

EAAP

European
Federation of
Animal Science



LAST NEWS FROM BRATISLAVA MEETING

The scientific programme of our next annual session, that will be held (as you know already very well!) in Bratislava, is confirmed and can be found on

www.eaap2012.org/en/scientific-programme.

We are also pleased to list the speakers that obtained a sponsorship from EAAP. We also desire to thank the American Society for Animal Science, the American Dairy Science Association, the Schaumann Stiftung and Wageningen University Press for their contribution in the scholarship program and hoping that they will continue to support our annual meetings.

The invited speakers are called to increase the scientific level of the sessions, and therefore we list them for you from the following page

Session 01: Mammary gland





The 63rd annual EAAP meeting is coming soon!!!

Bratislava, Slovakia

27 August - 31st August 2012

Website at: www.eaap2012.org

development and function

Chantal Farmer: "Suckling effects in sows: Does teat use in first lactation affect its yield in second lactation?"

Kevin Nicholas: "Alternative animal models to better understand mammary gland development and function"

Ratan k. Choudhary: "Molecular profiling of putative bovine mammary stem cells and identification of potential biomarkers"

Session 2: Opportunities to use genomic information for in-situ and ex-situ conservation

Olivier Hanotte, "Discovering the unique value of indigenous livestock populations: the opportunities of genomics"

Session 3: Breeding and management for milk and product »

Michael m. Schutz: "Genetic selection for optimal milk yield and quality in US grazing systems"

Session 4a: LFS in emerging and developing countries: trends, roles and goals.

Milan Zjalic: "Livestock farming systems in emerging and developing countries: trends, roles and goals"

Session 4b: Labour issues in LFS (gender, lifestyle, workload satisfaction, part-time agriculture, immigration)

Benoit Dedieu: "Changes in work in livestock farms: from general trends to the implications on LFS approaches"

Session 5: Free communications in horse genetics

Bertrand Langlois: "Variation factors of the use of foal heat in warm- and cold-blooded horse"



Session 06: Piglet survival through lactation performance, milk composition and management

Nick Gabler: "Maternal and postnatal dietary n-3 fatty acids improve piglet performance and health"

Session 09: Mammary health during the transition period

Juan Loo: "Peripartal tissue-specific transcriptome dynamics: a step towards integrative systems biology"

Session 10b: Breeding and conservation of dog breeds

Tom Lewis: "Prioritising health in pedigree dog breeding"

Session 11: Breeding and management for meat and product quality

Leo Den Hartog: "Product quality from a nutritional and sustainability perspective"

Session 13: Horse genetic resources focused to Central Europe

Imre Bodó: "Horse genetic resources in Central Europe"

Dorota Lewczuk: "Differences in judging of young horse free jumping"

Session 15: Innovative and practical management strategies to reduce N excretion from dairy farms

Glen Broderick: "Constraints to efficient protein utilization in the dairy cow and on the dairy farm"

Session 16: Synthesis and secretion of specific constituents into colostrum and mature milk

Graig Baumrucker, "Specific Components and Mechanisms that are Unique to the Formation of Colostrum"

Cheryl Ashworth: "Influence of pre-mating diets on oocyte and embryo development"

Session 18: Modelling complexity in LFS to address trade-offs and synergies for efficiency

Olivier Martin: "Why livestock farming systems are complex objects"

Daniel Villalba: "Integrated simulation/optimization models to deal with multiple farming objectives"

Walter Rosing: "Modelling complexity in livestock farming systems to address trade-offs and synergies"

Session 19: Impact of stockmanship on animal welfare and integrity

Ebby Von Borell: "The impact of stockmanship on the welfare of growing pigs"

Antoni Dalmau: "Assessment of fear and human animal relationship in finishing pigs at the slaughterhouse"

Session 20: Organic and Low Input Dairy Farming Systems

Padraig French: Challenges and opportunities for low input dairy systems

Kevin Shingfield: Role of rumen digestion in low input milk production systems

Christoph Winckler: Challenges and opportunities for animal welfare in organic and low input dairy farming

Session 22: Phenotyping complex traits in dairy and beef cows; applications

Jennie Pryce: Genomic selection for feed efficiency in dairy cattle – a complex objective

Session 23a: AI, fertility and reproductive technologies in sheep and goats

Dattena Maria: "Fertility and reproductive technologies in sheep and goat"

Session 24a: Entrepreneurship, farm and herd management

De Lauwere, C.: "Farmers' decision making with regard to animal welfare"

Session 25: Using genomic data for management and non-breeding purposes

John Cole "Applications of haplotypes in dairy farm management"

Ignacy Misztal "Genome-wide association mapping using single-step GBLUP"

Session 26 - Nutritional value of by-products derived from the bio-based economy

Daniel Sauvant: "Variations in composition and nutritional value for ruminants of by-products from bio-based energy"



Session 27: Entrepreneurship, farm and herd management

Nir (Markusfeld), O.: "Achieving Optimal Cow Performance with the Aid of Information"

Bar, D.: "The modern cow bell: activity and rumination sensing collars"

Prezelj, K.: "Interactive Strategic Management methodology for improvement of entrepreneurship"

Session 28: Health and fertility: aspects of breeding, energy balance and transition periods

Van Knegsel, A.T.M.: "Shortening the dry period for dairy cows: effects on energy balance, health and fertility"

Session 31. New systems design and technologies to mitigate emissions

Anna Flysjo: "Actions to mitigate greenhouse gas emissions from milk production. Animal Change project"

Jerke Devries: "Manure management and mitigation of greenhouse gases: opportunities & limitations. Animal Change project"

Pierre Gerber: "Greenhouse gas emissions from livestock food chains – a global assessment."

Session 40 Nutritional Strategies to reduce methane

Newbold, C.J.: "Nutritional strategies to reduce enteric methane emissions in ruminants"

Bannink, A.: "Trade-offs between methane emission reduction and nitrogen losses"

Session 41: Precision dairy and beef farming.

Faverdin, P.: "New perspectives and risks of precision livestock farming systems"

Halachmi, I.: "Precision livestock farming (PLF): review and case studies"



Session 43: Efficiency and optimization in ruminant husbandry

Gbur, P.: "The study of the functioning of the meat market for EU consumers"

Beldman, A.C.G.: "Developments in dairy worldwide, from a dairy farmers perspective"

Session 44: Nutrient sensing and signaling in the gastrointestinal tract; mechanisms, physiological significance and impact on animal's health and performance.

Robert Margolskee: "Nutrient sensing GPCRs in the lingual epithelium"

Soraya Shirazi-Beechey: "Glucose sensing in the intestinal tract; relevance to gut health"

Daniela Riccardi: "The extracellular calcium sensing receptor, CaSR, a nutrient sensor in physiology and disease"

Helen Raybould. "Lipid sensing in the gut mucosa; regulation of gut function and food intake"

Mick Bailey: "Nutrient sensing by the immune system: the role of Intestinal Microbiota"

Graeme Milligan: "G Protein -coupled receptors, nutritional and therapeutic targets"

Session 45: Symposium Genomics and horse production: from science to practice

James Mickelson: "Genetic variation in horse breeds derived from whole genome SNP data"

Session 48. Adaptation of livestock farming systems to climate change and uncertainty.

Guillaume Martin: "Supporting adaptation of farming systems to climate change and uncertainty: a position paper. Animal Change project"

Muriel Tichit. "Livestock farming and uncertainties: exploring tipping points and resilience with viability tools"

Session 50: Analysis of complex traits based on genome sequences and high density genotyping

Augustine Kong: "Measuring relatedness and studying recent mutations"

Session 51: Efficiency, competitiveness and structure of ruminant husbandry in E. Europe

Schroeder, E.: "Efficiency, competitiveness and structure of ruminant husbandry in Eastern Europe and Western Balkan"

Turyanski, A.: "Challenges and problems of milk production sector in Russia"

Bunevski, G.: "Efficiency, cooperative aspects and prospects for dairy and beef sectors in Macedonia"

Getya, A.: "Efficiency, cooperative aspects and prospects for dairy and beef sectors in Ukraine"

Ivanković, A.: "Adjustment of cattle and sheep production in Croatia to the actual economic and market environment"

Kyssa, I.: "Efficiency, cooperative aspects and prospects for dairy and beef sectors in Belarus"

Bogdanovic, V.: "An assessment of efficiency and prospects for dairy and beef sectors in Serbia"



Individual membership of EAAP

This month we have exceeded ourselves: we have acquired more members in all countries (910 in total!!!).

The number of members we currently have has increased in almost all territories. To list the countries where we have more members, those are: Belgium, Denmark, France, Germany, Greece, Ireland, Italy, the Netherlands, Spain, Sweden and USA.

There is no reason not to become a member!

It is completely free, with unlimited access to all our research and results, and with no obligation on your part.

We hate spam as much as you do, and for this reason you will receive only useful information by email. Fundamentally important: lead others and make an impact in the field of Animal Production!

Make all people in all territories aware!!!

The access to the Newsletter will be soon restricted to members only. So if you wish to have EAAP news

DON'T DELAY; JOIN TODAY!!!

We are currently working on making the Individual Membership more efficient and to provide exclusive services.

For instance we are in the process of opening a user forum on our website so that you can send us your feedback and to suggest additional activities you would like EAAP to activate in order to better serve you.

EAAP welcomes any feedback about individual membership throughout the year and will be happy to answer your questions by writing at:

member@eaap.org



Help us

We are currently working on making our EAAP site more efficient in order to better serve you.

We are reorganizing all our services online and we would be pleased to disseminate conferences related Animal Science or Livestock Production.

Please let us know your next conference, workshop, meeting! Use our means (Newsletter and website) to disseminate your events. For this and any other matters related to our activities, send an email to eaap@eaap.org

COURSES

Quality in Ruminant Meat and Meat Products

Zaragoza (Spain), 17-21 September 2012

Mediterranean Agronomic Institute of Zaragoza / CIHEAM

E-mail: iamz@iamz.ciheam.org - Web: <http://www.iamz.ciheam.org>

The objective of this course is to provide information on factors determining ruminant carcass and meat quality, its measurement, prediction and manipulation, with the emphasis being on new developments. Food quality issues and consumer behaviour will also be considered. Case studies from the meat sector will illustrate how quality is delivered to the consumer

The deadline for the submission of applications is 2 July 2012.

Upcoming Meetings

Horse nutrition workshop in Lisbon (Portugal), June 2012

EAAP has the pleasure to announce that the Horse Commission organizes, with the important cooperation of the Faculty of Veterinary Medicine of the Technical University of Lisbon, the 6th European Workshop on Equine Nutrition: "Feeding horses with forage based diets and impact of grazing systems on environment" to be held in Lisbon (Portugal), at the Faculty of Veterinary Medicine of the Technical University on 20th – 22nd June 2012 (www.ewen2012.net).

Animal Science meeting in Phoenix (USA), July 2012

The joint annual meeting with American Dairy Science Association, the American Society for Animal Science, the Asociación Mexicana de Producción Animal, the Canadian Society for Animal Science, the Western Section American Society of Animal Science, will be held in Phoenix (Arizona, USA) on July 15th -19th 2012 (www.jtmtg.org/2012)

Just before the main meeting there is a Workshop on Genomic Selection in Livestock from July 9-13, 2012 that will be held at the Sheraton Hotel, Phoenix, AZ. The course instructors are Dorian Garrick, Rohan Fernando and Jack Dekkers. The purpose of the course is to provide graduate students and professionals in animal breeding and genetics with the basic theory and practical application of using whole genome SNP data for genetic evaluation and genome-wide association studies, using mixed linear and Bayesian methods.

On July 15th there is an ASN-ASAS-ADSA Pre-conference on Regulation of Nutritional Intake and Metabolism, in fact the American Society of Animal Science (ASAS), American Dairy Science Association (ADSA) and American Society for Nutrition (ASN) are collaborating on a one-day event, titled Regulation of Nutritional Intake and Metabolism, as pre-conference to the 2012 ADSA-ASAS Joint Annual Meeting. This is the second year that these organizations have partnered on a scientific topic that has implications to both animal and human health.



Dairy Industry Summit in Cape Town (South Africa)

The International Dairy Federation organizes the World Dairy Summit 2012. This is the main dairy farm business management conference (www.wds2012.com) and will be organised in Cape Town on 4th-8th November 2012



News

The Dutch company ForFarmers has just signed a research partnership with DairyCampus, a research structure at the University of Wageningen dedicated to cattle, regarding the relationship between the structure of the cattle diet, their behavior and rumen pH in the framework of a thesis. This particular study will use a pH monitoring system developed by the Austrian smaXtec.

ForFarmers in 2011 became one of the market leaders in animal feeding through the purchase of German and Belgian subsidiaries Dutch Nutreco BV. It is also involved in a research project on reduction of methane emissions in dairy cows

On the other hand smaXtec (www.smaxtec-animalcare.com) started a study with the Institute of Agricultural Research and Training Raumberg-Gumpenstein, a farm in northern Austria and the society ASL German GmbH & Co KG (Company Sensor Development) on the effect of rations stamped on the ADG and health ruminal. It is with the institute Raumberg-Gumpenstein that smaXtec developed a monitoring system of the rumen.

CEA and Fermentalg signed a framework contract for the production of lipids from microalgae in heterotrophic and mixotrophic environment. This agreement between the public body and biotech SME based near Bordeaux (France) will help to facilitate trade in R & D in particular on the conversion of various carbon substrates fat used in animal nutrition. The commercial exploitation of industrial processes developed in this collaboration will be entrusted to Fermentalg.

Fermentalg, founded in 2009, strives to develop the production of molecules of interest, mainly lipids, from microalgae by fermentation. Originally, the company developed a process of culture of microalgae for the feeding of farmed fish. Since 2009 it benefited from funding support from CEA Valorisation in order to develop processes for biofuel production and lipid ingredients rich in omega-3 for feed and food. In 2011 Fermentalg also associated itself with Sofiprotéol in a joint venture for the development of oils rich in omega-3.

The association ISTT (International Society for Transgenic Technologies) organized in February 2013 its 11th international meeting on Transgenic technologies (TT2013) in Guangdong (China).

Among the many topics covered at this meeting, there will be discussions on transgenic livestock, the use of new molecules of DNA modification (nucleases, ZFN, TALEN) as for example in the pig. Steve Fahrenkrug, the CEO of Recombinetics will be participating as speaker. This company has developed chimeric proteins for the modification of the genome of large farm animals and has also signed a license to use Collectis meganuclease.



IGENITY, Merial's subsidiary dedicated to the bovine genome was acquired by Neogen Corp. American Society, which develops and markets many diagnostic products for food security and health. IGENITY will be annexed to GeneSeek, a subsidiary of Neogen already on the market of animal genomics. IGENITY and GeneSeek have worked together on developing Bioinformatics tools necessary for the tests marketed by IGENITY towards the cattle farmers (dairy breeds and beef breeds) on U.S. markets, Canada, Brazil, Argentina and Europe. Neogen employs over 600 people worldwide with a turnover of over \$ 170m in 2011. The company is in full growth and bought 19 different companies since 2000, of which GeneSeek in 2010. In the market for animal health.

The company has developed several kits for pathogen detection, veterinary medicines and disinfectants and some instruments. The Animal Health division is based in Lexington (Kentucky, USA). GeneSeek, the subsidiary specializing in animal genetics and genomics – to which will be attached IGENITY - is based in Lincoln (Nebraska, USA). Since 1998, GeneSeek offers its services in animal genomics (SNP, MAS, Parenting) for livestock. GeneSeek uses chips developed by Illumina for cattle (3K, 50K, HD), pigs (SNP60), sheep (SNP50). The company has also developed its own selection tools of interest in Cattle, pigs, goats and sheep (ranges SeekSire[®], SeekGain[®]) On the other hand IGENITY is present only on the cattle market.

