, Animal & Poultry Sciences, Virginia Tech, Blacksburg, USA*

**P9 Dose-dependent effect of a natural growth promoter in reducing Salmonella Enteritidis colonization in White Leghorn SPF chickens**

A. Kovács<sup>1</sup>, R. Breitsma<sup>1</sup>, L. Vandi<sup>1</sup>, P. Massi<sup>2</sup>, G. Tosi<sup>2</sup>

*Biomim Holding GmbH, Herzogenburg, Austria*

**P10 Effects of distillers dried grains with solubles (DDGS) on necrotic enteritis development in broiler chickens**

K. Macklin, L. Olivia, W. Dozier

*Auburn University, Auburn, USA*

**P11 Monitoring of the backyard poultry population reveals a prevalence of chlamydiae**

E. Prukner-Radovicic, D. Horvatek Tomic, M. Lukac, Z. Gottstein

*Faculty of Veterinary Medicine, University of Zagreb, Heinzelova 55, 10 000 Zagreb, Croatia*

**P12 Epidemiological investigations into an outbreak of pullorum disease in hobby flocks**

H. Eriksson<sup>1</sup>, R. Söderlund<sup>2</sup>, A. Linder<sup>2</sup>, L. Ernholm<sup>1</sup>, J. Danielsson<sup>3</sup>, D.S. Jansson<sup>1</sup>  
*1National Veterinary Institute, Uppsala, Sweden. 2Eurofins, Skara, Sweden. 3Swedish Board of Agriculture, Jönköping, Sweden*

**P13 Efficacy of butyric acid glycerides and glycerol monolaurate to combat bacterial enteritis problems in broilers**

M. De Gussem<sup>1</sup>, H. van Meirhaeghe<sup>1</sup>, T. Rogge<sup>2</sup>, J. Roelandt<sup>2</sup>, J. de Gussem<sup>3</sup>  
*1Vetworks, Poeke, Belgium. 2Proviron, Oostende, Belgium. 3Poulpharm, Izegem, Belgium*

**P14 Influence of MaxiPullet™ on the performance and health of Isa Brown pullets**

C. Hamelin<sup>1</sup>, R. Lopez-Ulibarri<sup>2</sup>  
*1DSM Nutritional Products Europe, 19 avenue Dubonnet, 92400 Courbevoie, France. 2DSM Nutritional Products, Animal Nutrition & Health - Innovation, P.O. Box 2676, 4002 Basel Switzerland*

**P15 A novel, resin-based dietary ingredient reduces the risk of necrotic enteritis in turkeys**

H. Kettunen<sup>1</sup>, J. Apajalahti<sup>1</sup>, E. Valkonen<sup>2</sup>, T. Rinttilä<sup>1</sup>, H. Grönberg<sup>1</sup>, J. Vuorenmaa<sup>2</sup>  
*1Alimetrics Ltd., Espoo, Finland. 2Hankkija Ltd., Hyvinkää, Finland*

**P16 In vitro bactericide effect of Bacillus amyloliquefaciens**

A. Ortiz<sup>1</sup>, E. Mateu<sup>2</sup>, P. Honrubia<sup>3</sup>, J.J. Mallo<sup>3</sup>  
*1NOREL S.A. 2LVDMI-UAB, Barcelona, Spain. 3NOREL S.A. Madrid, Spain*

**P17 Influence of feed structure (grinding intensity, further compaction) on morphological and histological traits of the proventriculus in chicken**

S.J. Sander<sup>1</sup>, M. Witte<sup>1</sup>, B. Üffing<sup>1</sup>, A. Beineke<sup>2</sup>, J. Kamphues<sup>1</sup>  
*1Institute for Animal Nutrition, University of Veterinary Medicine Hannover, Germany. 2Institute of Pathology, University of Veterinary Medicine Hannover, Germany*

**P18 Narasin: Its role in poultry health**

M. Bentué<sup>1</sup>, T. Jeffers<sup>2</sup>  
*1Elanco Animal Health, United Kingdom and Ireland. 2Cornell University, Ithaca, USA*

**P19 Variant infectious Bronchitis strains in the Middle East**

H. Bakri, P. Kuhne<sup>2</sup>, E. Al-Hallaq<sup>3</sup>  
*1MSD-Animal Health, Dubai, UAE. 2MSD-Animal Health,Boxmeer, Netherland. 3MSD-Animal Health, Jordan, Regional Service Lab*

**P20 Routine automated workflow for rapid and standardized detection of viral and bacterial pathogens by real-time (RT-)PCR**

M. Liman, J. Block, D. Wolking, K.P. Behr

*AniCon Labor GmbH, Hoeltinghausen, Germany*

**P21 Evaluation of the efficacy of LC-75 vaccine strain administered orally in broiler chickens at different breakthrough titers**

M. Castells, F. Ponsa, S. Mahajan

*Lohmann Animal Health, Cuxhaven. Germany*

**P22 Feeding laying hens the diets with supplemental chelated trace minerals improves immune response, shell quality and tibia breaking strength**

M. Decoux, M. K. Manangi, B. Wuelling, C. Atwell, P. Fisher, C.D. Knight, M. Vazquez-Anon

*Novus International Inc.*

**P23 The effect of protected aromatic compounds on the performance of broilers challenged with Salmonella Enteritidis and on ileal lactic acid microflora**

F. Boroojeni<sup>1</sup>, J. Zentek<sup>1</sup>, Y.Shahbaz<sup>2</sup>, H. M. Hafez<sup>1</sup>, K. Männer<sup>1</sup>, W. Vahjen<sup>1</sup>, H. Ur-Rehman<sup>1</sup>

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**P24 Pathogenicity of three strains of commercial intermediate type live IBD vaccine virus in two commercial broiler strains**

H.H. Myint, Y.H. Aung, Saw Po Po

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**P25 Antibody response to three strains of infectious Bursal disease vaccine virus in two commercial broiler strains**

H.H. Myint<sup>1</sup>, Y.H. Aung<sup>2</sup>, S. Rautenschlein<sup>3</sup>, A.T. Khaing<sup>4</sup>

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**P26 Serological evidence of avian metapneumovirus infection in commercial broilers from three regions of Myanmar**

Y.H. Aung<sup>1</sup>, N. Htun<sup>2</sup>, H.H. Myint<sup>1</sup>, O. Myint<sup>1</sup>

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**P27 In vitro functional evaluation of different TLR agonists on leukocytic cells from broiler chickens**

D. Chaudhary, T.K. Goswami, M. Singh, R.N. Trivedi, G.C. Ram  
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**P28 *Codyceps militaris* and an organic acids blend inhibit mortality due to acute salmonellosis in laying hens – a pilot study**

D.O. Akinde<sup>1</sup>, S.C. Etop<sup>2</sup>, O.G. Olasemi<sup>3</sup>  
*1Nutrition Biotech Group, Fusion Biosystems, Lohne, NS, Germany. 2Department of Animal Science, University of Ibadan, Nigeria. 3Technical Management, Fusion Biosystems Nigeria Limited, Lagos, Nigeria*

**P29 Studies on avian pathogenic *Escherichia coli* in commercial broiler chickens in Southeast Queensland**

L. Awawdeh<sup>1</sup>, C. Turni<sup>2</sup>, J.Henning<sup>1</sup>, R.Allavena<sup>1</sup>, J. Platell<sup>3</sup>, R. Cobbold<sup>1</sup>, P. Blackall<sup>2</sup>, J. Gibson<sup>1</sup>  
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**P30 Prevention of muscovy ducks against Parvoviruses by vaccination**

I.D. Devaud<sup>1</sup>, S. Lemiere<sup>2</sup>, J.B. HERIN<sup>1</sup>, F.X. Le-Gros<sup>3</sup>  
*1Merial S.A.S. 44150 Ancenis France. 2Merial S.A.S. 69007 Lyon France. 3Merial R&D 69007 Lyon France*

**P31 Effects of cold extracts of *Vitellaria paradoxa* bark on the performance, histology and serum biochemistry of *Aspergillus*-challenged broiler chicks**

S.A. Bolu, A.F. Atitebi, A. Mary, O.Victor  
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**P32 MSD Vaccines used in intensive pheasants farms and other preventive treatments**

E. Avram<sup>1</sup>, N. Avram<sup>2</sup>, M. Tache<sup>3</sup>, V. Nesterov<sup>2</sup>  
*1Avian Pathology Clinic, Veterinary Medicine Faculty „Spiru Haret” University, Bucharest, Romania. 2Bucharest, Romania. 3Ghimpati, Romania*

**P33 Utilization of egg by rural women in Ibarapa Central Local Government area of Oyo State, Nigeria**

F.C. Nworgu, M.O. Wilson Imiere, H.O. Ezekiel  
*Oyo State College of Agriculture, Igboora. P.M.B. 10, Igboora, Oyo State, Nigeria.*

**P34 Production and economic traits of broiler farming under bio-secured & non bio-secured conditions in different locations of Bangladesh**

A. Younus<sup>1</sup>, S.S. Jahan<sup>1</sup>, S. Akter<sup>2</sup>

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**P35 Insurance and poultry farming in Algeria "heatwave case"**

N. Cherifi<sup>1</sup>, L. Mezali<sup>2</sup>, F. Mebkhout<sup>3</sup>, S. Zenia<sup>2</sup>, F. Chehat<sup>4</sup>

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**P36 Strategy of development of poultry industry in Russian Federation.**

S. Cherepanov<sup>1</sup>, V. Fisinin<sup>2</sup>

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**P37 Influence of LED lighting on productivity in laying hens**

A. Kavtarashvili, D. Gladin, E. Novotorov, L. Korshunova

*All-Russian Poultry Research and Technological Institute, Russian Academy of Agricultural Sciences, Sergiev Posad, Russia*

**P38 Effect of duration and multiplicity of photoperiods alteration during a photosensitive phase on egg quality**

V. Fisinin, A. Kavtarashvili, L. Korshunova

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**P39 Consideration on the evolution of quality of hen eggs during long storage**

R.N. Ratu, A. Usturoi, M.G. Usturoi

*Ion Ionescu de la Brad University of Agricultural Sciences and Veterinary Medicine from Iasi, Romania*

**P40 Color stability of different yellow carotenoid products in fresh and boiled eggs**

M. Umar Faruk<sup>1</sup>, R. Aureli<sup>1</sup>, P. Jenn<sup>1</sup>, J. Schierle<sup>2</sup>, F. Cisneros<sup>2</sup>

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**P41 The pigmenting efficiency of two different yellow carotenoid products in egg yolk**

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**P42 Functional properties of conventional and organic eggs**

M. Grashorn, S. Ateba

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**P43 Egg quality assessment during storage at ambient conditions**

J.A. Moreno<sup>1</sup>, M. Tor<sup>1</sup>, R. Blanco<sup>2</sup>, E. Angulo<sup>1</sup>, C. Nogareda<sup>1</sup>

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**P45 Identification of eggshell matrix proteins involved in the mineralization of eggshell mammillary layer.**

S. Smiley, M. Rose-Martel, M. T. Hincke

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**P46 Extended laying cycle of laying hens: current situation in Belgium**

A. Molnar<sup>1</sup>, E. Delezie<sup>1</sup>, L. Maertens<sup>1</sup>, J. Zoons<sup>2</sup>, J. Buyse<sup>3</sup>

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**P47 Temperature effects on physical and chemical properties of shell eggs**

Y. Qin<sup>1</sup>, Y. Liu<sup>1</sup>, J. Zheng<sup>1</sup>, Z. Yuan<sup>2</sup>, B. Li<sup>1</sup>, N. Yang<sup>1,2</sup>, G. Xu<sup>1,2</sup>

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**P48 Criteria of assessment of “vaccine eggs” quality.**

S. Cherepanov, M. Lapa, O. Stanishevskaya

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**P49 The effect of strain and age of brown-egg laying hens on egg quality traits**

L. Zita<sup>1</sup>, Z. Ledvinka<sup>1</sup>, M. Tyller<sup>2</sup>, L. Klesalová, P. Dobrovolný<sup>3</sup>, M. Hruška<sup>4</sup>, H. Tyllerová<sup>2</sup>

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**P50 Effect of the dietary fenugreek (*Trigonella foenum-graecum*), used as antioxidant in layer diets, on the nutritional quality of the eggs**

T.D. Panaite<sup>1</sup>, I. Varzaru<sup>2</sup>, R.D. Criste<sup>1</sup>, C. Papuc<sup>3</sup>, G.M. Cornescu<sup>2</sup>, M. Ropota<sup>1</sup>, C. Durdun<sup>3</sup>

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**P51 Study concerning the effects of using organic trace mineral supplements (Mn and Zn) on egg quality**

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**P52 Application of programmed nutrition strategy on egg quality**

R. Delles, M. van Benschoten, M. Ford, A. Cantor, A. Pescatore, T. Ao, Ryan Samuel

*Alltech-University of Kentucky Nutrition Research Alliance, Lexington, USA*

**P53 Comparison of two selenium additives on selenium content and egg quality parameters in laying hen**

M. Erdelyi<sup>1</sup>, Z. Ancsin<sup>1</sup>, K. Balogh<sup>1</sup>, A. Sztrik<sup>2</sup>, J. Prokish<sup>2</sup>, M. Mezes<sup>1</sup>

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**P54 The effect of dietary grape pomace supplementation on performance and egg quality traits of laying hens**

M. Koidou<sup>1</sup>, E.N. Sossidou, V.D. Dotas<sup>1</sup>, G.Samouris<sup>2</sup>, M.Ioannidou<sup>2</sup>, E. Kasapidou<sup>3</sup>, P.Mitliaga<sup>3</sup>, D. Dotas<sup>1</sup>

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**P55 Performance and egg quality of laying hens fed diets with fish oil and/or soy lecithin**

E. Sossidou<sup>1</sup>, V.Dotas<sup>2</sup>, A.Malouis<sup>2</sup>, N.S. Yiğiter<sup>3</sup>, S.Yalcin<sup>3</sup>, D. Dotas<sup>2</sup>

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**P56 Transcriptome analysis of chicken uterus in associated with eggshell calcification**

Q. Zhang, Z.C. Hou

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**P57 Temperature training in late-term quail embryos has transgenerational effects**

B. Tzschentke<sup>1</sup>, I. Halle<sup>2</sup>, M. Nassar<sup>3</sup>

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**P58 Assessment of lead exposure through the consumption of chicken meat in and around Proddatur region of Andhra Pradesh in India.**

A.K. Chitithoti, A.R. Mekapogu, R.B.N. Bonath

**P59 Characterizing development pattern of retina and extra retinal photoreceptors in broilers following in-ovo and post hatch photo stimulation with green**

D. Medina

*The hebrew university of jerusalem The Robert H. Smith faculty of agriculture food and environment Rehovot Israel*

**P60 Intensity of nitrogen monoxide (NO) metabolism in poultry embryo as an important selection criteria.**

V. Titov<sup>1</sup>, O. Kosyenko<sup>1</sup>, V. Lukashenko<sup>1</sup>, A. Sevastyanova<sup>1</sup>, G. Kondratov<sup>2</sup>, Yelena Borkhunova<sup>2</sup>

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**P61 Transgenic quail on bovine growth hormone gene**

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**P62 The usage of gene modifiers in selection of new forms of color- and feather-sex poul**

Y. Royter, A. Egorova, L. Korshunova

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**P63 Pedigreed based selection for higher three week body weight and its effect on subsequent production performance in breeder quail**

J. Hussain<sup>1</sup>, M. Akram<sup>1</sup>, K. Javed<sup>1</sup>, A.W. Sahota<sup>1</sup>, A.S. Jatoi<sup>2</sup>, U. Farooq<sup>3</sup>, M. H. Jaspal<sup>1</sup>, S. Ahmad<sup>1</sup>, S. Mehmood<sup>1</sup>, A. Rehman<sup>1</sup>, H.A. Ahmad<sup>4</sup>

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**P64 Pedigree based selection for higher three week body weight in Japanese quails and its effect on hatching traits**

J. Hussain, M. Akram, K. Javed<sup>1</sup>, A.W. Sahota<sup>1</sup>, A. S. Jatoi<sup>2</sup>, U. Farooq<sup>3</sup>, M.H. Jaspal<sup>1</sup>, S. Ahmad<sup>1</sup>, S. Mehmood<sup>1</sup>, A. Rehman, H.A. Ahmad<sup>4</sup>

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**P65 Intensity of development in chicken embryos as a criterion in selection**

E. Tyapugin, V. Fisinin

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**P66 Analysis for monitoring the dynamic conservation of six long-term conserved chicken populations**

C.-F. Chen, T.-C. Tu, Y.-P. Lee

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**P67 Model and demonstration project – cryopreserve of the chicken**

M. Fellmin<sup>1</sup>, S. Weigend<sup>3</sup>, M. Elsässer<sup>1,2</sup>, M. Henning<sup>3</sup>, C. Ehling<sup>3</sup>, I. Tiemann<sup>1,2</sup>

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**P68 Identification of genes related to beak deformity in Beijing-You chickens using digital gene expression profiling**

J. Zhu, H. Bai, R. Liu, Y. Sun, J. Wen

*The Key Laboratory for Farm Animal Genetic Resources and Utilization of Ministry of Agriculture of China, Institute of Animal Science, Chinese Academy of Agricultural Sciences, Beijing 100193, China.*

**P69 Age effect on liver transcriptome in chicken lines selected for residual feed consumption**

T. Zerjal<sup>1</sup>, S. Lagarrigue<sup>2</sup>, F. Jaffrézic<sup>1</sup>, M. Moroldo<sup>1</sup>, D. Laloë<sup>1</sup>, A. Rau<sup>1</sup>

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**P70 Molecular characterization of avian infectious bronchitis virus strain 28/86 isolated in Italy**

C. Sabelli, R. Lazzari

*IZO s.r.l. a socio unico - Brescia (Italy)*

**P71 Identification of sequence changes in an IBV D274 strain after serial passages in embryos**

C. Sabelli, R. Lazzari

*IZO s.r.l. a socio unico - Brescia (Italy)*

**P72 gga-miR-181a and its target MYBL1 were implicated in Marek's disease lymphoma transformation**

L. Lian, L. Lian, X. Li, C. Zhao, L. Qu, N. Yang

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**P73 Microsatellite profiling between diversified breeds: indigenous Kadaknath and commercial White Leghorn for the genetic diversity**

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**P74 The relationship between single nucleotide polymorphism of Major Histocompatibility Complex class II (MHC class II) gene and the bodyweight in Thai indigenous chicken**

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**P75 Overall assesement of domestic duck variety at Vietnam**

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**P76 Conservation and validation of parent of BLRI layer-1**

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**P77 Housing system influences abundance of Pax3 and Pax7 in postnatal chicken skeletal muscles**

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**P78 Global expression profile microarray analysis of brown eggshell pigment formation process**

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**P79 The transcriptional landscape of natural developmental magnum in chickens**

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**P80 Effect of graded levels of wild cocoyam (*Caladium bicolor*) on the performance and carcass characteristics of cockerel bird**

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**P81 Influence of probiotics on meat quality of broilers**

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**P82 Effect of EU recommended electrical stunning conditions on breast meat quality of broiler chickens**

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**P83 Nutritional and technological quality of Brianzolo chicken meat.**

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**P84 Protein and lipid oxidation during frozen storage and subsequent cooking of chicken patties**

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**P85 Chemical composition, cooking, physical and sensorial properties of chicken meatball fortified with eggshell calcium powder**

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**P86 Dietary histidine level alters contents of carnosine and anserine in muscle of broiler chicken.**

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**P87 The effect of cooking temperature on the quality of sausage with unsaturated fats emulsion addition and processed with vacuum frying technology**

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**P88 Implications of wooden breast defect on technological properties of chicken breast fillets**

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**P89 The impact of different shot distance used for pheasant hunting on hygienic quality of the meat**

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**P90 The impact of short shot-distance on the shelf-life of the pheasant meat**

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**P91 Comparison of carcass and meat quality and muscle morphology of conventional and organic broilers with similar market weights**

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**P92 Susceptible phytic acid content of common feed ingredients fed to poultry**

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**P93 Mineral availability of wheat and maize based diets with and without essential oils supplementation when fed to broiler chickens**

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**P94 Using microalgae in layer diet to create functional, DHA-enriched eggs**

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**P95 Effects of dietary *Abelmoschus esculentus* leaf meal on laying hens performance and egg quality indices**

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**P96 Effect of alcohol derived yeast protein concentrate in broiler chick diets on pellet quality, bird performance and bone mineralisation.**

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**P97 Effect of *Pediococcus acidilactici* on organic laying hens performances**

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**P98 Quantitative assessment of copper proteinates using ATR-FTIR spectroscopy**

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**P99 The effect of a programmed nutrition strategy on myostatin (MSTN/GDF8) mRNA levels and microRNA 27a in muscle of broiler chicks.**

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**P100 Effect of temperature stimulation during last days of incubation and protein-energy concentration in feed on performance of laying-type cockerels**

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**P101 Usage Lupine in feeding high-productive poultry**

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**P102 Application of L-aspartic acid salts in laying hen diets**

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**P103 Effects of dietary supplemental Rosehip (Rosa canina L.) on carcass traits and some blood parameters of broilers**

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**P104 Effect of adding lactose in drinking water on the performance, meat quality and blood parameters of broiler chickens**

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**P105 Effects of sub-optimal and optimal rations supplemented with waterleaf (Talinum triangulare) tops on egg quality indices of laying hens**

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**P106 Influence of 00-rapeseed cake on broilers productivity and on the thyroid gland condition**

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**P107 Lysine sulphate in broiler diets**

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**P108 Effect of different levels of rapeseed meal or sunflower meal and enzyme combination on the performance of broiler chickens fed wheat-based diets**

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**P109 A comparative study on the mode of administration of carotenoids in broiler chicken**

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**P110 Dietary yeast cell wall supplementation affects bacterial community structure in production broilers.**

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**P111 Effects of yeast cell wall supplementation on bacterial community functionality in the broiler caecum.**

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**P112 Influence of Juniper (*Juniperus Communis*) oil on growth performance and meat quality as a natural antioxidant in quail diets**

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**P113 The effect of iron source on the activity of commercially available phytase enzymes**

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**P114 Exogenous melatonin improves growth performance, intestinal microbiota, and morphology in temporarily feed restricted broilers**

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**P115 Performance of broiler chickens fed GalliPro in diets with reduced metabolizable energy**

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**P116 Feeding quality of wheat distillers dried grains with solubles (DDGS) for broiler chickens**

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**P117 A blend of capsicum oleoresin, cinnamaldehyde and carvacrol reduces maintenance requirements and enhances net energy for production in broilers**

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**P118 Nutrient retention and carcass accretion responses of broilers fed high levels of phytase in diets adequate or deficient in non-phytate phosphorus**

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**P119 Effect of L-carnitine on growth performance of broilers fed different sources of oil**

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**P120 Effect of lecithin on growth performance of broilers fed different sources of oil**

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**P121 Safety evaluation of a new herbal form of vitamin D3 for poultries**

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**P122 Effects of phytase supplementation on ileal digestibility of phytate phosphorus and total phosphorus of feedstuffs for broiler chickens**

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**P123 Comparative efficacy of four phytase products on growth performance and apparent ileal digestibility of phosphorus of broiler chickens**

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**P124 Use of near infrared spectroscopy to predict phytate P, total P, and crude protein of common poultry feed ingredients**

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**P126 Effects of phytogenic feed additives on apparent ileal digestibility and growth performance of broilers**

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**P127 Determination of the protein and amino acid digestibility of organically produced cultivars in broiler chicken**

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**P128 Influence of the inclusion of tannase in chicken diets containing grape pomace on performance, oxidative stability and fatty acid composition of meat**

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**P129 Effects of Equifat® inclusion in the broiler chicken diet on the productive and economical performances**

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**P130 Proteomics analysis of a multi-enzyme product and comparison to the production host in silico predicted enzyme secretome**

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**P131 The effect of using chitosan obtained by low degree of deacetylation in laying hen diets**

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**P132 Carotenoid enriched transgenic corn delivers biologically active carotenoids to poultry**

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**P133 Effect of the probiotic Ecobiol in energy reduced diets.**

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**P134 Modelling nutrients requirement based on commercial broiler breeder flocks data**

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**P135 Effect of sodium guconate on growth performance and digestive tract development in broiler chicken**

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**P136 Evidence of bioactivity within the protein fraction of meat and bone meal that benefits broiler growth.**

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**P137 Productive performance and egg quality of laying hens in the late phase of production as influenced by differing organic acids and available phosphorus level**

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**P138 Effects of diets' physical form on the outcome of an artificial Salmonella infection in broiler chickens**

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**P139 The effect of different soybeans on production traits of broilers**

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**P140 Effect of an antistress composition supplied with water on chick growth and development**

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**P141 The effect of feeding different energy containing grower and finisher diets on the production traits and carcass composition of broiler chicks**

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**P142 Particle size in pellets influences broiler growth**

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**P143 Macro mineral concentrations of some commercial poultry feeds produced in Nigeria.**

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**P144 Comparative study on selenium sources bioavailability during early chick's development.**

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**P145 Performance traits and egg composition in genotypes of pure bred laying hens diverging in production efficiency**

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**P146 Seleno-hydroxy-methionine : an efficient source of organic selenium for broilers.**

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**P147 Seleno-hydroxy-methionine as a dietary selenium supplement to improve selenium concentration of table eggs.**

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**P148 Evaluation of protein sources in organic layer nutrition**

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**P149 Effect of a water-soluble antistress composition on broiler chickens**

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**P150 The use of phytase in maize-lupine diets**

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**P151 The use of butyrate and *Saccharomyces cerevisiae* in broiler chickens nutrition with special focus on blood indices**

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**P152 Butyric and other organic acids in the diet of broiler chickens: effects on productivity and caecal VFAs**

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**P153 Comparison the bioavailability of nano and micro manganese in poultry nutrition**

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**P154 Comparative proteomic profiling of commercial selenium yeast products used in poultry diets**

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**P155 Phytase in complete feed for broilers with lowered level of total phosphorous and sodium calcium phosphate (SCP) as a source of phosphorus.**

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**P156 Cellobacterin-T in broiler diets**

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**P157 Influence of organic form of selenium feed additive on the biochemical and morphological indices of liver of laying quails**

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**P158 Effect of dietary lignocellulose on post-peak production and hatching performance of broiler breeders grown under commercial settings**

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**P159 Effects of dietary energy on footpad lesions and growth performance of broilers hatched at different sites**

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**P160 Supplemental insoluble non-starch polysaccharides affect performance and intestinal microflora of broilers**

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**P161 The gut microbiota of broiler chickens receiving probiotic and submitted to antibiotic therapy**

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**P162 Broiler response to dietary *Aspilia africana* leaf**

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**P163 Effects of dietary supplementation of Actigen® and threonine on growth performance and intestinal morphology of broiler chicks**

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**P164 Effect of production line length and water addition on pellet quality in feed mill factories**

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**P165 Performance of broilers fed by diets containing soybeans**

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**P166 Effect of extrusion on the nutritional value of peas for broiler chickens**

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**P167 The effects of different kind of antioxidants (Se, vitamin E and Carotenoids) in broiler diets on broiler performance and immune response**

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**P168 Influence of particle size distribution and compaction of the diet on the ileal digestibility of starch, crude protein and amino acids in broilers**

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**P169 Effect of feeding 100% organic diets including silages and vegetables on production performance in laying hen**

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**P170 Glycerol - an alternative energy source of animal feed**

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**P171 Effect of mannan oligosaccharides (MOS) on broiler performance and blood biochemistry**

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**P172 Amino acids profile and amino acids: lysine ratios with use of L-Valine for male broilers**

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**P173 Effect of a phytogenic feed additive on protein digestibility and nitrogen balance in broiler**

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**P174 Effects of essential oils and Saponins on performance in laying hens**

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**P175 Effect of tomatoes and baker's supplements yeast on Japanese laying hens's performance, egg quality and antioxidative status**

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**P176 Influence of dietary linseed oil and selenium supplementations on productive and reproductive performance of local chicken strain**

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**P177 Effect of certain phytobiotics on meat quality of broiler chicken when DDGS is included in the diet**

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**P178 Improved layer performance by dietary supplementation of a mixture of medium chain fatty acids**

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**P179 Effect of *Pediococcus acidilactici* probiotic on the performances of fattening ducks**

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**P180 Digestible valine with or without L-Val for male broilers**

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**P181 Rapid feed passage: why should we reinterpret the urease activity range in soybean meal?**

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**P182 Betaine has no impact on the energy partitioning in broilers fed sufficient energy and varying methyl levels**

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**P183 In ovo supplementation of water soluble vitamins modulating the expression of growth and immune related genes in broiler chickens**

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**P184 Interaction between dietary  $\beta$ -alanine and valine supplemented to broilers diet**

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**P185 Influence of feeding whole kernel maize silage on microbial composition and gastro-intestinal fermentation in broilers**

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**P186 Protein quality assessment from unconventional feed plants for feeding laying hens**

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**P187 Feeding quality of wheat for broiler chickens**

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**P188 Effect of a Bacillus-based microbial feed additive on turkey performance**

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**P189 Performance evaluation of broiler chickens fed Moringa oleifera leaf meal (MOLM) in tropical environment**

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**P190 Optimization of the nutrient requirement for augmenting the production in brown laying (Dahlem Red) hens**

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**P191 Phytogetic inclusion in maize or wheat diets affects performance, biochemical parameters and total antioxidant activity of plasma and meat in broilers**

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**P192 Effects of feeding three kinds of rice on growth performance, DM and nitrogen retention in broiler chicks**

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**P193 Chromium nanoparticles improve the oxidative stability of meat in Japanese quail under physiological stress**

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**P194 Ileal amino acid digestibility of cereal grains for broiler chickens at different ages**

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**P195 Xylopia aethiopica dried fruits (Grains of Selim) as an additive in starter broiler production**

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**P196 Effect of two different fibre sources on growth and digestive enzyme function in layer pullets**

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**P197 Efficacy of CRINA<sup>®</sup> Poultry Plus on performance and intestinal microbiota**

**in broiler chickens from hatch to 42 days of age**

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**P198 Effect of fermentation duration of Bambara groundnuts (*Vigna subterranea* (L.) Verdc.) on the growth performance of finisher broilers.**

F.H. Defang, N.N. Doris, K.J. Raphaël, F. Ngoula, A. Tegui, J. Tchoumboué<sup>1</sup>, Y. Manjeli

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**P199 Delayed feeding after hatch caused compensatory increase in blood glucose concentration in fed chicks from low but not high body weight lines**

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**P200 Effect of dietary supplementations of caffeine and trans-cinnamaldehyde on performance and carcass characteristics on male broiler chicks under stresses induced by dexamethasone**

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**P201 Effect of dietary supplementations of caffeine and trans-cinnamaldehyde on hematological and hormonal levels on male broiler chicks under stresses induced by dexamethasone**

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**P202 Effect of dietary supplementations of caffeine and trans-cinnamaldehyde on humeral immunity response on male broiler chicks under stresses induced by dexamethasone**

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**P203 Effect of dietary supplementations of caffeine and trans-cinnamaldehyde on blood parameters of male broilers chick under stresses induced by dexamethasone**

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**P204 Comparative study with herbal additives in broiler production**

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**P205 Efficacy of Panbonis® 10 as a replacement for a regular vitamin D3 source in broilers**

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**P206 The effect of dietary protein and energy levels during the growing period of egg-type pullets on late laying performance in arid hot climate**

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**P207 Meta-analysis study of interactions between productive performance and nutritional supplementation with  $\beta$ -mannanase in diets for broiler chickens**

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**P208 Effects of different levels of L-carnitine on carcass characteristics and serum parameters in broiler chickens at 10 days of age**

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**P209 The effects of using different levels of pennyroyal (*Mentha pulegium*) on carcass characteristics and blood parameters in broilers**

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**P210 Effect of different levels of cinnamon in diet on carcass characterize of broiler**

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**P211 Choice feeding broilers: Investigating the interaction between phytase, calcium and phosphorus**

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**P212 Estimated digestible lysine requirements for gain of male broilers in starter period**

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**P213 The joint effects of aflatoxin and T-2 toxin in commercial broilers**

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**P214 Effects of totacid as an acidifier feed supplement in commercial broilers diet**

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**P215 Performance and egg quality of laying hens fed diets with different digestible threonine to lysine ratios**

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**P216 Digestible tryptophan:lysine ratios for maximizing the performance and egg quality of the white-egg laying hens**

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**P217 Influence of acidifier and prebiotic-probiotic-phytogenic feed supplementation on laying hens eggs yield and shell quality traits**

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**P218 Effect of in-ovo injection of glucose and egg white protein on the growth performance and intestinal morphometry of hybrid broiler chicken**

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**P219 The effects of age of two different commercial layer strain on accumulation of carotenoids concentration in the egg yolk**

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**P220 Using natural dietary sources of carotenoids in quail breeder diets**

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**P221 Responses of growing broilers to different anti-mycotoxin agents**

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**P222 The effect of prestarter and diluted starter diet and whole oats in grower diets on the broiler pullets' growth and flock's uniformity**

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**P223 Effects of combining cu-soy proteinate with herbal mixture (Herb Mix) supplementation on performance, and immune response in broilers**

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**P224 Effect of access times to feed and water after hatching on performance, carcass trait, morphology and lesion of intestinal villus in broiler**

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**P225 Rape seeds and faba beans in broiler chicken diets – effects on production performance**

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**P226 Effects of increasing dietary levels of raw full fat soybeans on performance and pancreas weight of broiler chickens**

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**P227 Determining availability of Fe and Zn in chicken meat when fed with mineral improved wheat**

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**P228 The effect of intermittent feeding on performance of broiler chicken and passage rate of diet**

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**P229 Effect of diet structure and feed availability on passage rates and nutrients digestibility**

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**P230 Effect of diet structure and feed restriction on passage rate and nutrients digestibility**

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**P232 Effect of different heat treatments and organic acid levels in feed on the gastrointestinal microbiota in broilers**

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**P233 Development of a yeast cell wall material activity assay**

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**P234 Storage stability of red and yellow carotenoids in poultry premix**

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**P235 Identification of uterine ionic transport proteins involved in providing the mineral material for eggshell formation in hens.**

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**P236 Long-lasting effects of thermal manipulation during embryogenesis on muscle gene expression profile in fast-growing chickens**

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**P237 Eggshell mineralisation: relationship between in situ observations and organic matrix composition**

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**P238 In domestic geese egg weight declines to baseline levels over the laying season**

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**P239 European mycotoxin survey 2013**

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**P240 Genetic architecture of indigenous ducks of Tamil Nadu**

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**P241 The effect of supplementary L-Carnitin on post hatch morbidity and yolk suck of broiler chickens**

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**P242 Possible effect of melanin on immunity in silky fowl**

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**P243 Influences of welfare legislation on system development in processing plants**

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**P244 Antibiotic weaning**

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**P245 Phage and MLVA typing of S. Enteritidis isolated from layers and humans in Belgium from 2000-2010, a period in which vaccination was introduced.**

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**P246 Relationship between the slaughtering hygienic practices and bacterial contamination of poultry carcass in the Biskra Region (Algeria)**

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**P247 Effect of feeding caproic and caprylic as acids or monoglycerides on Campylobacter counts in broilers**

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**P248 AviPro Salmonella Duo, the first bivalent Salmonella live vaccine for chicken, ducks and turkeys**

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**P249 Comparison of fumarate-pyruvate media and beef extract media for aerobically culturing Campylobacter species**

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**P250 Resistance profiles to antibiotics of E.coli producing ESBL and their molecular characterization in the lying farms of Algeria center region.**

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**P251 European Union approaches toward safe poultry meat**

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**P252 Identifying factors affecting safety of broiler chicken carcasses during slaughtering**

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**P253 Associations between Campylobacter-positive flocks and compliance of biosecurity measures given by: Quality assurance in the poultry production (KIK)**

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**P254 Optimization of cleaning and disinfection in broiler houses**

K. Luyckx<sup>1</sup>, S. Van Weyenberg<sup>1</sup>, J. Dewulf<sup>2</sup>, L. Herman<sup>1</sup>, J. Zoons<sup>3</sup>, Ellen Vervaet<sup>3</sup>, M. Heyndrickx<sup>1</sup>, K. De Reu<sup>1</sup>

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**P256 The potential of extending the production cycle of white and brown hens in furnished cages**

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**P257 Effect of egg storage duration on brooding temperature requirements of broilers**

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**P258 Comparative study of egg-quality parameters for indigenous breed: Kadaknath over White Leghorn chickens**

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**P259 Pigeon rearing a new approach to poultry sector in Bangladesh**

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**P260 Modeling the use of energy in broiler farms**

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**P261 Effect of breed and clutch size on chick quality and hatchability**

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**P262 Various donor / recipient combinations for gonadal tissue transfer in chicken**

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**P263 Adaptation of intra-cardiac blastodermal cell injection methodology to Hungarian goose**

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**P264 Relationship between broiler breeder age, yolk fatty acid contents, embryonic mortalities and chick quality**

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**P265 Relationship between hen age, yolk weight, solid content and embryogenesis in broiler hatching eggs**

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**P266 Chicken eggshell ovocalyxin-36 is an effector protein that can modulate the production of proinflammatory mediators.**

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**P267 Chemerin and visfatin expression in hen ovary: a potential role in granulosa cell steroidogenesis**

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**P268 Evaluation of antioxidants supplementation on proliferating cell of testis of old broiler breeder males**

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**P269 The effects of 17 $\alpha$ -ethynylestradiol (EE2) exposure on chicken germ cells cultured in vitro**

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**P270 Growth performance of growing turkeys fed diets containing varying levels of honey.**

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**P272 Comparative preformance and adaptability of four exotic breeds of broiler chickens raised in Zaria Nigeria**

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**P273 Is it possible to differentiate the feet of two layer lines from a mixed flock at the evisceration line for a separate assessment of foot pads?**

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**P274 Influence of different housing conditions on the prevalence of foot pad dermatitis in fattening turkeys**

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**P275 In ovo blastoderm detection in whitened brown layer eggs**

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**P276 Thermal programming in broilers eggs of two different origins**

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**P277 Recording of oviposition in group housing systems with family nests using a weighing perch with RFID**

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**P278 Litter provision on dust bathing mats in an enriched cage system for laying hens – How many donations per day make sense?**

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**P279 Effects of various equipment colors on the several traits of laying hens**

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**P280 Incubation temperature profiles and litter type affect broiler footpad dermatitis incidence**

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**P281 Evaluation of an additional water supply in pekin ducks (Anas platyrhynchos)**

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**P282 Behavioural observations of free-range laying hens in pasture enriched with aromatic plants.**

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**P283 Effect of hot or cold exposures during incubation on post-hatch expression of thermoregulatory and nutrient transporter gene in broiler chickens**

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**P284 Genetic selection of turkey and health related problems**

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**P285 Can commercial flocks of intact-beaked laying hens in loose housing systems be managed with good welfare outcomes?**

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**P286 Laying behaviour performed by laying hens in enriched cages**

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**P287 Control of poultry red mites (*Dermanyssus gallinae*) by predator mites or inert dusts, tested in the laboratory and in the field**

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**P288 Results from welfare quality assessment in Finnish farms**

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**P289 The effect of heating systems on occurrence of footpad dermatitis in broilers**

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