EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

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COST Action no. FA1002

Farm Animal Proteomics

Cutting Edge of Farm Animal Protein Analysis

2010 | 2014

Objectives

- Establish Europe as a global leader in farm animal proteomics
- Instigate the use of proteomics in study of farm animals and post-harvest alteration to food protein
- Train early-stage researchers in farm animal proteomics
- Develop standard protocols for best application of proteomics in farm animal science and post-harvest analysis of food
- Integrate proteomics in multi-disciplinary approaches to animal and food research
- Integrate farm animal proteomics in systems biology of farm animal and food science
- Disseminate knowledge of farm animal proteomics to European citizens, industry and the research community

Main Achievements

- Action created with 29 COST countries and interaction with 1 near-neighbour and 1 reciprocal country
- Established the Farm Animal Proteomics Website www.cost-faproteomics.org as a central hub for dissemination of knowledge on farm animal proteomics
- Organised and held the two international meetings on Farm Animal Proteomics
- Disseminated knowledge on significant scientific breakthroughs by Action participants at three Workshops in Portugal, Italy & Slovenia
- Seven Short Term Scientific Missions undertaken in 2011, 17 approved for 2012
- Training School on Proteomics for Farm Animals in Luxembourg 2011 for 15 Trainees
- Two books published on proteomic application to farm animals

Food and Agriculture (FA)

Participating countries

BA, BE, BG, CH, CZ, DE, DK, EE, ES, FI, FR, GR, HR, HU, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, SI, SK, SE, TR, UK

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Farm Animal Proteomics Logo

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Working Group activities

Working Group 1

- Second WG 1 meeting held in Vilamoura, Portugal with 12 oral and 7 poster presentations
- Methodology for proteomic analysis of milk, saliva and nasal secretion in farm animals devloped
- Proteomic analysis in models of Leptosirosis and in tick borne diseases of cattle demonstrated
- Applications developed for use in biomarker detection, immune responses, pathogen biology, reproduction, stress and welfare
- Links established to build international collaborative projects and with WG2 and WG3

Working Group 2

- Second WG2 held in Vilamoura, Portugal with 9 oral and 6 poster presentations
- Proteomics investigations being made into food during processing and for food quality from cattle, pigs, poultry, sheep and fish
- Methodology and applications provide for investigation of tenderness of meat, production of cooked meat, sources of milk, quality of fish product
- Links established between international groups and with WG1 and WG3

Working Group 3

- Second WG3 meeting held in Liege, Belgium and Third held in Vilamoura, Portugal UK with 9 oral and 4 poster presentations
- Proteomic procedures developed for species identification and for detection of illegal use of drugs in cattle
- Bioinformatic procedures for interpretation of proteomic data for farm animal application disseminated
- Approaches to the assessment of post-translational modifications of protein in farm animal science developed

Industry participation

Thermo Fisher
Michaela Scigelova
Life Science Mass Spectrometry
Germany
http://www.thermoscientific.com

Pfizer Animal Health
Samuel J. Thevasagayam ,
Business Development,
France
www.animalhealth.pfizer.com

Bio-Rad
Timothy Cross
European Protein Applications
Marketing Manager
Bio-Rad Laboratories Ltd
www.discover.bio-rad.com

and others

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