



# #ASPA2017

22<sup>nd</sup> Congress of the Animal Science and Production Association

June 13-16, 2017 - Perugia

## AGENDA FOR POSTER PRESENTATIONS

### ANIMAL BREEDING AND GENETICS

Salvatore Mastrangelo, Maria Teresa Sardina, Marco Tolone, Rosalia Di Gerlando, Anna Maria Sutera, Luca Fontanesi, Baldassare Portolano <b><i>Distribution of functional variants within runs of homozygosity in four Italian cattle breeds</i></b>	P001
Sven Menčik, Marija Špehar, Željko Mahnet, Dominik Knežević, Mario Ostović, Valentino Beretti, Paola Superchi, Alberto Sabbioni <b><i>Litter size traits in Black Slavonian and Nero di Parma pig breeds: effects of farrowing management and sow number per herd</i></b>	P002
Michela Ablondi, Attilio Rossoni, Chiara Nicoletti, Alberto Sabbioni <b><i>A methodology for the parentage diagnosis of the Italian Brown breed</i></b>	P003
Liliana Di Stasio, Antonino Duchi, Alfredo Pauciullo <b><i>Biodiversity in tench populations of Sicily</i></b>	P004
Luiza Chojnacka-Puchta, Dorota Sawicka, Grazyna Plucienniczak, Marek Bednarczyk <b><i>Lipofection conditions of CHO-K1 cells with the use of two transposon systems</i></b>	P005
Gianfranco Cosenza, Barbara Auzino, Roberta Ciampolini, Daniela Gallo, Marco Iannaccone, Rosanna Capparelli, Alfredo Pauciullo <b><i>Genetic variability detected at the (c-type) milk lysozyme encoding gene in donkey</i></b>	P006
Gianfranco Cosenza, Luigi Ramunno, Daniela Gallo, Marco Iannaccone, Rosanna Capparelli, Meichao Gu, Alfredo Pauciullo <b><i>First marker discovery in ACACA gene and association study with milk yield in Mediterranean river buffalo</i></b>	P007
Marco Iannaccone, Marina Papaianni, Andrea Fulgione, Flora Ianniello, Daniela Gallo, Gianfranco Cosenza, Rosanna Capparelli <b><i>The interleukin-10 polymorphism g.3936 G&gt;A is uncoupled with bovine tuberculosis susceptibility in water buffalo (Bubalus bubalis)</i></b>	P008
Sara Albarella, Nadia Musco, Emanuele D'Anza, Deborah Frate, Vincenzo Peretti, Francesca Ciotola <b><i>Effects of diets rich in β-glucans on chromosome stability of peripheral blood lymphocytes of pigs</i></b>	P009
Meichao Gu, Gianfranco Cosenza, Yong Guo, Liliana Di Stasio, Alfredo Pauciullo <b><i>Complex transcriptomic pattern identified at river buffalo DGAT1</i></b>	P010



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<p>Alessandra Crisà, David Meo Zilio, Roberto Steri, Gennaro Catillo, Luca Buttazzoni</p> <p><b><i>Establishment of a crossbreed Simmental x Holstein experimental herd and first assessment of heterosis effects on technical and biological parameters</i></b></p>	P011
<p>Mario Barbato, Marcello Del Corvo, Tad S. Sonstegard, Paolo Ajmone-Marsan</p> <p><b><i>Signals of adaptive introgression between European taurine and indicine cattle revealed by local ancestry inference</i></b></p>	P012
<p>Marco Tolone, Maria Teresa Sardina, Rosalia Di Gerlando, Salvatore Mastrangelo, Anna Maria Sutera, Baldassare Portolano</p> <p><b><i>A pipeline for variants discovery using next-generation DNA sequencing data</i></b></p>	P013
<p>Daniela Finizio, Antonino Di Grigoli, Carmelisa Valluzzi, Paola Di Gregorio, Adriana Di Trana, Andrea Rando, Giuseppe Maniaci, Marco Alabiso, Adriana Bonanno</p> <p><b><i>Effect of CSN1S1 G allele on some characteristics of milk produced by Cinisara cows</i></b></p>	P014
<p>Mayra Mercedes Gómez, Vincenzo Landi, Amparo Martínez, José Manuel León, Maria Antonia Revidatti, José Luis Vega-Pla, Juan Vicente Delgado, BioHorse Consortium</p> <p><b><i>The genetic structure of Hispano-Arabe horse in the Spanish context</i></b></p>	P015
<p>Vincenzo Landi, Mayra Mercedes Gómez, Amparo Martínez Martínez, Jordi Jordana, Anna Castelló, Javier Fernández, Juan Vicente Delgado, Marcel Amills</p> <p><b><i>Capramur project: Genomic analysis of the genetic determination of milk yield, composition and body condition and viability in Murciano-Granadina goats</i></b></p>	P016
<p>Javier Forero, Mayra Mercedes Gómez, Vincenzo Landi, Amparo Martinez Martínez, Juan Vicente Delgado</p> <p><b><i>Preliminary results of the project "backcross recovery and conservation of the Iberian pig variety Manchado de Jabugo"</i></b></p>	P017
<p>Valerio Joe Utzeri, Orsolya Ivett Hoffmann, Anisa Ribani, Giuseppina Schiavo, Luca Fontanesi</p> <p><b><i>A genomic landscape of mitochondrial DNA insertions in the rabbit nuclear genome</i></b></p>	P018
<p>Samuele Bovo, Gianluca Mazzoni, Flaminia Fanelli, Marco Mezzullo, Giuseppina Schiavo, Giuliano Galimberti, Francesca Bertolini, Stefania Dall'Olio, Uberto Pagotto, Luca Fontanesi</p> <p><b><i>Comparative analysis of metabolomics profiles of plasma and serum in pigs</i></b></p>	P019
<p>Stefano Cheloni, Giuseppina Schiavo, Graham Etherington, Federica Di Palma, Luca Fontanesi</p> <p><b><i>Mining 116 pig genomes to identify putative functional mutations in candidate genes for economically relevant traits</i></b></p>	P020
<p>Giuseppina Schiavo, Francesca Bertolini, Mariasilvia d'Andrea, Maurizio Gallo, Luca Buttazzoni, Luca Fontanesi</p> <p><b><i>Genome wide association studies for meat quality, carcass and performance traits in Italian Duroc pigs</i></b></p>	P021



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<p>Anisa Ribani, Valerio Joe Utzeri, Claudia Geraci, Radostina Doneva, Stefania Dall'Olio, Leonardo Nanni Costa, Graziano Usai, Maurizio Gallo, Luca Fontanesi</p> <p><b><i>Signs of de-domestication in local pig breeds: evidences from variability in genes affecting phenotypic and morphological traits</i></b></p>	P022
<p>Giuseppina Schiavo, Valerio Joe Utzeri, Anisa Ribani, Claudia Geraci, Francesca Bertolini, Laura Santoro, Maurizio Gallo, Luca Fontanesi</p> <p><b><i>Identification of genomic regions affecting the hairless and tail shape phenotypes in Casertana pigs</i></b></p>	P023
<p>Emiliano Lasagna, Simone Ceccobelli, Fiorella Sbarra, Francesco Filippini, Maria Federica Trombetta, Marina Pasquini, Francesco Panella, Francesca Maria Sarti</p> <p><b><i>Effect of muscle hypertrophy on the carcass traits in Marchigiana beef cattle breed</i></b></p>	P024
<p>Francesco Iannaccone, Anna Balestrieri, Aristide Maggiolino, Salvatore Claps, Domenico Rufrano, Annunziata Fontana, Giuseppina Pedota, Alessandra Tateo, Gianluca Neglia</p> <p><b><i>Milk quality of six goat breeds maintained in the same environmental conditions</i></b></p>	P025
<p>Donatella Balduzzi, Sabina Arabi, Graziella Bongioni, Valeria Bornaghi, Rossana Capoferri, Luciano Foglio, Andrea Galli, Anna Pozzi, Cristina Previtali, Lorenzo Proietti, Roberta Vanni, Marina Montedoro</p> <p><b><i>The Italian Official Semen Control (OSC)</i></b></p>	P026
<p>Aristide Maggiolino, Salvatore Claps, Gianluigi Zullo, Francesco Iannaccone, Angela Salzano, Giuseppina Pedota, Roberta Cimmino, Pasquale De Palo</p> <p><b><i>Wood's model application in six different goat breeds</i></b></p>	P027
<p>Stefano Capomaccio, Marco Milanese, Cristina Nocelli, Andrea Giontella, Andrea Verini-Supplizi, Michele Branca, Maurizio Silvestrelli, Katia Cappelli</p> <p><b><i>Alternative splicing site disruption as strong candidate for white dominant phenotype in an Italian Trotter</i></b></p>	P028
<p>Elisa Pieragostini, Pasqua Loizzo, Antonio Capogna, Stefano Deramo, Chiara Mattia, Ferruccio Petazzi</p> <p><b><i>Start-up of a conservation plan of the Altamura sheep breed</i></b></p>	P029
<p>Francesca Bertolini, Giuliano Galimberti, Salvatore Mastrangelo, Rosalia Di Gerlando, Maria Giuseppina Strillacci, Alessandro Bagnato, Baldassare Portolano, Luca Fontanesi</p> <p><b><i>Application of SNP reduction approaches and random forest for the identification of population informative markers in cosmopolitan and local cattle breeds</i></b></p>	P030
<p>Valentina Longobardi, Gianluigi Zullo, Carolina De Canditiis, Anna Balestrieri, Roberta Cimmino, Giuseppe Albero, Angela Salzano, Bianca Gasparrini</p> <p><b><i>Cholesterol supplementation reduces cryocapacitation damages in bovine sperm</i></b></p>	P031
<p>Andrea Giontella, Camillo Pieramati, Maurizio Silvestrelli, Francesca Maria Sarti</p> <p><b><i>Population structure and genetic variability in Maremmano horse via pedigree analysis</i></b></p>	P032



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<p>Andrea Criscione, Serena Tumino, Salvatore Bordonaro, Bernardo Valenti, Marcella Avondo, Donata Marletta</p> <p><b><i>Polymorphisms at PITX2 gene and effects on milk quality of Argentata dell'Etna goat breed</i></b></p>	P033
<p>Marcello Del Corvo, Silvia Bongiorno, Bruno Stefanon, Licia Colli, Alessandra Stella, Alessio Valentini, Paolo Ajmone Marsan</p> <p><b><i>Genome-wide methylation profiles changes associated with stress exposure in cattle</i></b></p>	P034
<p>Maria Giuseppina Strillacci, Erica Gorla, Maria Cristina Cozzi, Mario Vevey, Francesca Bertolini, Luca Fontanesi, Alessandro Bagnato</p> <p><b><i>A GWAS in the autochthonous Italian Valdostana Red Pied cattle population based on a high resolution Copy Number Variant (CNV) scan</i></b></p>	P035
<p>Andrea Talenti, Matteo Cortellari, Marco Milanese, Stefano Frattini, Licia Colli, Giulio Pagnacco, Paolo Ajmone-Marsan, Paola Crepaldi</p> <p><b><i>Identification of genomic regions of recent selection for productive and reproductive traits in Italian Holstein bulls</i></b></p>	P036
<p>Elena Ciani, Samir Bachir Souheil Gaouar, Ismail Boujenane, Sonia Romdhani, Vincenzo Landi, Juan Vicente Delgado Bermejo</p> <p><b><i>The CARAVAN project: toward implementation of a modern dromedary selection system</i></b></p>	P037
<p>Andrea Talenti, Dayna L. Dreger, Federica Danelli, Stefano Frattini, Beatrice Coizet, Stefano P. Marelli, Giulio Pagnacco, Gustavo Gandini, Michele Polli, Romolo Caniglia, Marco Galaverni, Elaine A. Ostrander, Paola Crepaldi</p> <p><b><i>Whole genome analysis of the Lupo Italiano</i></b></p>	P038
<p>Dominga Soglia, Stefano Sartore, Sandra Maione, Roberto Rasero, Paola Sacchi</p> <p><b><i>Polymorphisms in genomic region of PTX3 gene and their association with somatic cell score breeding value in Italian Holstein</i></b></p>	P039
<p>Thais Miranda Silva Freitas, Maria Clorinda Soares Fioravanti, Maria Ivete de Moura, Gustavo Lage Costa, Juliana Moraes Dias, Luanna Kim Pires Guimarães, Emília Oliveira Alves Costa, Juliano Soares Raquel, Mayra Gómez, Vincenzo Landi</p> <p><b><i>Preliminary characterization of a microsatellites panel in the Mayor Histocompatibility Complex in Curraleiro cattle breed</i></b></p>	P040
<p>Grazia Bramante, Giancarlo Carchedi, Elisa Pieragostini, Elena Ciani</p> <p><b><i>Follow-up on the genealogical and demographic characterization of the Murgese horse</i></b></p>	P041
<p>Martina Zappaterra, Vladimiro Cardenia, Diana Luise, Vincenzo Motta, Roberta Davoli, Paolo Bosi, Maria Teresa Rodriguez Estrada, Paolo Trevisi</p> <p><b><i>Colostrum fatty acid composition in sows belonging to three different Italian pig breeds</i></b></p>	P042
<p>Federica Turri, Emanuele Capra, Paola Cremonesi, Barbara Lazzari, Teresa Maria Gliozzi, Alessandra Stella, Flavia Pizzi</p> <p><b><i>Functional characterization and small RNA sequencing of cryopreserved semen in high and low fertility bulls</i></b></p>	P043
<p>Roberta Davoli, Marika Vitali, Rubina Sirri, Piero Di Battista, Martina Zappaterra, Domenico Lo Fiego, Giacinto Della Casa, Paolo Zambonelli</p> <p><b><i>Effect of a diet enriched in PUFA and polyphenols on the expression of genes involved in lipids metabolism in pigs</i></b></p>	P044



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Caterina Cambuli, Ilaria Barbieri, Monica Cerioli, Maria Pacciarini, Silvia Cenadelli, Roberto Puglisi, Laura Gemma Brenzoni, Claudia Nassuato, Andrea Galli, Graziella Bongioni <b><i>Selection model for resistance to scrapie in small populations: the case study of Brianzola sheep breed</i></b>	P045
Silvia D'Andrea, Faisal Almathen, Mohammed Al Abri, Elena Ciani <b><i>Genetic characterization of sheep breeds from the Arabian peninsula through genome-wide SNP markers</i></b>	P046
Sami Megdiche, Johannes Arjen Lenstra, Elena Ciani <b><i>Signatures of merinization through analysis of local genome ancestry</i></b>	P047
Salvatore Mastrangelo, S. B. Jemaa, R. Ourida, G. Marras, Vincenzo Landi, Fabio Pilla, R. Lucchini, M. Simčič, I. Medugorac, D. Rocha, F. Marroni, H. Bahbahani, Alessio Valentini, P. Ajmone Marsan, J. E. Decker, E. Ciani <b><i>Genome-wide characterization of local cattle breeds from central and western Mediterranean</i></b>	P048
Roberta Davoli, Martina Zappaterra, Roger Ros-Freixedes, Joan Estany <b><i>GWA study for backfat fatty acid composition in pigs detects SNPs involved in the phenotypic variations of porcine subcutaneous fat quality</i></b>	P049
Martina Zappaterra, Paolo Zambonelli, Roberta Davoli <b><i>Lipases and their co-expressions in porcine muscle tissue samples divergent for intramuscular fat deposition</i></b>	P050

## ANIMAL HUSBANDRY AND ENVIROMENTAL IMPACT

Giorgio Marchesini, Elisabetta Garbin, Francesco Benozzo <b><i>Improving anaerobic digestion of lignocellulosic biomass through ultrasound treatment</i></b>	P051
Francesco Giannico, Simona Tarricone, Maria Antonietta Colonna, Domenico Gerardi, Anna Maria Russo, Giuseppe Marsico <b><i>Effect of rearing system on meat quality of Lucanian black pigs</i></b>	P052
Sabrina Di Giovanni, Paola De Santis, David Meo Zilio, Carmela Tripaldi, Bianca Maria Varcasia <b><i>Use of untreated whey for animal feeding</i></b>	P053
Maria Federica Trombetta, Sara Priori, Franco Fabietti, Marina Pasquini <b><i>Performance in vivo e post mortem of Marchigiana and Romagnola breed</i></b>	P054
Fabio Luzi, Veronica Redaelli, Giulia Corsini, Giuliano Grignaschi, Gerardo Marsella, Monica Forni <b><i>Use of Infrared Termography (IRT) in laboratory animals environment: preliminary note</i></b>	P055
Sara Carè, Giacomo Pirlo, Giuliano Marchesini, Simone Mellano, Kees De Roest, Laura Valli, Luciano Migliorati <b><i>BEEF CARBON: demonstration actions to mitigate the carbon footprint of beef production in France, Ireland, Italy and Spain</i></b>	P056
Giampiero Grossi, Andrea Vitali, Nicola Lacetera, Alessandro Nardone, Umberto Bernabucci <b><i>Comparison between cow milk and soymilk combining nutritional values and greenhouse gas data</i></b>	P057



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Paweł Migdał, Adam Roman, Ewa Popiela-Pleban, Yekaterina Zonova <b><i>Accumulation of manganese, copper and silver in honey bee organism, depending on the concentration and the type of the pesticide</i></b>	P058
Francesco Serrapica, Felicia Masucci, Antonio Di Francia, Maria Serrapica, Giuseppe De Rosa, Corrado Pacelli <b><i>The use of Azospirillum as a tool for promoting sustainable production of silage maize: a preliminary evidence under field condition</i></b>	P059
Ferdinando Calegari, Dario Rossi, Luigi Calamari <b><i>Ventilation and evaporative cooling of the resting area in free stalls dairy barn</i></b>	P060
Elena Ciani, Ferruccio Petazzi, Paolo Drenzo, Nicola Dibenedetto, Luigi Tortorelli, Cristoforo Carrino, Maria Cristina Rizzo, Giorgio Donnini, Fabio Modesti, Filippo Clemente, Elisa Pieragostini <b><i>Towards a sustainable wool chain in Apulia: dream or possible reality?</i></b>	P061
Alberto S. Atzori, Enrico Vagnoni, Giovanni Molle, Antonello Franca, Mauro Decandia, Claudio Porqueddu, Giuseppe Pulina, Pierpaolo Duce <b><i>Facing carbon emission mitigation of dairy sheep supply chain: estimation of a baseline trend</i></b>	P062
Ruggiero Sardaro, Daniela Panio, Ferruccio Petazzi, Elisa Pieragostini <b><i>Measuring the profitability of the Apulian native Altamura ovine breed for better conservation programmes</i></b>	P063
Dettori Annalisa, Felici Andrea, Scoccia Eleonora, Maresca Carmen <b><i>Start vs cessation of ruminant farming activity from 2010 to 2015: the paradigma of Umbria</i></b>	P064
Giuliano Palocci, Carmela Tripaldi, Sabrina Di Giovanni, Nicla Marri, Carlo Boselli, Gilberto Giangolini, Simonetta Amatiste <b><i>Microbiological characteristics of mozzarella type cheese from raw ewe milk</i></b>	P065
Alberto Stanislao Atzori, Giuseppe Pulina <b><i>The Net Waterfootprint: a proposal to calculate the water consumption of animal products</i></b>	P066

## AQUACULTURE, POULTRY AND RABBIT PRODUCTION

Giulia Tasoniero, Hanne Christine Bertram, Jette Feveile Young, Antonella Dalle Zotte, Eero Puolanne <b><i>Wooden breast myopathy in broiler chickens: does myowater have a role on hardness?</i></b>	P067
Monica Sforza, Iliara Porcellato, Raffaella Branciarri, David Ranucci, Simona Mattioli, Cesare Castellini <b><i>Morphological evaluations of pectoralis major muscle in two chicken strains</i></b>	P068
Chiara Ascione, Laura Gasco, Simona Rimoldi, Genciana Terova <b><i>Effects of dietary insect meal from Hermetia illucens on the expression of genes related to methionine metabolism in rainbow trout (Oncorhynchus mykiss)</i></b>	P069



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Giulia Baldi, Francesca Soglia, Luca Laghi, Claudio Cavani, Massimiliano Petracci <b><i>A comparison of water distribution and protein oxidation between poultry and rabbit meat</i></b>	P070
Chiara Ceccotti, Laura Gasco, Chiara Ascione, Genciana Terova <b><i>Hepatic metabolites S-adenosyl methionine (SAM) and S-adenosyl homocysteine (SAH) as signals of methionine nutritional deficiency in rainbow trout (Oncorhynchus mykiss) fed on diets with partial replacement of fishmeal with insect (Hermetia illucens) meal.</i></b>	P071
Rosa Loponte, Antonio Gaudio, Valentina Panettieri, Carmelo Di Meo, Antonino Nizza <b><i>Growth performance and carcass traits of rabbits raised in cages or in a free range system from 30 to 100 days of age</i></b>	P072
Iaffaldano Nicolaia, Di Iorio Michele, Miranda Miranda, Petrecca Mario, Cerolini Silvia, Gibertoni Pier Paolo, Esposito Stefano <b><i>Effect of equilibration time for semen cryopreservation of endangered Mediterranean brown trout (Salmo cettii) inhabiting the Biferno river (Molise region, South Italy)</i></b>	P073
Nicolaia Iaffaldano, Michele Di Iorio, Marsia Miranda, Paola Principe, Michele Schiavitto, Angelo Manchisi, Silvia Cerolini <b><i>Comparison of two basic extenders on the in vitro post-thaw quality of rabbit semen</i></b>	P074
Yara Husein, Giulia Secci, Giuliana Parisi <b><i>Advantages and disadvantages of mechanical separation process applied to fishery industry</i></b>	P075
Giovanni Piccolo, Andrea Valentino, Stefania Marono, Valentina Panettieri, Irina Cavaliere, Rosa Loponte, Aniello Anastasio <b><i>On-growing turbot (Scophthalmus maximus, Linnaeus 1758) in a land-based aquafarm in Southern Italy: preliminary results</i></b>	P076
Tiziana Bongiorno, Monica Borgogno, Saida Favotto, Giuseppe Baldisserotto, Francesca Tulli, Edi Piasentier <b><i>Sensory comparison of mussels (Mytilus galloprovincialis) farmed in the Adriatic and Sardinian Sea</i></b>	P077
Rita Smaldone, Giuseppe De Rosa, Raffaele Sacchi, Antonello Paduano, Roberto Di Matteo, Carmela Maria Assunta Barone <b><i>The effect of season on the nutritional quality of wild white sea bream (Diplodus sargus)</i></b>	P078
Giuliana Parisi, Pier Paolo Danieli, Giovanni Piccolo, Laura Gasco, Vittorio M. Moretti, Vincenzo Russo <b><i>The real annual per capita consumption of fish in Italy</i></b>	P079



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## ANIMAL WELFARE, HEALTH AND BEHAVIOUR

Melania Martino, Simona Mattioli, Valentina Cambiotti, Livia Moscati, Cesare Castellini, Alessandro Dal Bosco <b><i>Use of a motivational cage to evaluate the social relationship in colony-reared rabbit does</i></b>	P080
Marisanna Speroni, Claudia Federici, Andrea Summer <b><i>Heart rate and heart rate variability as indicators of animal welfare and coping style of dairy cattle</i></b>	P081
Tarantola Martina, Biasato Iaria, Biasibetti Elena, Biagini Davide, Guarda Franco, Miniscalco Barbara, Mioletti Silvia, Salaroglio Andrea, Capucchio MariaTeresa <b><i>On-farm animal welfare assessment in beef cattle: an integrated approach</i></b>	P082
Caterina Cambuli, Roberto Puglisi, Francesca Fusi, Luigi Bertocchi, Andrea Galli, Graziella Bongioni, Marina Montedoro <b><i>Identification of differentially expressed microRNAs in the peripartum of dairy cows: potential indicators of welfare and metabolic efficiency</i></b>	P083
Veronica Redaelli, Fabio Luzi, Giulia Ferrari, Marco Gargano, Nicola Ludwig, Augusto Vitale, Caterina Spiezio <b><i>Applicability of infrared thermography of chimpanzees in semi-natural conditions: a preliminary study</i></b>	P085
Maria Carmela Scatà, Giovanna De Matteis, Elisa Mostarda, Cinzia Marchitelli, Gennaro Catillo <b><i>Evaluation of adhesion molecules in bovine neutrophils and monocytes during early lactation</i></b>	P086
Valentina Becciolini, Riccardo Bozzi, Maria Paola Ponzetta <b><i>Milk intake in relation to growth in hand-reared fallow deer (<i>Dama dama L., 1758</i>) fawns</i></b>	P087
Veronica Redaelli, Fabio Luzi, Davide Rossetti, Alice Tappella, Valerio Bronzo <b><i>Use of thermography (IRT) as a pre-diagnostic technique in bovine mastitis: a pilot study</i></b>	P088
Mattia Freschi, Giuliano Grignaschi, Gerardo Marsella, Veronica Redaelli, Fabio Luzi <b><i>Thermographic monitoring of nests of nude mice in their early life: technical note</i></b>	P089
Fabio Mastrogiovanni, Umberto Bernabucci, Loredana Basiricò, Daniele Dipasquale, Nicola Lacetera <b><i>Evaluation of antioxidant effects of pomegranate peel extract on bovine mammary epithelial cells</i></b>	P090
Paweł Migdał, Adam Roman, Deta Łuczycka, Ewa Popiela-Pleban <b><i>Limiting the impact of electromagnetic fields on the family honeybee - preliminary results</i></b>	P091
Michele Premi, Giorgia Lovotti, Annarita Ferrari, Luigi Calamari <b><i>Development of a reference tool based on physiological measurements to validate the models of animal welfare assessment in dairy farms</i></b>	P092
Vincenzo Lopreiato, Carlotta Ceniti, Elisabetta Fratto, Marcello Marotta, Domenico Britti, Valeria Maria Morittu <b><i>Influence of serum <math>\gamma</math>-globulin concentration at 24 h after birth on lamb growth in natural rearing system</i></b>	P093





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<p>Marialuisa Pisani, Giuseppe De Rosa, Ada Braghieri, Maria Serrapica, Corrado Pacelli, Fernando Grasso, Fabio Napolitano</p> <p><b><i>Cross-sucking and mortality in buffalo calves</i></b></p>	P094
<p>William C. Davis, Francesco Grandoni, Mahmoud M. Elnaggar, Gaber S. Abdellrazeq, Federica Signorelli, Lindsay M. Fry, Victoria Hulubei, Samy A. Khaliel, Helmy A. Torky, Cinzia Marchitelli, Luca Buttazzoni</p> <p><b><i>Identification and use of cross reactive monoclonal antibodies to characterize leukocyte subsets in water buffalo (<i>Bubalus bubalis</i>)</i></b></p>	P095
<p>Alessandra Tateo, Aristide Maggiolino, Pasquale De Palo, Edmondo Ceci, Pasquale Centoducati</p> <p><b><i>Evaluation of blood plasma catecholamine concentration in Martina Franca donkeys: effect of age and sex</i></b></p>	P096
<p>Paola Cremonesi, Rossana Capoferri, Paola Roccabianca, Federica Riva, Giuliano Pisoni, Marcello del Corvo, Alessandra Stella, Paolo Moroni, Bianca Castiglioni</p> <p><b><i>Gene expression profiling in response to experimental <i>Staphylococcus aureus</i> infection in mammary gland tissues of two divergent lines of goat for high and low milk somatic cell scores</i></b></p>	P097

## ANIMAL FOOD QUALITY AND SAFETY

<p>Carla Lazzaroni, Davide Biagini</p> <p><b><i>Carcass measurements for ethnic allocation in cattle</i></b></p>	P098
<p>Silvia Vincenzetti, Gloria Astolfi, Elena Cellini, Ambra Ariani, Stefania Pucciarelli, Natalina Cammertoni, Paolo Polidori</p> <p><b><i>Determination of some water-soluble vitamins in donkey milk</i></b></p>	P099
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