



**ASSOCIAZIONE SCIENTIFICA DI PRODUZIONE ANIMALE**

**XVIII CONGRESSO NAZIONALE**

*Palermo, 9-12 giugno 2009*

**Posters**

## Session: Animal Breeding and Genetics - Molecular Genetics

### MG1

#### **Genetic tracking of brown bear (*Ursus arctos*) recolonization in Friuli-Venezia Giulia**

Denis Guiatti, Stefano Filacorda

### MG2

#### **Mitochondrial DNA analysis for identification of *Canis lupus* species: a forensic genetic case study**

Daniela Iamartino, Adele Lanza, Federica Corrado, Michele Blasi

### MG3

#### **Unexpected relics of goat (*Capra hircus*) genes in the sheep (*Ovis aries*) genome**

Riccardo Negrini, Francesca Sibella, Lorenzo Bomba, Alessandro Achilli, Paolo Ajmone-Marsan, Marco Pellecchia

### MG4

#### **Gene structure analysis of caprine and ovine Mannose Binding Lectin (MBL)**

Gianfranco Cosenza, Alfredo Pauciullo, Letizia Colimoro, Andrea Mancusi, Anna Lidia Annunziata, Daniela Gallo, Luigi Ramunno

### MG5

#### **Study of SNPs in genes encoding for structural and proteolytic proteins in skeletal muscle of Italian Large White and Italian Duroc pigs**

Roberta Davoli, Silvia Braglia, Greta Gandolfi, Andrea Zappavigna, Camilla Speroni, Paolo Zambonelli, Luca Buttazzoni, Vincenzo Russo

### MG6

#### **Cytogenetic characterization of the yak (*Bos grunniens*) and comparison with cattle (*Bos taurus*)**

Davide Nicodemo, Alfredo Pauciullo, Alberto Castello, Gianfranco Cosenza, Luigi Ramunno, Giacomo Ficco, Jiri Rubes, Leopoldo Iannuzzi, Dino Di Berardino

### MG7

#### **Study of SNP in genes related to fat and energy metabolism and association with some carcass traits in Casertana pig ancient autochthonous genetic type**

Donato Matassino, Silvia Braglia, Marco Comella, Caterina Incoronato, Mariaconsiglia Occidente, Francesca Pane, Rolando Pasquariello, Roberta Davoli

### MG8

#### **Scrapie outbreaks in Sicily: genetic selection choice**

Santo Caracappa, Stefano Reale, Maria Vitale, Vittoria Currò, Placido Alberti, Giuseppina Chiarenza, Daniela Nifosì, Antonella Migliazzo, Fabrizio Vitale

### MG9

#### **Characterization of single nucleotide polymorphisms in BMP15, GDF9, and BMPRI1B genes in Maremmana cattle breed**

Cinzia Marchitelli, Valentina Primi, Alessandro Nardone

**MG10****Identification and validation of SNPs in immune-related genes in goat**

Elisabetta Milanese, Riccardo Negrini, Paola Crepaldi, Letizia Nicoloso, Rosanna Marino, Paolo Ajmone-Marsan

**MG11****Characterization of new genetic polymorphisms within ovine caseins**

Stefania Chessa, Daniela Rignanese, Miluscia Berbenni, Mina Martini, Federica Salari, Gabriella Ceriotti, Anna Caroli

**MG12****Analysis of non-orthologous genes between cow and genomes of other species**

Raffaele Mazza, Francesco Strozzi, Paolo Ajmone-Marsan, John L. Williams

**MG13****Ruminant hemoglobin types and related functional effects**

Rosario Rullo, Ingrid Alloggio, Rosanna Lacinio, Elisa Pieragostini

## Session: Animal Breeding and Genetics - Traceability and Genetic Diversity

### **TGD1**

#### **Does phylogenetic structure of sheep and goat breeds of East-Central Mediterranean reflect a different migration history?**

Lorraine Pariset, Riccardo Negrini, Stéphane Joost, Paolo Ajmone-Marsan, Alessio Valentini, the Econogene Consortium

### **TGD2**

#### **Investigation of coat colour affecting genes in several sheep breeds**

Francesca Beretti, Baldassare Portolano, Stefania Dall'Olio, Valentina Riggio, Vincenzo Russo, Luca Fontanesi

### **TGD3**

#### **Hunting for the grey coat colour determinant in a local pig population: analysis of the *KIT* gene**

Enrico D'Alessandro, Emilio Scotti, Luigi Liotta, Vincenzo Chiofalo, Vincenzo Russo, Luca Fontanesi

### **TGD4**

#### **Allele frequencies of MC1R gene in Modicana and Cinisara breeds: preliminary results**

Anna Maria Guastella, Donata Marletta, Antonio Zuccaro, Andrea Criscione, Salvatore Bordonaro, Giuseppe D'Urso

### **TGD5**

#### **SNPs discovery and genotyping in coat colour genes towards cattle breeds and products traceability**

Letizia Nicoloso, Paola Crepaldi, Elisabetta Milanese, Davide Perini, Paolo Ajmone-Marsan, Riccardo Negrini

### **TGD6**

#### **Analysis of MC1R polymorphism in Sardo-Modicana cattle**

Silvia Sorbolini, Salvatore Piergiacomo Rasso, Antonio Maria Cubadda, Maurizio Altea, Nicolò Pietro Paolo Macciotta

### **TGD7**

#### **Genetic diversity and inbreeding in the Pantesco donkey**

Salvatore Bordonaro, Anna Maria Guastella, Antonio Zuccaro, Andrea Criscione, Flavio Tidona, Donata Marletta

### **TGD8**

#### **Genetic diversity and relationships among Maremmano horses and European horse breeds**

Michela Felicetti, Ottmar Distl, Virginie Lampe, Sonja Ehrhardt, Katia Cappelli, Stefano Capomaccio, Maurizio Silvestrelli, Camillo Pieramati, Andrea Verini Supplizi

### **TGD9**

#### **STRs and SNPs for pig traceability purposes**

Michele Blasi, Daniela Iamartino, Graziella Bongioni, Rolando Pasquariello, Francesca Pane, Anna Maria Guastella, Donato Matassino

### **TGD10**

#### **Leccese sheep breed from Apulia: evidence of genetic sub-structuring from STR loci**

Francesca Cecchi, Elena Ciani, Elisabetta Castellana, Elisa Mazzanti, Roberta Ciampolini

### **TGD11**

#### **Morphological and genetic characterization of Nero Siciliano pig population reared in the Nebrodi area**

Anna Maria Guastella, Salvatore Bordonaro, Antonio Zuccaro, Donata Marletta, Andrea Criscione, Giuseppe D'Urso

### **TGD12**

#### **Polymorphism of candidate genes for fatty acids composition in the Piemontese cattle breed**

Liliana Di Stasio, Stefano Sartore, Claudio Lisa

### **TGD13**

#### **Analysis of genetic structure of Laticauda sheep breed, Bagnolese sheep ancient autochthonous genetic type and other sheep breeds with microsatellite markers: preliminary results**

Donato Matassino, Nadia Castellano, Roberta Ciampolini, Elena Ciani, Mariaconsiglia Occidente, Francesca Pane, Rolando Pasquariello, Antonio Muscio

## Session: Animal Breeding and Genetics - Quantitative Genetics

### QG1

#### **Relationship of Body Condition Score with productive traits and BCS prediction function**

Erika Frigo, Antonia Bianca Samoré, Alessandro Bagnato, Daniele Vicario, Ottavia Pedron

### QG2

#### **Genetic correlation among weight gain, milk production and type traits in Valdostana cattle**

Rita Rizzi, Veruska Blanchet, Mario Vevey, Antonia Bianca Samoré, Alessandro Bagnato

### QG3

#### **Variance component estimation for SCS in different local breeds and species**

Antonia Bianca Samoré, Mauro Penasa, Valentina Riggio, Fausta Schiavini, Erika Frigo, Denis Pretto, Nadia Guzzo, Roberto Mantovani, Baldassare Portolano, Luca Fontanesi, Martino Cassandro, Alessandro Bagnato

### QG4

#### **Pedigree analysis in the Italian Haflinger horse**

Antonia Bianca Samoré, Rita Rizzi, Alessandro Bagnato

### QG5

#### **Developing a new mating plan for dairy cows that takes into account expected inbreeding levels**

Fabiola Canavesi, Gerald B. Jansen, Maurizio Marusi

### QG6

#### **Morphological characteristics of “Bracco Italiano” dog**

Roberta Ciampolini, Francesca Cecchi, Assunta Bramante, Fabio Casetti, Silvano Presciuttini

### QG7

#### **Phenotypical evaluation of “Cane da Pastore delle Alpi” canine population**

Stefano Paolo Marelli, Manuela Michelazzi, Elena Colombo, Luca Della Noce, Luigi Guidobono Cavalchini

## Session: Animal Breeding and Genetics - Gene Expression and Genetic Markers

### GEM1

#### **Analysis of BTA6 in Bruna Italiana and Pezzata Rossa cattle assayed with 2,535 SNPs**

Paolo Ajmone-Marsan, Rosanna Marino, Davide Perini, Francesca Sibella, Ezequiel Luis Nicolazzi, Lorraine Pariset, Stefania Dall'Olio, Luca Fontanesi, Alessandro Bagnato, Fausta Schiavini, Antonia Bianca Samoré, Tullio Luttmann, Enrico Santus, Michele Blasi, Nicolò Pietro Paolo Macciotta, Alessandro Nardone

### GEM2

#### **Assessment of 29 candidate genes for milk traits in Italian dairy cattle**

Lorraine Pariset, Anna Caroli, Stefania Chessa, Luca Fontanesi, Vincenzo Russo, Alessandro Bagnato, Fausta Schiavini, Antonia Bianca Samoré, Maria Feligini, Ivan Bonizzi, Daniele Vicario, Attilio Rossoni, Stefano Sangalli, Rosanna Marino, Davide Perini, Ezequiel Luis Nicolazzi, Nicolò Pietro Paolo Macciotta, Paolo Ajmone-Marsan

### GEM3

#### **Genetic structure of Italian beef cattle breeds based on a 54,000 SNP panel**

Alessio Valentini, Roberta Guarcini, Andrea Quaglino, Tullio Luttmann, Daniele Vicario, Andrea Albera, Francesco Filippini, Michele Blasi, Silvia Bongiorno, Mariasilvia D'Andrea, Fabio Pilla, Maria Federica Trombetta, Alessandro Nardone

### GEM4

#### **Development of a SNP panel for bovine genotyping**

Bianca Castiglioni, Daniela Iamartino, Paola Cremonesi, Michele Blasi, Giulio Pagnacco, Stefania Chessa

### GEM5

#### **Effect of non-random sampling of SNPs on the estimation of population genetic parameters**

Riccardo Negrini, Raffaele Mazza, Licia Colli, Marco Pellecchia, Lorenzo Bomba, Alessandra Stella, John L. Williams, Paolo Ajmone-Marsan

### GEM6

#### **High resolution mapping of QTL affecting milk somatic cell count in the Italian Brown Swiss breed**

Fausta Schiavini, Antonia Bianca Samoré, Roberta Bottari de Castello, Patrizia Milesi, Attilio Rossoni, Marlies Dolezal, Abraham Korol, Ruth Tal, Ehud Lipkin, Moshe Soller, Alessandro Bagnato

### GEM7

#### **SNPs in candidate genes for meat production traits in Italian cattle and sheep**

Emiliano Lasagna, Vincenzo Landi, Francesco Filippini, Salvatore Murru, Stefano Sangalli, Francesca Maria Sarti, Francesco Panella

### GEM8

#### **Association study between polymorphisms in 16 candidate genes and milk production traits in Reggiana dairy cattle**

Emilio Scotti, Luca Fontanesi, Alessandro Bagnato, Stefania Dall'Olio, Vincenzo Russo

### **GEM9**

#### **The porcine *TBC1D1* gene: mapping, SNP identification, and association study with meat, carcass and production traits in Italian Large White pigs**

Michela Colombo, Luca Fontanesi, Lucia Tognazzi, Emilio Scotti, Luca Buttazzoni, Roberta Davoli, Vincenzo Russo

### **GEM10**

#### **Association study between SNP in cathepsin genes and production traits in Italian Duroc pigs**

Camilla Speroni, Luca Fontanesi, Emilio Scotti, Luca Buttazzoni, Stefania Dall'Olio, Roberta Davoli, Vincenzo Russo

### **GEM11**

#### ***In silico* large scale discovery of SNPs to fine map meat quality QTL regions in porcine genome**

Paolo Zambonelli, Roberta Davoli, Silvia Braglia, Marco Comella, Vincenzo Russo

### **GEM12**

#### **Investigation of candidate genes for litter size in Italian Large White sows**

Stefania Dall'Olio, Luca Fontanesi, Lucia Tognazzi, Luca Buttazzoni, Maurizio Gallo, Vincenzo Russo

### **GEM13**

#### **Genome wide analysis of the alternative splicing pattern in cows**

Mattia D'Antonio, Tiziana Castrignanò, Flavio Mignone, Giovanni Chillemi, Alessio Valentini, Graziano Pesole

### **GEM14**

#### **An integrated bioinformatic platform to query the pig genome**

Raffaele Fronza, Luca Fontanesi, Vincenzo Russo, Rita Casadio

### **GEM15**

#### **Multivariate meta-analysis of QTL mapping studies**

Giustino Gaspa, Davide Perini, Rosanna Marino, Raffaele Mazza, Silvia Sorbolini, Roberto Steri

### **GEM16**

#### **Investigation on SNPs and expression study of porcine *ADRP* gene in different pig breeds**

Roberta Davoli, Greta Gandolfi, Silvia Braglia, Marco Comella, Emilio Scotti, Luca Buttazzoni

### **GEM17**

#### **SNP detection in candidate genes for milk fat traits in goat**

Elisabetta Milanese, Letizia Nicoloso, Paola Crepaldi

### **GEM18**

#### **Microarray analysis of differential expressed genes during *Staphylococcus aureus* mastitis in dairy goats**

Bianca Castiglioni, Giuliano Pisoni, Paola Cremonesi, Alessandra Stella, Sam Genini, Elisabetta Giuffra, Paolo Moroni

### **GEM19**

#### **A microarray technology for SNP detection in goat milk protein genes**

Stefania Chessa, Daniela Rignanese, Marta Raschetti, Gabriella Ceriotti, Anna Caroli, Giulio Pagnacco, Bianca Castiglioni

### **GEM20**

#### **Differential gene expression in muscle between Casertana and Large White pig breeds**

Alessandra Crisà, Gianluca Prosperini, Susana Bueno, Giovanni Chillemi, Mariasilvia D'Andrea, Fabio Pilla, Alessio Valentini

### **GEM21**

#### **Expression analysis of porcine *UPG2* gene splice variants in skeletal muscle tissue**

Paolo Zambonelli, Silvia Braglia, Andra Zappavigna, Marco Comella, Vincenzo Russo, Roberta Davoli

### **GEM22**

#### **Differences in *Stearoyl-CoA-Desaturase (SCD)* gene expression between Casertana and Large White pig breeds associated with gene polymorphisms**

Mariasilvia D'Andrea, Angela Campanella, Fabio Pilla

### **GEM23**

#### **Annotation and validation of 390 novel bovine miRNAs**

Raffaele Mazza, Francesco Strozzi, Rosanna Marino, Davide Perini, Lorenzo Bomba, Andrea Minuti, John L. Williams, Paolo Ajmone-Marsan

### **GEM24**

#### **Preliminary analyses of biomarkers of the exposure to dioxin and dioxin-like substances in dairy cattle**

Veronica Spalenza, Roberto Rasero, Paola Sacchi, Dominga Soglia, Leopoldo Iannuzzi, Carlo Nebbia, Flavia Girolami, Davide Bertarelli

## Session: Nutrition and Feeding

### NF1

#### **Monitoring CP usage in dairy cattle rations by using milk urea as indicator in a nitrate vulnerable area**

Alberto Stanislao Atzori, Patrizia Carta, Antonello Cannas

### NF2

#### **Effects of pelleting on rumen fermentability of different commercial concentrate mixtures**

Paolo Bani, Giorgia Astorri, Matteo Guerreschi, Valentina Ficuciello

### NF3

#### **Chemical composition and nutritive value of winter legume-cereal mixture silages**

Emanuele Bianco, Domenico Davanzo, Emilio Simonetti, Cristina Zanfi, Mauro Spanghero

### NF4

#### **Performance of growing-finishing Nero Siciliano pigs fed two different protein levels**

Biagina Chiofalo, Alessandro Zumbo, Vincenzo Chiofalo, Luigi Liotta

### NF5

#### **Comparison of ACE inhibitor effect in cow, buffalo and goat milk by *in silico* and *in vitro* digestion of caseins**

Michela Di Giovanni, Cinzia Marchitelli, Francesco Cicconardi, Umberto Bernabucci, Alessandro Nardone

### NF6

#### **Forage quality and nutritive value of several warm-season grasses species in a Mediterranean area**

Adriana Di Trana, Anna Rita Rivelli, Piergiorgio Gherbin

### NF7

#### ***In vitro* pig digestibility of protein rich feeds processed by different systems**

Gianluca Galassi, Luca Malagutti, Vincenzo D'Ardes, Paolo Bani

### NF8

#### **Digestibility and nitrogen balance of diets based on faba bean, pea seeds and soybean meal in sheep**

Gian Battista Liponi, Lucia Casini, Sergio De Vincenzi, Domenico Gatta

### NF9

#### **Evaluation of different models for the prediction of dry matter intake in lactating goats**

Luca Rapetti, Stefania Colombini, Luca Malagutti, Gianluca Galassi

### NF10

#### **Blood methionine concentration in dairy cows supplemented with rumen-protected methionine or two methionine hydroxy analogs**

Francesco Masoero, Lucia Fiorentini, Maurizio Moschini, Gianfranco Piva, Antonio Gallo

**NF11**

**Organic farming: use of chickpeas (*Cicer arietinum*) in Maremmana young bull diets**

Felicia Masucci, Antonio Zullo, Giulia Esposito, Maria Luisa Varricchio, Franco Paoletti, Antonio Di Francia

**NF12**

**The milk urea content in dairy goat farms of Lombardy**

Luca Rapetti, Guido Bruni, Giorgio Zanatta, Stefania Colombini

**NF13**

**Determination of Silymarin “*in vitro* ruminal degradability” by HPLC/ESI/MS method**

Federico Righi, Martina Cirilini, Gerardo Palla, Simone Romanelli, Marco Renzi, Afro Quarantelli

**NF14**

**Effect of high oral doses of Nitrate on salivary recirculation of nitrates and nitrites in young pigs**

Paolo Trevisi, Luisa Casini, Irma Nisi, Stefano Messori, Paolo Bosi

**NF15**

**Effect of conjugated linoleic acid supplementation on energy balance and efficiency during transition period of dairy cows**

Erminio Trevisi, Paolo Grossi, Alessandra Gubbiotti, Giuseppe Bertoni

**NF16**

**Effect of tryptophan supplementation on the expression of some regulatory genes of fundic mucosa in weaned pigs**

Paolo Trevisi, Irma Nisi, Paolo Bosi

## Session - Dairy Production

### DP1

#### **Feed intake, milk composition and cheese-making properties in Girgentana grazing goats with different genotype at $\alpha$ s1-casein and $\kappa$ -casein**

Adriana Bonanno, Antonino Di Grigoli, Maria Teresa Sardina, Gabriele Tornambè

### DP2

#### **Milk coagulation ability map of Veneto Region**

Martino Cassandro, Denis Pretto, Giampaolo Cocca, Massimo De Marchi, Riccardo Dal Zotto

### DP3

#### ***In silico* analysis of caseinophosphopeptides in ruminants**

Stefania Chessa, Omar Bulgari, Daniela Rignanese, Giovanni Tulipano, Anna Caroli

### DP4

#### **Prediction of milk coagulation properties in herd milk sample using Mid-Infrared Spectroscopy**

Massimo De Marchi, Denis Pretto, Riccardo Dal Zotto, Martino Cassandro

### DP5

#### **Microbiological characteristics of Trentingrana cheese after nine months of ripening**

Elena Franciosi, Luca Monfredini, Luca Settanni, Agostino Cavazza, Elisa Poznanski

### DP6

#### **Relationship between milkability traits recorded with flowmeters and udder type traits in Italian Holstein Friesian cows**

Erika Frigo, Marco Laurenti, Antonia Bianca Samorè, Alessandro Bagnato, Ottavia Pedron

### DP7

#### **Characterization of Pecorino Siciliano in relation to the production area**

Francesca La Terra, Paolo Berzaghi, Mario Manenti, Stefania La Terra, Stefania Carpino, Giuseppe Licitra

### DP8

#### **Fatty acid profile of milk fat in goat supplemented with iodized salt**

Maria Grazia Manca, Anna Nudda, Roberto Rubattu, Roberta Boe, Giuseppe Pulina

### DP9

#### **Effect of ripening time on lipid composition of 'Caciocavallo' cheese obtained from Podolian cattle Genetic Type. Preliminary results**

Donato Matassino, Nadia Castellano, Luigina Rillo, Antonio Trani, Giovanna Varricchio, Aldo Di Luccia

### DP10

#### **Shearing influences the milk fatty acid profile of dairy ewes**

Salvatore Pier Giacomo Rasso, Maria Grazia Manca, Ana Helena Dias Francesconi, Alessandro Mereu, Anna Nudda

**DP11****Iodine supplementation in dairy ewes nutrition: effect on milk production traits and milk iodine content**

Pierlorenzo Secchiari, Marcello Mele, Monica Frigeri, Andrea Serra, Giuseppe Conte, Alice Pollicardo, Giorgio Formisano, Fabrizio Aghini-Lombardi

**DP12****Milk fatty acids of cows grazing a mountain diversified grassland is highly affected by the maturity stage of the grass**

Gabriele Tornambé, Anne Ferlay, Yves Chilliard, Philippe Pradel, Adriana Bonanno, Bruno Martin

**DP13****Quality evaluation of cheese from raw or pasteurized milk of ewes grazing sulla forage (*Hedysarum coronarium L.*) for different daily time**

Gabriele Tornambé, Antonino Di Grigoli, Francesca Mazza, Maria Luigia Alicata, Adriana Bonanno

**DP14****Influence of extruded linseed on milk and cheese fatty acid composition in dairy cows**

Maria Federica Trombetta, Simona Mattii, Giorgia Canestrai, Sara Priori, Luciano Terni, Adalberto Falaschini

## Session: Meat Production

### MP1

**Effect of finishing on concentrate and hay or by grazing on performance, carcass characteristics and meat quality of Moroccan Timahdite-breed lambs**

Abdelilah Araba, Pierre Morand Fehr, Pierre Bas, Ahmed El Aich

### MP2

**Liveweight estimation from body measures in “Nero di Parma” pigs**

Valentino Beretti, Paola Superchi, Raffaele Manini, Claudio Cervi, Alberto Sabbioni

### MP3

**Housing system and meat quality in organic Podolian Young bulls**

Ada Braghieri, Antonio Girolami, Antonella Sodo, Amelia Maria Riviezzi, Giuseppe Marsico, Fabio Napolitano

### MP4

**Genetic type and ageing effects on textural and sensory properties of beef**

Ada Braghieri, Nicoletta Piazzolla, Antonio Girolami, Antonio Muscio, Rosaria Marino

### MP5

**Evaluation of dry-cured ham: preference mapping from different nationality panels (Italy and France)**

Susanna Cannata, Michele Musella, Karine Meteau, Jacques Mourot, Paolo Baldini, Carlo Corino

### MP6

**Dietary acorns vs. barley in “Nero Siciliano” pigs: effect on the volatile compounds of salami**

Ambra Di Rosa, Biagina Chiofalo, Vittorio Lo Presti, Alessandro Zumbo

### MP7

**Influence of rearing system on carcass traits and metacarpal bones characteristics of Italian Merino lambs**

Giuseppe Maiorano, Daniela Cianciullo, Antonia Ciarlariello, Angelo Manchisi

### MP8

**The breeding of the Apulo-calabrian swine in Calabria: current technical and economical analysis and prospect of development**

Agata Nicolosi, Luca Racinaro, Francesco Tromby, Raffaele C. Palermo, Pietro Micari

### MP9

**Meat quality of Fabrianese heavy lambs**

Paolo Polidori, Antonio Ortenzi, Gianvincenzo Lebboroni

### MP10

**The Apulo-calabrian swine: a successful reality with a great outlook. The expansion and consistency of breeding in the Calabrian territory**

Luca Racinaro, Virginia Sarullo, Annamaria Marzullo, Jurgens Robledo, Pietro Micari

**MP11**

**Present situation and prospects of a new farm located in the province of Reggio Calabria and devoted to Apulo-calabrian swine raising**

Luca Racinaro, Virginia Sarullo, Alessandro Zumbo, Francisco Gonzales, Pietro Micari

**MP12**

**Chemical and fatty acid characteristics of meat of Podolian bulls slaughtered at different ages**

Simona Tarricone, Giuseppe Marsico, Marco Ragni, Maria Grazia Forcelli, Francesco Pinto, Arcangelo Vicenti, Angelo Rasulo

**MP13**

**Influence of organic breeding on heavy pig live performance, carcass and meat quality**

Maria Federica Trombetta, Giorgia Canestrari, Sara Priori, Simona Mattii

**MP14**

**A survey about bovine meat quality in Lazio region**

Federico Vincenti, Antonella Ficco, David Meo Zilio, Michela Contò, Maurizio Mormile, Sebastiana Failla

## Session: Animal Welfare, Health and Behaviour

### **WHB1**

#### **Feeding behaviour and metabolic condition of dairy cows during early lactation**

Luigi Calamari, Francesca Petrera, Simone Cogrossi, Luigi Stefanini

### **WHB2**

#### **Productive performances, plasmatic oxidative status and some blood parameters in suckling lambs supplemented with verbascoside**

Donato Casamassima, Marisa Palazzo, Tiziana Presutti, Gina Evelina Colella

### **WHB3**

#### **Effect of the farrowing crate floor on some behavioural and productive parameters of suckling piglets**

Donato Casamassima, Rossella Pizzo, Marisa Palazzo, Andrea Simoni

### **WHB4**

#### **Effect of diet supplementation with viable and dead yeasts on sheep faecal microflora**

Roberta Comunian, Antonio Paba, Elisabetta Daga, Ilaria Dupré, Edmondo Costa, Giovanni Molle, Maria Francesca Scintu

### **WHB5**

#### **Flaxseed supplementation can sustain immune function of cows in hot environment**

Alessandra Marzano, Mariangela Caroprese, Marzia Albenzio, Antonella Santillo, Annarita Bruno, Agostino Sevi

### **WHB6**

#### **A non invasive method to measure the lameness in dairy cows**

Veronica Redaelli, Stefano Tarantino, Cristian Ricci, Fabio Luzi, Alfonso Zecconi, Marina Verga

### **WHB7**

#### **Effect of weaning on total antiradical activity in piglets**

Raffaella Rossi, Grazia Pastorelli, Susanna Cannata, Carlo Corino

### **WHB8**

#### **Homeopathic treatments during early lactation in Buffalo cows**

Fiorella Sarubbi, Rodolfo Baculo, Domenico Balzarano, Giuseppe Auriemma

## Session: Horse Production

### HP1

#### **Exercise influence on gene-expression profile in endurance horse PBMC**

Katia Cappelli, Eric Barrey, Stefano Capomaccio, Michela Felicetti, Maurizio Silvestrelli, Andrea Verini Supplizi

### HP2

#### **Preliminary survey on gross composition and nitrogen fraction distribution of Ragusano donkey milk with different protein patterns**

Andrea Criscione, Flavio Tidona, Antonio Zuccaro, Salvatore Bordonaro, Anna Maria Guastella, Gabriella Iannolino, Donata Marletta

### HP3

#### **Influence of extruded linseed supplementation on ass milk quality**

Adalberto Falaschini, Giorgia Canestrari, Serena Mantovani, Andrea Panciroli, Maria Federica Trombetta

### HP4

#### **Effects of artificial photoperiod and $\beta$ -carotene administration on the resumption of the mare's oestrous activity**

Adalberto Falaschini, Roberta Viggiani, Pier Attilio Accorsi, Giorgia Canestrari, Francesco Parmeggiani, Maria Federica Trombetta

### HP5

#### **Preliminary results on the donkey salami made in Sicily.**

Giuseppe Maniaci, Cristina Giosuè, Francesca Mazza, Gabriella Iannolino, Maria Luisa Scatassa, Santo Caracappa, Marco Alabiso

### HP6

#### **Histological characteristics of the longissimus dorsi muscle in the italian and polish crossbreed horse meat**

Francesco Nicastro, Davide De Marzo, Raffaella Gallo, Fabio Zezza

### HP7

#### **Infrared video-thermography of sport horses on a high speed treadmill: a pilot study**

Veronica Redaelli, Michela Minero, Francesco Ferrucci, Enrica Zucca, Fabio Luzi, Corrado Carezzi, Marina Verga

### HP8

#### **Epidermal Growth Factor (EGF) in mare and ass milk: a preliminary investigation**

Marco Scafizzari, Francesco Giannico, Oriana Potere, Antonio Trani, Maria Antonietta Colonna, Lelio Zezza, Gino Vonghia, Anna Caputi Jambrenghi

### HP9

#### **Morphological traits of the "Indigeno Siciliano" horse**

Alessandro Zumbo, Ambra R. Di Rosa, Costantino Greco, Salvatore Bordonaro, Andrea Truscelli

## Session: Poultry and Rabbit Production

### PRP1

#### **In ovo prebiotic administration – preliminary results**

Marek Bednarczyk, Krzysztof Gulewicz, Giuseppe Maiorano, Katarzyna Kasperczyk, Mariusz Urbanowski

### PRP2

#### **Phenotypic characterization of the Italian chicken breed *Mericanel della Brianza***

Silvia Cerolini, Chiara Cassinelli, Maria Grazia Mangiagalli, Luigi Guidobono Cavalchini, Stefano Marelli, Luisa Zaniboni

### PRP3

#### **Correlation between different physiological parameters (hormonal, oxidative, immune) in Italian poultry breeds**

Alessandro Dal Bosco, Cecilia Mugnai, Francesca M. Sarti, Livia Moscati, Lorenzo Battistacci, Valentina Ferrante, Cesare Castellini

### PRP4

#### **Structural changes of turkey spermatozoa after cryopreservation with the pellets method: a Scanning Electron Microscopy study**

Nicolaia Iaffaldano, Lucia Maiuro, Gregorio Petrosino, Maria Pina Rosato

### PRP5

#### **Assessment of microbial content of turkey (*Meleagris gallopavo*) semen after cryopreservation by the pellet method**

Nicolaia Iaffaldano, Anna Reale, Elena Sorrentino, Raffaele Coppola, Maria Pina Rosato

### PRP6

#### **Effect of the pellet cryopreservation method on the post-thaw recovery of *Salmonella* spp. experimentally inoculated in turkey (*Meleagris gallopavo*) semen**

Nicolaia Iaffaldano, Anna Reale, Elena Sorrentino, Raffaele Coppola, Maria Pina Rosato

### PRP7

#### **Evaluation of welfare in Italian poultry breeds based on genetic parameters**

Emiliano Lasagna, Vincenzo Landi, Francesca Perella, Stefano Paolo Marelli, Genciana Terova, Luigi Guidobono Cavalchini, Francesca Maria Sarti

### PRP8

#### **Technological characteristics of broiler breast meat processing in Sicily (Italy)**

Luigi Liotta, Enrico D'Alessandro, Biagina Chiofalo, Antonino Messina, Alessandro Zumbo, Vincenzo Chiofalo

### PRP9

#### **Meat quality of quail from different genetic groups**

Giuseppe Maiorano, Leonardo Costanza, Andrea Gentile, Sebastian Knaga, Andrzej Witkowski, Marek Bednarczyk

### **PRP10**

#### **Population structure analysis in some Italian chicken breeds**

Stefano Paolo Marelli, Maria Cristina Cozzi, Maria Giuseppina Strillacci, Giulia Pertica, Michele Polli, Maria Longeri, Luigi Guidobono Cavalchini

### **PRP11**

#### **Chicken sperm cryopreservation by the pellet method: study on sperm working concentration**

Luisa Zaniboni, Chiara Cassinelli, Maria Grazia Mangiagalli, Silvia Cerolini

### **PRP12**

#### **Identification of the causative mutation of the black non-agouti coat colour phenotype in the domestic rabbit (*Oryctolagus cuniculus*)**

Luca Fontanesi, Lionel Forestier, Daniel Allain, Séverine Deretz, Marco Tazzoli, Emilio Scotti, Francesca Beretti, Vincenzo Russo, Ahmad Oulmouden

### **PRP13**

#### **An interdisciplinary approach to investigate the *English spotting* locus and its association with megacolon in the domestic rabbit: a new putative model of enteric neuronal dysfunction**

Luca Fontanesi, Maurizio Mazzoni, Maria Simonetta Fausone-Pellegrini, Paolo Clavenzani, Manuela Vargiolu, Emilio Scotti, Roberto Chiocchetti, Alessandra Gori, Giovanni Romeo, Vincenzo Russo, Vincenzo Stanghellini, Giovanni Barbara, Roberto De Giorgio

### **PRP14**

#### ***In vitro* qualitative characteristics of rabbit spermatozoa after 120 h of solid storage at 5°C and 15°C**

Nicolaia Iaffaldano, Angelo Manchisi, Mario Gambacorta, Maria Pina Rosato

### **PRP15**

#### **Lengthening of the remating interval improves body condition and reproduction efficiency of lactating rabbit does**

Maria Laura Marongiu, Alessandro Gulinati, Giovanni Bomboi, Pietro Sechi, Basilio Floris

### **PRP16**

#### **Evaluation of polymorphism in rabbit FAS and C-KIT genes as a tool for the study of male fertility**

Elisabetta Milanese, Antino Carnevali, Maria Grazia Mangiagalli, Valentina Signorini, Franca Porcelli, Valentina Cesari, Daniela Meggiolaro

### **PRP17**

#### **Meat quality of outdoor reared rabbits: effect of group size**

Gisella Paci, Maria D'Agata, Claudia Russo, Cristina Mozzoni, Giovanna Prezioso

### **PRP18**

#### **Chemical and nutritive characteristics of companion rabbit petfoods available in the Italian market**

Rebecca Ricci, Alberto Sartori, Clara Palagiano, Antonella Dalle Zotte

### **PRP19**

#### **Rearing system and performance of wild rabbits in Sicily: preliminary results**

Alessandro Zumbo, Ambra Di Rosa, Fabio Zimbardo, Riccardo Fiumanò, Luigi Liotta

## Session: Aquaculture

### A1

#### **New species for freshwater aquaculture: preliminary results on small cyprinids rearing.**

Matteo Calligaris, Antonella Stravisi, Francesca Tulli, Maria Messina

### A2

#### **Novel application of LED lamp technology in crustacean farming**

Edo D'Agaro, Antonella Stravisi

### A3

#### **Bacterial flora associated with the digestive tract of gilthead seabreams reared in floating cages in the Alghero Bay (North western Sardinia, Italy): preliminary results**

Rosanna Floris, Gianni Meloni, Nicola Fois, Antonio Pais

### A4

#### **Effect of different dietary lipid sources on rainbow trout fillet fatty acid profile**

Laura Gasco, Francesco Gai, Carola Lussiana, Giovanni Battista Palmegiano, Ivo Zoccarato

### A5

#### **Alpine and Northern European arctic charr (*Salvelinus alpinus*) populations analyzed by means of mitochondrial control region sequences and nuclear AFLP markers**

Riccardo Negrini, Marco Pellecchia, Fatima Chegdani, Francesca Sibella, Francesco Nonnis, Marzano, Andrea Gandolfi, Stella Grando, Paolo Ajmone Marsan, Licia Colli

### A6

#### **Nutritional and quality traits of *Chamelea gallina* (Linnaeus, 1758) collected along the coastal area of Barletta (Adriatic Sea, Italy)**

Marco Ragni, Laura Di Turi, Anna Caputi Jambrenghi, Mariateresa Lastilla, Stefania Sanapo, Luca Ceriola, Gino Vonghia, Arcangelo Vicenti

### A7

#### **Establishment of primary hepatocyte cultures from marine Teleostei as a new experimental *in vitro* model for aquaculture research.**

Maria Pia Santacroce, Valentina Zacchino, Elisabetta Merra, and Gerardo Centoducati

### A8

#### **Growth performance of common sole (*Solea solea*) fed semi-moist diets supplemented with different feeding attractants-stimulants**

Emilio Tibaldi, Matteo Calligaris, Roberto Salvatori, Francesca Tulli, Maria Messina