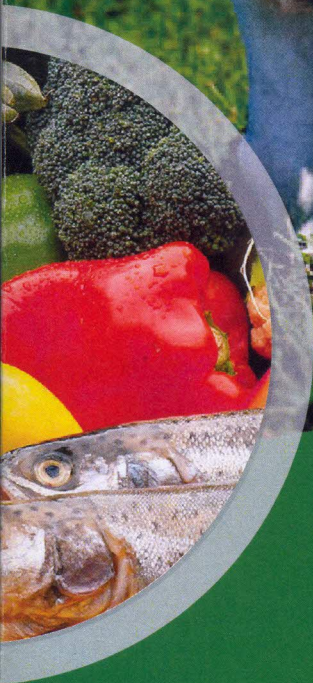
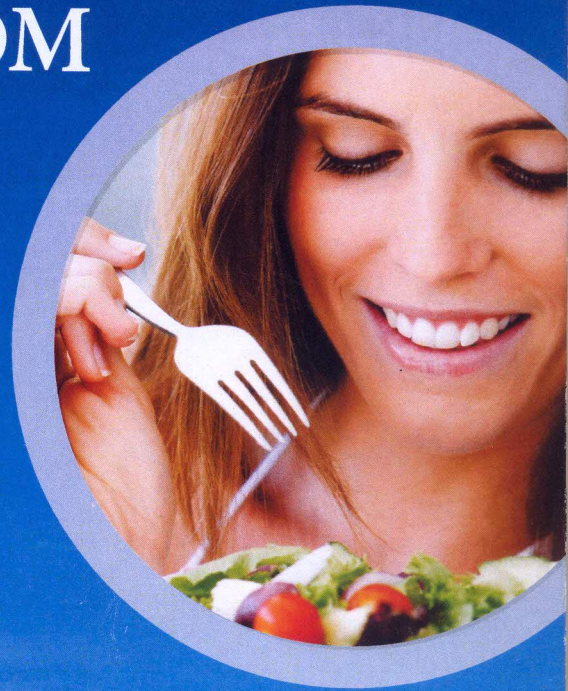


19TH-20TH FEBRUARY, MILAN, ITALY

HEALTHY FOOD FROM HEALTHY ANIMALS



FEED *for* HEALTH

FEED FOR HEALTH FINAL CONFERENCE, 2013

EUROPEAN
SCIENCE
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IN SCIENCE AND TECHNOLOGY



UNIVERSITÀ DEGLI STUDI DI MILANO
DIPARTIMENTO DI SCIENZE VETERINARIE
PER LA SALUTE, LA PRODUZIONE ANIMALE
E LA SICUREZZA ALIMENTARE

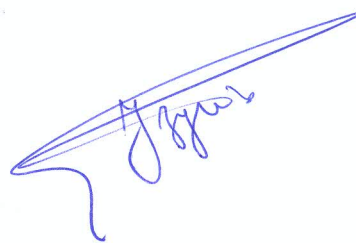


Book of Abstracts Final Feed for Health Conference, 19th-20th February, Milan, Italy

Edited by Claudia Paltanin, Matteo Ottoboni and Luciano Pinotti

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Organisational information

The FFH Final Conference 'Healthy Food from Healthy Animals' 2013 Scientific Committee

Luciano Pinotti

Department of Health, Animal Science and Food Safety, University of Milan, Italy, Coordinator Cost Action

Åshild Krogdahl

NVH, Norway

Ian Givens

Reading University, United Kingdom

Chris Knight

University of Copenhagen, Denmark

Joop Luten

Nofima, Norway

The FFH Final Conference 'Healthy Food from Healthy Animals' 2013 Organising University of Milan – Departement VESPA Committee

Luciano Pinotti, chair

Antonella Baldi

Vittorio Dell'Orto

Support The FFH Final Conference 'Healthy Food from Healthy Animals' 2013

Department of Health, Animal Science and Food Safety, University Milan, Italy

COST European Cooperation in Science and Technology, Belgium

University of Milan

Program of the Final Conference Feed For Health

19th February

08.30 Registration

09.00 Opening Conference L. Pinotti
Welcome from Director V. Dell'Orto and Rector G. Vago

09.30 Introducing agenda L. Pinotti
Premiere Video newsletter 20

Opening section- Future challenges - Chair: Prof. Å. Krogdahl

10.00 *Feed industry facing the challenge to ensure safe and healthy feed for food*
M. Eeckhout and A. Bouxin

10.30 *Potential of insects as food and feed in assuring food security*
A. van Huis

11.00 **Coffee break**

Session 1- Nutrition, health and welfare - Chair: Prof. C. Knight

11.30 1. *Management of physiological status for better immune function, health and performance of dairy cows.*
K.L. Ingvarstsen and K.M. Moyes

12.00 2. *Effects of feeding silage ensiled with magnesium chloride to dairy cows prior to calving*
C. Kronqvist, M. Jardstedt, R. Spörmndly and K. Holtenius

12.10 3. *The potential use of caprylic acid in broiler chickens: effect on counts of salmonellas in gastrointestinal contents of chickens experimentally infected with Salmonella Enteritidis*
E. Skřivanová, G. Dlouhá, M. Marounek, S. Prazáková

12.20 4. *Combined probiotic preparation improved performance parameters of piglets*
E. Delia, F. Shytaj

12.30 5. *Influence of dietary nucleotides in postweaning-challenged piglets on intestinal proinflammatory cytokines*
Caputo J. M., Ferroni M., Comi M., Agazzi A., Dell'Orto V., Bontempo V., Savoini G.

12.40 6. *The influence of feed, milk and indoor air quality on the welfare scoring of dairy cattle farm* – M. Radeski, A. Janevski, M. Ratkova, L. Angelovski, R.N. Chrcheva, R. Uzunov, L. Pendovski, V. Ilieski

13.00 **Lunch**

Session 2- Feed safety - Chair: Dr. L.W.D. van Raamsdonk

14.00 1. *Feed for health - a risk based approach Issues on feedsafety*
L.W.D. van Raamsdonk, L.A.P. Hoogenboom, S.M. van Ruth, P. Adamse, P. Bikker, H.J.P. Marvin, A.W. Jongbloed, E. Kok, R.G. Herbes, J. de Jong

14.15 2. *Mycotoxins a largely ignored global health disease*
I.P. Oswald



14.45	3. <i>Zearalenone effects on oxidative stress and inflammation in weanling piglets</i> D. Marin, G. Pistol, I. Neagoe and I.Taranu
14.55	4. <i>Image analysis for MBM characterization: preliminary results of comparison between bovine and poultry lacunae</i> Amato G., Marchis D., Brusa B., Pinotti L., Paltanin C., Ottoboni M., Abete M.C.
Session 3- Consumer perception of animal products - Chair: Dr. P. Honkanen and Prof. J. Luten	
15.10	1. <i>Market perspectives for ethical meat product differentiation</i> A. Krystallis
15.40	2. <i>Seafood products in Norway are 'packed' with information, but what do consumers use of it all?</i> T. Altintzoglou and B.H. Nøstvold
15.50	3. <i>On site quality control of pork meat by using a handheld NIRS</i> B. de la Roza-Delgado , A. Soldado , A.F. Oliveira , A. Martínez-Fernández and A. Argamenteoría
16.00	4. <i>Near Infrared Spectroscopy and IC technologies to increase consumer knowledge about livestock production systems: The free range Iberian pig system</i> A. Garrido, E. Zamora-Rojas, E. de Pedro, J.E. Guerrero and D.C. Pérez-Marín
16.10	5. <i>Consumer preference and sensory evaluation of two types of oysters.</i> J. van Houcke, T. Altintzoglou, M. Stieger and J. Luten
16.20	Coffee break
Session 4- COST at UNIMI - Chair: Prof. A. Baldi	
16.50	1. COST Tools Prof. Baldi
17.00	2. <i>FA1201: Epigenetics and periconception environment as an epigenomic lever for optimizing food production and health in livestock</i> T.A.L. Brevini and F. Gandolfi
17.10	3. <i>FA1002: Proteomics in Farm Animals" initiative</i> – F. Ceciliani, A.M. de Almeida, D. Eckersall
17.20	4. <i>FA0802: COST Action Feed for Health in figures</i> L. Pinotti
17.45	Networking Cocktail

20th February

Session 5- Dietary and optimisation - Chair Prof. L. Pinotti

- | | |
|-------|--|
| 9.00 | 1. <i>Plant feed ingredients in fish diets may compromise gut function and fish health</i>
Å. Krogdahl and A. M. Bakke |
| 9.30 | 2. <i>Inclusion of GM Maize into diet of animals – Pros and Cons</i>
Chrencová M., Chrastinová A., Laukovaá A., Poláčiková M., Formelová Z., Strompfová V., Ondruòka A., Rafay J., Plachá I., Szabóovár R., Pogány Simonová, M. |
| 9.40 | 3. <i>Choline in hay-based dairy cow diets: effects on milk production and metabolic health</i>
Pinotti L., Agazzi A., Ottoboni M., Baldi A., Dell'Orto V., Savoini G. |
| 9.50 | 4. <i>Influence of pelleting process on protein changes in diets based on corn and sunflower meal</i>
R. Čolović, A. Torbica, J. Tomić, D. Ivanov, Đ. Vukmirović, J. Lević, S. Sredanović |
| 10.00 | 5. <i>Lipid hydrolysis during processing and storage of commercial feed</i>
A. Tres, R. Codony, E. Vilarrasa, R. Buonfiglio, J. Zoldan, N. Magrinyà, R. Bou and F. Guardiola |
| 10.10 | 6. <i>Influence of addition of organic and inorganic selenium to porcine diet on quality attributes of raw and cooked pork</i>
A. Miezieliene, G. Alencikiene, R.Gruzauskas |

10.20 Coffee break

Session 6- Feed, food & health – Chair: Prof. I.D. Givens

- | | |
|-------|--|
| 10.50 | 1. <i>Food from plants versus food from animals: which is most sustainable? –</i>
N. Scollan |
| 11.20 | 2. <i>Does Dairy Food Intake Predict Arterial Stiffness and Blood Pressure in Men? Evidence from the Caerphilly Prospective Study</i>
K.M. Livingstone, J.A. Lovegrove, J.R. Cockcroft, P.C. Elwood, J.E. Pickering and D.I. Givens |
| 11.35 | 3. <i>Relationship between ruminant trans fatty acids intake levels and blood lipids in healthy subjects: results from a systematic review of randomized clinical trials</i>
C. Gayet-Boyer, F. Tenenhaus-Aziza, C. Prunet, C. Marmonier, C. Malpuech-Brugère, B. Lamarche and J.M. Chardigny |
| 11.45 | 4. <i>Dose-response efficacy and long-term stability of the hypocholesterolemic effect of amidated pectin in female rats</i>
M. Marounek, Z. Volek, D. Dušková, J. Tůma* and T.Taubner* |
| 11.55 | 5. <i>Milk fatty acids to diagnose rumen acidosis and liver ketosis in dairy cattle - current state of the art</i>
V. Fievez |

12.10 Closing conference LP

12.15 **Lunch**

13.15 MC-meeting

14.15 End MC Meeting

Parameter for assessment of animal health and welfare standards in goat farming

L. Angelovski, M. Radeski, R. Uzunov, M. Ratkova, L. Pendovski, A. Janevski, R. Crceva Nikolovska, V. Ilieski and P. Sekulovski

Faculty of veterinary medicine, University of "Ss Cyril and Methodius", Skopje, Macedonia

Introduction. Traditional operational systems coupled with modern standards of organic production in the specific semi-arid climate and mountainous-hilly character of the country is of great importance in goat production in Macedonia. Therefore, establishing animal health and welfare standards and identifying assessment parameters is one of the main objectives of this study.

Materials and methods. One organic goat farm with 300 goats was used for assessing animal health and welfare standards. Feed samples from hay, grain and wheat were taken for safety and quality analysis. For determining the health status and udder condition, milk samples from 30 goats were taken for somatic cell count, total bacteria count and chemical analysis. On the farm, the following parameters were assessed: stockmanship and animal handling, feed and water provision, shelter and housing facilities, husbandry practices, animal based parameters and implementation of quality assurance program.

Results. Feed samples results (hay, grain, wheat) fulfilled the requirements of the current legislative. Average somatic cell count from milk samples was 312.000/ml, with 1.902.000 cfu/ml. The milk quality analysis showed an average fat content of 4.15 g, protein content of 3.25 g and lactose content of 4.55 g.

Regular access to feed and water also was found. Housing was built to protect the goats from the wind, rain and snow. The clinical examination and body condition scores showed good health status and small percentage of lean goats. The complete quality assurance program was not implemented.

Discussion. Feed safety and quality analysis can be used as a parameter for determining the health status and animal welfare in goat herd, especially its long term impact. Although milk samples can be taken only few months during the year, they could be used as an indicator for hygienic, housing conditions and farm husbandry practices. Creating and using questionnaire with predetermined parameters for management procedures is necessary for complete assessment of the present animal welfare, while animal based measures should be further developed for final analysis of health and welfare status of farm goats.

Conclusion. In general, we can conclude that organic goat production can improve animal welfare, protect the environment, sustain rewarding rural lifestyles and enhance the health status; however these should be the areas for future development and research in goat production.

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