



**POSTERS AND PERSPECTIVE FOR
„OTHER” MONOGASTRICS (POULTRY,
RABBITS AND MICE)**

PART I

The posters of session 49

There are 17 posters in Session no. 49

Classified as health related issues with regard (mainly) to: Genetics, Nutrition, Physiology, Welfare, Economics

Genetics

Abstract	Author Corresponding address (✉)	Title	All Authors	Key words
31575	Alemu, Solomon.W ✉ s.worku@cgiar.org	Evaluating body weight and egg number per bird per week for four tropically adapted chicken breeds	Alemu, S.W.; Hanotte, O.; Dessie, T.; Mrode, R.	Design of breeding programmes; Quantitative genetics;
31417	Chu, Tihnh.T. ✉ chu.thinh@mbg.au.dk	Benefits of using genomic information for broiler breeding program in presence of GxE interactions	Chu, T.T.; Norberg, E.; Henshall, J.; Huang, C.; Jensen, J.	Genomic selection; Quantitative genetics;
30728	Berghof, Tom V.L. ✉ tom.berghof@wur.nl	Improving disease resistance in chickens: divergent selection on natural antibodies	Berghof, T.V.L.; Van Der Poel, J.J.; Bovenhuis, H.; Parmentier, H.K.; Arts, J.A.J.; Visker, M.H.P.W.	Robustness; Health; New phenotypes;
32320	Emamgholi Begli ✉ emamgholi202@gmail.com	A genomic single-step random regression model for egg production in turkeys (Meleagris Gallopavo)	Emamgholi Begli, H.; Wood, B.J.; Willems, O.; Baes, C.F.; Abdalla, E.A.; Schenkel, F.	Genomic selection;

Posters- Session 49 (Genetics)

31575

Alemu, Solomon .W; ✉ s.worku@cgiar.org

Evaluating body weight and egg number per bird per week for four tropically adapted chicken breeds

- upgrade smallholder poultry to small-scale commercial framework in Ethiopia
- under the **project called African chicken genetic gain**
- performance traits (e.g. live body weight at week 20 lbw) and number of eggs per bird per week (epbpw) in four tropically adapted chicken



African Chicken Genetic
Gains: ACGG-Ethiopia
[report](#)

31417

Chu, Think.T. ; ✉ chu.thinh@mbg.au.dk

Benefits of using genomic information for broiler breeding program in presence of GxE interactions

- explored benefits of using genomic information in a broiler breeding program
- candidates were raised and tested in a bio-secure environment (B) and close relatives were tested in a commercial production environment (C)
- breeding values (EBVs) of body weight (BW) traits predicted using a pedigree-based BLUP model
- **combined pedigree and genomic information** in ssGBLUP substantially increased population accuracy of EBVs 31.7-73.1% for genotyped birds and from 6.3-14.9% for non-genotyped birds

Selected Posters- Session 49 (Genetics)

30728

Berghof, Tom.V.L. ; ✉ tom.berghof@wur.nl

Improving disease resistance in chickens: divergent selection on natural antibodies (!!!)

Robustness; Health; New phenotypes;

- Keyhole limpet hemocyanin (KLH)-binding Natural Ab titers in chickens are heritable
- Hypothesis: breeding for higher NAb titers might improve general disease resistance
- White Leghorn chicken line was divergently selected and bred on total KLH-binding NAb titers at 16 weeks of age for 6 generations
- Generations 4 & 6 inoculated with APEC (Avian Pathogenic Escherichia Coli)
- KLH-binding NAb selection has a favourable correlated response on the humoral adaptive immune system
- selection for higher NAb has a beneficial effect on resistance to APEC infection

The Posters in Session no.49

Welfare

Abstract	Author Corresponding address (✉)	Title	All Authors	Key words
30536	Braun, R. ✉ braun1816@gmail.com	Animal welfare and productivity of hosted hens in a cage-free system	R. Braun, S. Pattacini, J. Sosa Bruno	Hens; cage-free; efficiency
32015	Buijs, Stephanie .A.F. ✉ stephanie.buijs@afbini.gov.uk	How accurate is keel bone damage assessment by palpation and how does experience affect this?	Buijs, S.; Heerkens, J.L.T.; Delezie, E.; Tuytens, F.A.M.; Ampe, B.; Rodenburg, T.B.	Health; Welfare;
31718	Toppel, Kathrin ✉ k.toppel@hs-osnabrueck.de	Impact of a litter amendment on welfare indicators and litter quality in a Turkey husbandry	Toppel, K.; Schoen, H.; Gauly, M.; Kaufmann, F.; Andersson, R.	Management and husbandry; Welfare;

Selected Posters- Session 49 (Welfare)

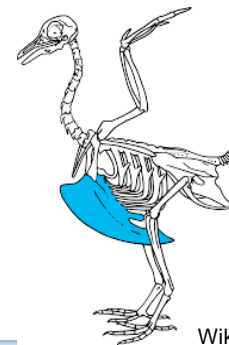
30536

Braun, R.; ✉ braun1816@gmail.com

Animal welfare and productivity of hosted hens in a cage-free system

Hens; cage-free; efficiency

- The production of eggs in cage-free floor systems (diametrically different from production in confinement)-study from Argentina
- The indicators tested were:
 - live weight, growth and eating behavior, productive of eggs along the posture and feed conversion efficiency
 - animal density, temperature, relative humidity, air flow and light intensity
 - presence of wounds and injuries, nail length and mortality
- The percentage of laying was relatively lower (5%) than in confined hens.
- It was difficult to adapt the hens to the nesting ; 50% of the eggs were collected from the floor



<https://www.revolvy.com/page/Free%252Drange-eggs>

Wikipedia.pl



32015

Buijs, Stephanie .A.F. ; ✉ stephanie.buijs@afbini.gov.uk

How accurate is keel bone damage assessment by palpation and how does experience affect this?

Health; Welfare;

- Palpation is the most commonly used method to evaluate keel bone damage in living hens
- How important is the experience of assessor
- 10 assessors, 50 laying hens, for intra-assessor consistency (i.e., test-retest reliability) Cohen's Kappa was calculated for each assessor
- all assessors lacked accuracy when assessing caudal fractures
- experience improves accuracy but does not guarantee high accuracy for all types of damage
- implement other training methods (e.g., comparison to post-dissection scores or to radiographs) ?

Nutrition

Abstract	Author Corresponding address (✉)	Title	All Authors	Key words
32052	Tozawa, Akitsu ✉ akitsu-t@ntu.ac.jp	Comparison of broiler productivity fed different types of diet at commercial farm in Northern Japan	A. Tozawa, S. Sato	
31787	Van Beirendonck, S. ✉ Bruneel@orffa.com	L-selenocystine and L-selenomethionine and their deposition in broiler muscle tissue	S. Van Beirendonck, B. Driessen, G. Du Laing, Brecht Bruneel , L. Segers	
31260	Yang, Ye.Y. ✉ yangyi1104657897@163.com	Effects of de-oiled lecithin in laying hens	Yang, Y.; Nguyen, D.H.; Seok, W.J.; Kim, I.H.; Yoon, S.B.; Kim, K.A.	Feed supplements and additives; Livestock effects on environment; Management and husbandry;
30537	Braun, R.O. ✉ braun@agro.unlpam.edu.ar	Productive response in broilers fed with rape seed (<i>Brassica napus</i>)	Pattacini, S. ; Chapado, J.; Braun, R.; Magnani, M.	
31521	Buyse, Kobe ✉ Kobe.Buyse@ilvo.vlaanderen.be	Chestnut tannins in laying hen feed and their effect on metabolism	Buyse, K.; Wegge, B.; Janssens, G.G.P.; Delezie, E.; Lourenço, M.	Feed supplements and additives; Digestion and metabolism;
31641	Emegha, Udu.O. ✉ pstemeghaudu52@gmail.com	Using mixed rice bran in laying hen diets	U.o, J.J.	New feeding systems;

Selected Posters- Session 49 (Nutrition)

32052

Tozawa, Akitsu.; ✉ akitsu-t@ntu.ac.jp

Comparison of broiler productivity fed different types of diet at commercial farm in Northern Japan

- Productivity of broilers fed 3 types of diets:

A/ commercial diet with antibiotics;

B/ commercial diet with brown rice and rye w/o antibiotics;

C/ commercial diet with vitamins and *Lactobacillus*-based probiotic w/o antibiotics

(Data of 909 broiler flocks kept in 41 broiler farms in Northern Japan from Apr. 2017 to Feb. 2018 were used)

- broiler fed a diet with vitamins and *Lactobacillus* probiotic w/o antibiotics /C/ in conventional farm had lower productivity than the broiler fed a commercial diet /A/ or a commercial diet with brown rice and rye /B/

30537

Braun, R.O. ; ✉ braun@agro.unlpam.edu.ar

Productive response in broilers fed with rape seed (*Brassica napus*) (Pattacini presenting)

- the **rapeseed grain (6%)** prior to inclusion in the balanced diets during the growth - fattening period, to improve the composition of the carcasses and the quality of the meat and its fatty acid composition
- The I_2 of the fat of rape-eating chickens is higher and is reflected in higher % unsaturated fatty with three and more than three double bonds in the carbon chain (ω 3)
- The ratio ω 6 / ω 3 that for the control was 10.69: 1 and for the treatment 8.30: 1.



Physiology Economics

Abstract	Author Corresponding address (✉)	Title	All Authors	Key words
2381	Carrillo-Moreno, Dalia.I. ✉ dalia.ivettecm@gmail.com	Relationship between the number of hatchings and the pre-incubation conditions of poultry eggs	D.I. Carrillo-Moreno, J.H. Hernandez, C.A. Meza-Herrera, J.A. Beltran-Legaspi, E. Carrillo-Castellanos, J.Z. Ordoñez-Morales, F.G. Véliz-Deras	
31012	Litt, J. ✉ litt@itavi.asso.fr	European guide of good and better practices for poultry transport	L. Warin, J. Litt, C. Mindus, E. Sossidou, H.A.M. Spoolder, L. Bignon	
32426	Katarzyna Utnik-Banaś ✉ rrbanas@cyf-kr.edu.pl	Fluctuation of chicken meat price in European Union in 2007-2018	K. Utnik-Banaś	time series decomposition, price fluctuation, broiler chicken JEL classification: Q11, Q13 (BIOSTRATEG)



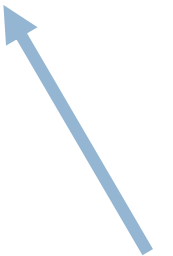
PART II

Perspective for „other monogastric” species in EAAP

Increasing input from poultry, rabbit and mice



		Ghent 2019	Dubrovnik 2018	Tallin 2017
Sessions	Total	74	71	56
	Other Mono	32 (43%)	28 (39%)	25 (45%)
Abstracts	Total	1145	1132	841
	Other Mono	121 (11%)	83 (7%)	81 (10%)

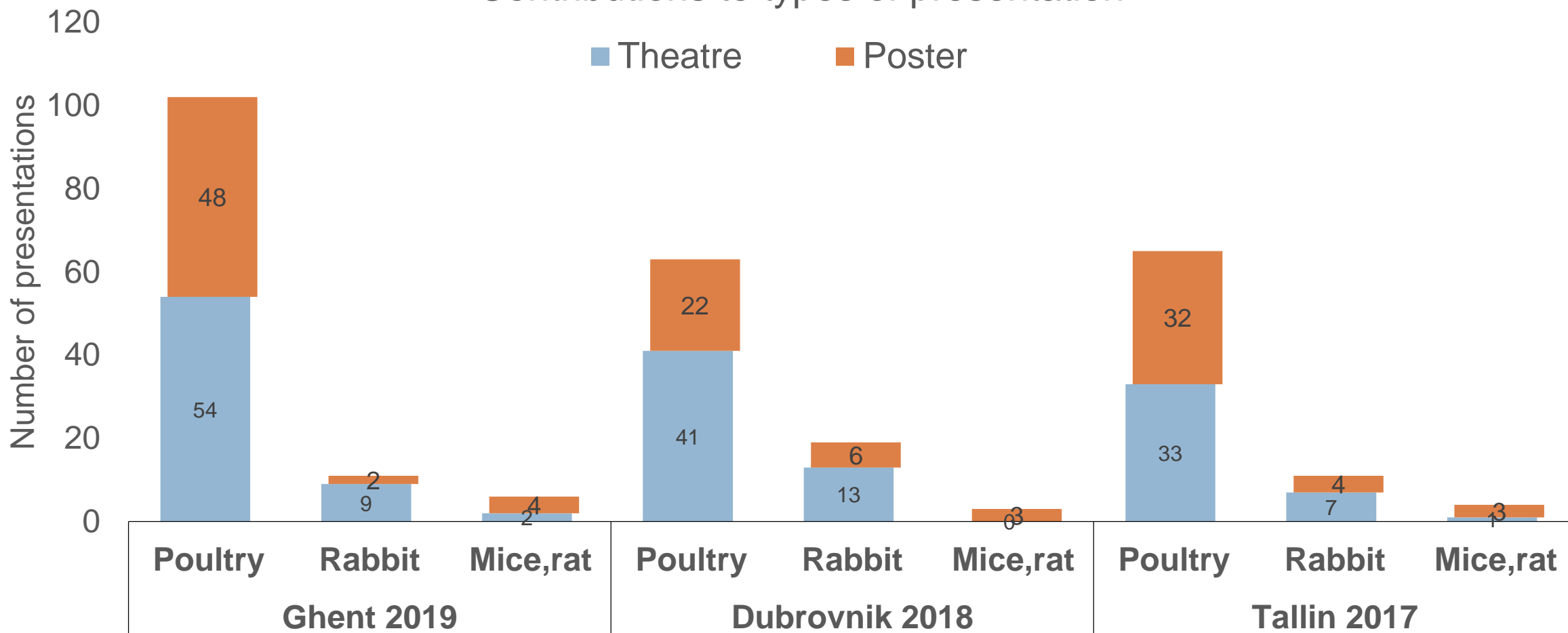


- Sessions (%) where „other monogastrics” (poultry, rabbits, mice) appeared
- Share of abstracts (%) with „other monogastrics” (poultry, rabbits, mice)

Increasing input from poultry, rabbit and mice

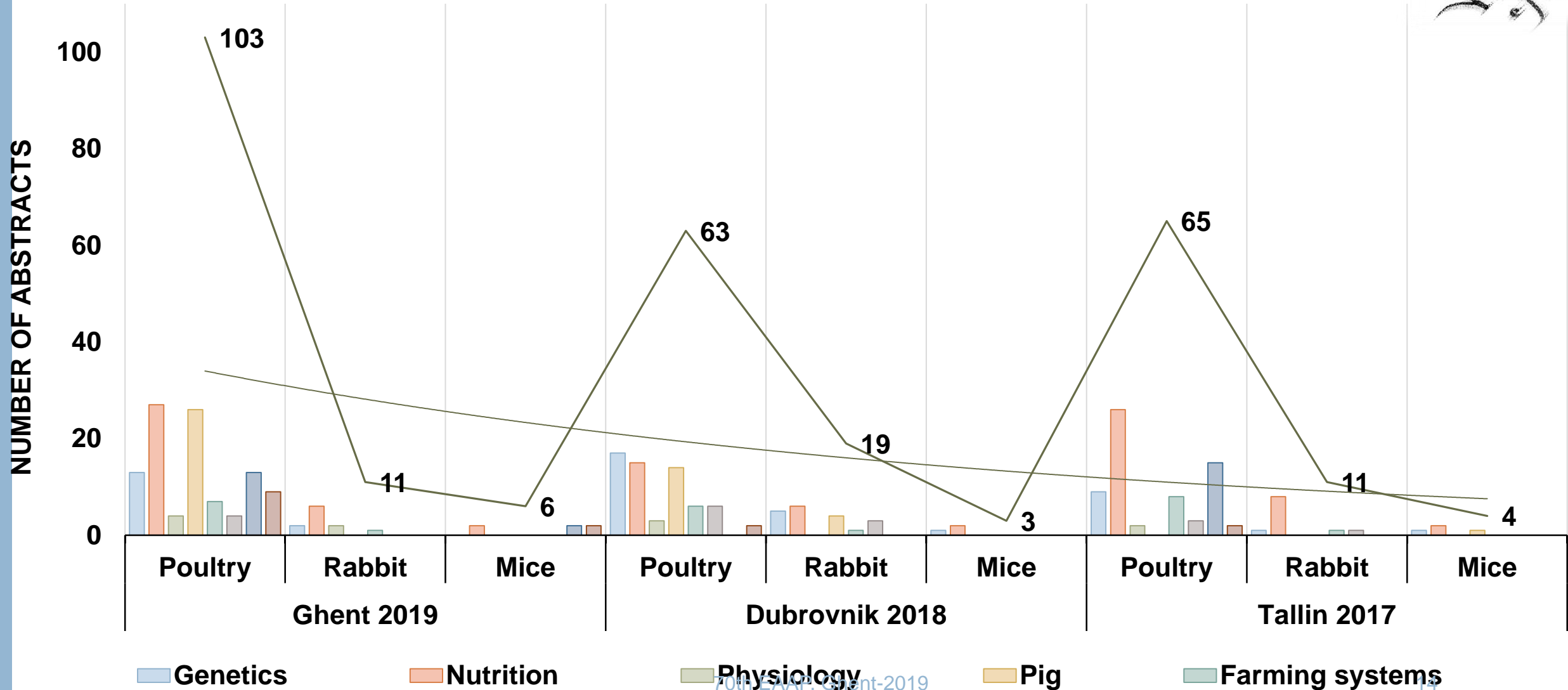


Contributions to types of presentation



Input to themes from poultry, rabbit and mice

"Species" per themes



Poultry and rabbits in other organizations



European Forum of Farm Animal Breeders



World Lagomorph Society



ATF-EAAP Special session, 26/08

Poultry and rabbits in EU-funded projects



FABRE Technology Platform (TP) (EAAP Session: Gene editing: Can we afford (not) to use precision technologies in livestock breeding ; Wednesday 28 August 2019, 08:30-12:30) (Room 400)



Innovative Management of Animal Genetic resources



functional genomes of two main monogastric farm species (pig & chicken)



Feed-a-gene



LaGomiCs Sequencing the Genomes of an Entire Mammalian Order



COST Action “A Collaborative European Network on Rabbit Genome Biology – RGB-Net”



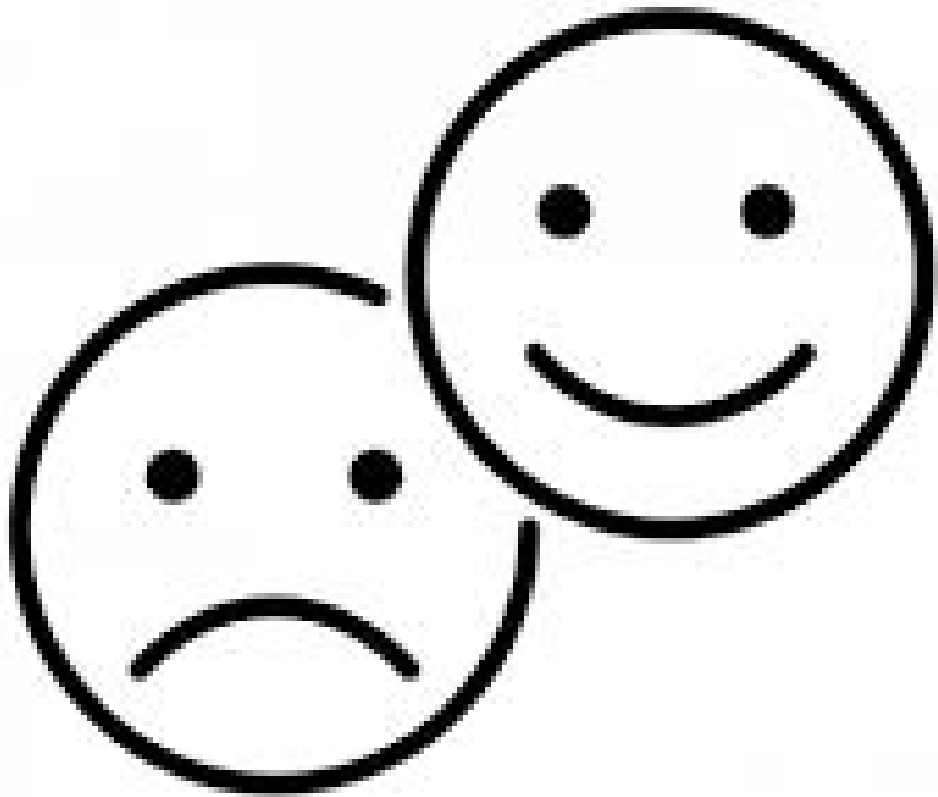
Strengthening Animal Production and Health through the Immune Response



Solutions to farming problems in intensive production of monogastric animals



Efficient and ecologically friendly pig and poultry production



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