



60th ANNUAL MEETING OF EAAP, BARCELONA 2009
EUROPEAN FEDERATION OF ANIMAL SCIENCE
Barcelona, 24-27 August 2009 (www.eaap2009.org)

S43: Symposium on “Advances and Use of Animal Electronic Identification”

August 27, 2009 (Thursday, 8.30–18.00 h), Room 7 (Auditorium)

Venue: Fira de Barcelona (Montjuïc), Palau de Congressos no. 5, Avenue María Cristina s/n, Barcelona, Spain.

Contact: Prof. Gerardo Caja, Universitat Autònoma de Barcelona, Spain (gerardo.caja@uab.cat)

Programme

Official language of the EAAP meeting is English. Nevertheless, English to Spanish (but not Spanish to English) simultaneous translation will be provided by courtesy of the Spanish Ministerio de Medio Ambiente, Medio Rural y Marino (Ministry of Environment, Rural and Marine Affairs).

08.00–08.30 Registration of participants and delivery of documentation.

08.30–10.15 Session 1: Animal Identification Systems. Comparison of Visual and e-ID Technologies.

Chair: Juan Robles (DG Recursos Agrícolas y Ganaderos, MARM, Spain).

Invited Speaker (25 min theatre presentation followed by 5 min questions)

08.30–08.55 Electronic identification of animals – the EU's legal approach. K.-U.Sprenger; European Commission-DG SANCO D1, Directorate General Health and Consumers, Brussels, Belgium.

Short communications (15 min theatre presentations followed by 5 min questions)

09.00–09.15 Results of Spanish sheep and goat electronic identification in practice. A.R. Rinaldi Iii, Comité Español de Identificación Electrónica Animal - Tragsega, Madrid, Spain.

09.20–09.35 Use of radio frequency ear tags in dairy herd management in Canada. J. Rodenburg¹, B.B.² Murray, I. Rumbles³; ¹DairyLogix Consulting, Woodstock, Ontario, Canada; ²Ontario Ministry of Agriculture, Food and Rural Affairs, Kemptville, Ontario; ³Canwest Dairy Herd Improvement, Guelph, Ontario, Canada.

09.40–09.55 Evaluation of identification devices in commercial pig farms. C. Santamarina¹, M. Hernández-Joyer², G. Caja², D. Babot¹, ¹Universitat de Lleida, Producció Animal, Lleida, Spain; ²Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

10.00–10.15 Poster discussion (1):

- Comparison of leg bands and rumen boluses for the electronic identification of dairy goats. S. Carné, G. Caja, M.A. Rojas-Olivares, A.A.K. Salama; Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

- RFID Systems of cattle farm in Vojvodina. S.Trivunović¹, D. Kučević¹, M. Plavšić¹, S. Stankovski², G. Ostojčić²; ¹Faculty of Agriculture, Animal Science, Novi Sad, Serbia; ²Faculty of Technical Science, Industrial Engineering and Management, Novi Sad, Serbia.

- Retinal image recognition for identifying and tracing live and harvested lambs. M.A. Rojas-Olivares, G. Caja, S. Carné, A.A.K. Salama; Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

- Breaking resistance of lamb ears according to ear tag position and breed. G. Caja¹, H. Xuriguera², M.A. Rojas-Olivares¹, S. González-Martín², A.A.K. Salama¹, S. Carné¹,

J.J. Ghirardi¹; ¹Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain;
²Universitat de Barcelona, DIOPMA, Barcelona, Spain.

- Bolus features for the electronic identification of goats. S. Carné, G. Caja, J.J. Ghirardi, A.A.K. Salama; Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

- Assessment of acute pain experienced by piglets from ear tagging, ear notching and intraperitoneal injectable transponders. E.E.C. Leslie, M. Hernández-Jover, P.K. Holyoake; University of Sydney, Camden, Australia.

- Electronic identification of game and ornamental species in practice. A. Encinas Escobar, A.E. Rinaldi Iii; Tragsega S.A., Madrid, Spain.

10.15–10.45 *Coffee break*

10.45–12.30 Session 2: Performance and Limits of Animal e-ID Devices and Reading Equipment for Implementation.

Chair: Ole Klejs Hansen (ICAR animal identification SC, Denmark)

Invited Speaker (25 min theatre presentation followed by 5 min questions)

10.45–11.10 Performance evaluation of low radio frequency identification equipment for livestock. J. Bishop, P. Viaud, T. Pinato; European Commission - JRC, Ispra, G07-IPSC Tempest Laboratory, Ispra (VA), Italy.

Short communications (15 min theatre presentations followed by 5 min questions)

11.15–11.30 Reading performance of animal radio frequency transponders. P.H. Hogewerf, H. Van Roest, C.E. Van 't Klooster; Innovative Modern Agriculture - Wageningen, Wageningen, Netherlands.

11.35–11.50 Performance tests of electronic identification devices and equipment under various beef cattle management scenarios. K.E. Fike, B.A. Rickard, S.E. Ryan, D.A. Blasi; Kansas State University, Animal Sciences & Industry, Manhattan, Kansas, USA.

11.55–12.10 Framework actions for implementing the use of electronic identification of sheep and goat in Spain. J. Maté; Ministerio de Medio Ambiente, Medio Rural y Marino, Madrid, Spain.

12.15–12.30 Poster discussion (2):
- Study of preliminary conditions for a large scale use of cattle and small ruminants electronic identification. S. Duroy, J. Holtz, E. Rehben, L. Marguin, B. Balvay, C. Gilain-Galliot; Institut de l'Elevage, Génétique, Paris, France.

12.30–14.00 *Lunch*

14.00–15.45 Session 3: Implementing e-ID for animal monitoring and performance recording in practice

Chair: Badi Besbes (FAO, Rome)

Invited Speakers (25 min theatre presentation followed by 5 min questions)

14.00–14.25 Use of electronic identification for automated oestrus detection in livestock. F. Bocquier¹, G. Viudes², C. Maton², N. Debus², L. Gibault², J. Teyssier²; ¹Montpellier SupAgro, Montpellier, France; ²INRA, Montpellier, France.

Short communications (15 min theatre presentations followed by 5 min questions)

14.30–14.55 Electronic identification of Manchega dairy sheep: A balance after 10 yr of implementation. R. Gallego¹, A. Garcés¹, O. García-García¹, C. Domínguez¹, G. Caja²; ¹AGRAMA, Albacete, Spain, ²Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

15.00–15.15 Extensive management of a beef breeding farm based on radiofrequency identification technology in Argentina. A. Baldo¹, E. Beretta², N. Sorraín¹, S. Nava², M. Lazzari²; ¹Universidad Nacional de La Plata, Facultad de Ciencias Veterinarias, Zootecnia II, La Plata, Argentina; ²University of Study Milan, Faculty Veterinary Medicine, V.S.A. sez. Bioengineering, Milano, Italy.

15.20–15.40 Using EID+DNA traceability system for tracing pigs under commercial farm conditions. M. Hernández-Jover^{1,2}, G. Caja², J.J. Ghirardi², J. Reixach³, A. Sánchez²; ¹University of Sydney, Camden, Australia; ²Universitat Autònoma de Barcelona, Bellaterra, Spain; ³Selección Batallé, Riudarenes, Girona, Spain.

15.45–16.00 Poster discussion (3):

- Electronic identification for individual water intake measurement in sheep. E. Ricard¹, J.L. Weisbecker², M. Aletru², C. Duvaux-Ponter³, L. Bodin¹; ¹INRA, UR631 SAGA, Castanet Tolosan, France; ²INRA, UE0065 Domaine Experimental de Langlade, Pompertuzat, France, ³UMR INRA-AgroParisTech, PNA, Paris.

- Use of electronic identification for milk production recording in dairy sheep farms. I. Štoković¹, V. Sušić¹, I. Karadjole¹, A. Ekert Kabalin¹, Z. Mikulec¹, A. Kostelić², S. Menčik¹; ¹University of Zagreb, Faculty of Veterinary Medicine, Zagreb, Croatia (Hrvatska); ²University of Zagreb, Faculty of Agriculture, Zagreb, Croatia (Hrvatska).

- Study and development of a RFID integrated automatic traceability system for the bovine meat chain. E. Beretta¹, S. Nava¹, F. Tangorra¹, A. Baldo², E.M. Dallan³, M. Lazzari¹; ¹University of Study Milan, Facolta Medicina Veterinaria, V.S.A. sez. Bioengineering, Milano, Italy; ²Universidad Nacional de La Plata, Facultad de Ciencias Veterinarias Zootecnia II, La Plata, Argentina; ³Coldiretti MI-LO, Milano, Italy.

- EID and DNA traceability of animals and food. G. Ciftcioglu¹, G. Fiore¹, E. Marchi², M. Marcacci², C. Camma², I. Azzini³, A. Pagano³, N. Ferri²; ¹European Commission - JRC, CI-Animal&Food Action, Ispra, Italy; ²Istituto Zooprofilattico Sperimentale, Teramo, Italy; ³European Commission - JRC, G9 - Econometrics and applied statistics, Ispra, Italy.

15.00–16.15 *Coffee break*

16.15–18.00 Session 4: Cost-Benefit Analyses and Perspectives of Animal e-ID

Chair: James W. Oltjen (ASAS, University of California-Davis)

Invited Speakers (25 min theatre presentation followed by 5 min questions)

16.15–16.40 Economic analysis in relation with electronic identification of small ruminants. J. Hofherr, F. Natale, I. Solinas, G. Fiore; European Commission - JRC, CI-Animal&Food Action, Ispra, Italy

Short communications (15 min theatre presentations followed by 5 min questions)

16.45–17.00 Cost-benefit analysis of NAIS in California. L.J. Butler¹, J.W. Oltjen², V.J. Velez³, J.L. Evans³, F. Haque¹, L.H. Bennett¹, G. Caja^{1,4}; ¹University of California, Agricultural and Resource Economics, Davis, California, USA; ²University of California, Animal Science, Davis, California; ³California Department of Food and Agriculture, Animal Health Branch, Sacramento, California, USA; ⁴Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

17.05–17.20 Cost and benefits analysis of electronic identification in England. F. Parsonage, S. Warner; Department for the Environment Food and Rural Affairs (Defra), London, United Kingdom.

17.25–17.40 Implementation cost of sheep and goat electronic identification and registration systems in Spain according to European regulation. M.J. Milán, G. Caja, J.J. Ghirardi, C. Saa; Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain;

17.45–17.50 Poster discussion (4)

- Electronic vs. visual identification for lambing data and body weight recording under farm conditions. A. Ait-Saidi, G. Caja, G., S. Carné, A.A.K. Salama; Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

- Cost-benefit study of implementing electronic identification for performance recording in dairy and meat sheep farms. A. Ait-Saidi, G. Caja, M.J. Milán, A.A.K. Salama, S. Carné; Universitat Autònoma de Barcelona, G2R, Bellaterra, Spain.

17.50–18.00 Symposium Conclusions