



ANNUAL INDEXES

Vol. 5-2006

CONTENTS

ISSUE 1

Editorial

- ROSANNA SCIPIONI** 5
The role of research in the future of the agro-food sector

Papers

- LUCIA BAILONI, ALBERTO SIMONETTO, FRANCO TAGLIAPIETRA, ROBERTO MANTOVANI** 9
Changes of particle size distribution and chemical composition of a hay-based ration offered once or twice daily to dairy cows

- MARIA VITTORIA TOSI, VALENTINA FERRANTE, SILVANA MATTIELLO, ELISABETTA CANALI, MARINA VERGA** 19
Comparison of video and direct observation methods for measuring oral behaviour in veal calves

- CESARE CASTELLINI, ALESSANDRO DAL BOSCO, CECILIA MUGNAI, MARTINA PEDRAZZOLI** 29
Comparison of two chicken genotypes organically reared: oxidative stability and other qualitative traits of the meat

- DUARTE DIAZ, MAURO MORLACCHINI, FRANCESCO MASOERO, MAURIZIO MOSCHINI, GIORGIO FUSCONI, GIANFRANCO PIVA** 43
Pea seeds (*Pisum sativum*), faba beans (*Vicia faba var. minor*) and lupin seeds (*Lupinus albus var. multitalia*) as protein sources in broiler diets: effect of extrusion on growth performance

- MAURO ANTONGIOVANNI, ARIANNA BUCCIONI, FRANCESCO PETACCHI, CLARA SARGENTINI, SARA MINIERI** 55
Mixtures of mono-, di- and tri-glycerides as energy supplements to broilers' diets

- PAOLA LUPI, VALENTINA VIGIANI, MASSIMO MECATTI** 63
Contribution to the definition of the metabolic profile of farmed rainbow trout (*Oncorhynchus mykiss*)

- BIANCA MOIOLI, FRANCESCO NAPOLITANO, LUIGI ORRÙ, GENNARO CATILLO** 73
Analysis of the genetic diversity between Gentile di Puglia, Sopravissana and Sarda sheep breeds using microsatellite markers

- FRANCESCA D'ANGELO, ELENA CIANI, AGOSTINO SEVI, MARZIA ALBENZIO, ROBERTA CIAMPOLINI, DARIO CIANCI** 79
The genetic variability of the Podolica cattle breed from the Gargano area. Preliminary results

Short Communication

- ANDREA ROLANDO, LILIANA DI STASIO** 87
MC1R gene analysis applied to breed traceability of beef

- EDITORIAL POLICIES AND PROCEDURES** 96



CONTENTS

ISSUE 2

Papers

- ENRICO STURARO, LUCIA MENEGAZZO, PAOLO PICCININI, GIOVANNI BITTANTE,
PAOLO CARNIER, LUIGI GALLO** 107
Prevalence and genetic parameters for hip dysplasia in Italian population of purebred dogs
- FLAVIO FORABOSCO, PAUL BOETTCHER, RICCARDO BOZZI, FRANCESCO FILIPPINI,
PITER BIJMA** 117
Genetic selection strategies to improve longevity in Chianina beef cattle
- RICCARDO BOZZI, ORESTE FRANCI, FLAVIO FORABOSCO, CAROLINA PUGLIESE,
ALESSANDRO CROVETTI, FRANCESCO FILIPPINI** 129
Genetic variability in three Italian beef cattle breeds derived from pedigree information
- EMILIO PIETROLÀ, FABIO PILLA, GIUSEPPE MAIORANO, DONATO MATASSINO** 139
Morphological traits, reproductive and productive performances
of Casertana pigs reared outdoors
- MARIA FEDERICA TROMBETTA, SIMONA MATTII, MARINA PASQUINI, ADALBERTO FALASCHINI** ... 147
Evaluation of the digestibility of *Lathyrus sativus* in growing pigs
- RODOLFO BALLESTRAZZI, SIMONA RAINIS, MARCO MAXIA** 155
The replacement of fish oil with refined coconut oil in the diet of large rainbow trout
(*Oncorhynchus mykiss*)
- EDO D'AGARO, DOMENICO LANARI** 165
Environmental impact of sea bass cage farming in the north Adriatic Sea
- GISELLA PACI, MARCO BAGLIACCA, ANTONIO LAVAZZA** 175
Stress evaluation in hares (*Lepus europaeus* Pallas) captured for traslocation
- ANTONIO ZULLO, CARMELA M.A. BARONE, ANTONIO GIROLAMI, PASQUALE COLATRUGLIO,
DARIO CONSOLANTE, DONATO MATASSINO** 183
Effect of electrical stimulation and other genetic and environmental factors
on colour of lamb meat
- RAMI TAHSIN KRIDLİ, ABDULLAH YOUSEF ABDULLAH, MOHAMED MOMANI SHAKER,
AHMAD QASEM AL-MOMANI** 193
Age at puberty and some biological parameters of Awassi and its first crosses
with Charollais and Romanov rams
- BOOK REVIEW** 203
- ROSANNA SCIPIONI** 204
Archimede Mordenti: a father of science, a father to his pupils



CONTENTS

ISSUE 3

Papers

- FRANCESCO MASOERO, FILIPPO ROSSI, ANNA MARIA PULIMENO** 215
Chemical composition and *in vitro* digestibility of stalks, leaves and cobs
of four corn hybrids at different phenological stages
- GIUSEPPE MONIELLO, FLUVIA BOVERA, NICOLA DE RIU, GIOVANNI PICCOLO, WALTER PINNA,
CARMELO DI MEO** 229
Gender effect on the metabolic profile of ostriches (*Struthio camelus domesticus*)
- FRANCESCO MASOERO, MAURIZIO MOSCHINI, GIORGIO FUSCONI, GIANFRANCO PIVA** 237
Raw, extruded and expanded pea (*Pisum sativum*) in dairy cows diets
- ROBERTA DAVOLI, LUCA FONTANESI, SILVIA BRAGLIA, IRMA NISI, EMILIO SCOTTI,
LUCA BUTTAZZONI, VINCENZO RUSSO** 249
Investigation of SNPs in the *ATP1A2*, *CA3* and *DCR1* genes mapped to porcine chromosome 4:
analysis in groups of pigs divergent for meat production and quality traits
- CAROLINA PUGLIESE, ORESTE FRANCI, ANNA ACCIAIOLI, RICCARDO BOZZI, GUSTAVO CAMPODONI,
FRANCESCO SIRTORI, GUSTAVO GANDINI** 265
Physical, chemical and technological traits of dry-cured ham of Cinta Senese pigs reared
outdoors and indoors

Short Communication

- ÖMER ÇETIN, TOLGA KAHRAMAN, SERKAN KEMAL BÜYÜKÜNAL** 277
Microbiological evaluation of food contact surfaces at red meat processing plants
in Istanbul, Turkey

Proceedings of the SIPA 44th Congress

- Wild birds as biological indicators of environmental pollution: biotyping and antimicrobial
resistance patterns of *Escherichia coli* isolated from Audouin's gulls (*Larus audouinii*) living
in the Bay of Gallipoli (Italy) 287
- Survey of *Campylobacter jejuni* and *Campylobacter coli* in different taxa and ecological guilds
of migratory birds 291
- Typing of *Campylobacter jejuni* and *C. coli* isolated from laying hens during the production cycle 295
- Serotypes of *E. coli* isolated from avian species in Lombardia and Emilia Romagna (North Italy) 298
- Protection of chickens vaccinated with different schemes including the 4/91 IBV vaccine strain
against field IBV strain Italy 02: preliminary results 302
- Survey on circulation of infectious bronchitis virus strains in Northern Italy 309

Case Reports

- Ceruminous otitis in native chicken breeders belonging to *Robusta Lionata* breed 312
- Caecal coccidiosis in commercial male turkeys 315
- Outbreak of *Eimeria kofoidi* and *E. legionensis* coccidiosis in red-legged partridges (*Alectoris rufa*) 318



CONTENTS

ISSUE 4

Papers

- SERENA CALABRÒ, FRANCO CARONE, MONICA I. CUTRIGNELLI, SIMONA D'URSO, GIOVANNI PICCOLO, RAFFAELLA TUDISCO, GIOVANNA ANGELINO, FEDERICO INFASCELLI** 327
The effect of haymaking on the neutral detergent soluble fraction of two intercropped forages cut at different growth stages
- HAKAN BIRICKI, İBRAHİM İSMET TURKMEN, GULAY DENİZ, BULENT HALUK GULMEZ, HİDİR GENCOĞLU, BİRGÜL BOZAN** 341
Effects of synchronizing starch and protein degradation in rumen on fermentation, nutrient utilization and total tract digestibility in sheep
- MINA MARTINI, FRANCESCA CECCHI, COSIMA SCOLOZZI** 349
Relationship between fat globule size and chemical and fatty acid composition of cow's milk in mid lactation
- ANTONIA BIANCA SAMORÉ, ABRAHAM FULP GROEN** 359
Proposal of an udder health genetic index for the Italian Holstein Friesian based on first lactation data
- FRANCESCA MARIA SARTI, EMILIANO LASAGNA, FRANCESCO PANELLA, GIANVINCENZO LEBBRONI, CARLO RENIERI** 371
Wool quality in *Gentile di Puglia* sheep breed as measure of genetic integrity
- ROBERTO LEOTTA, BARBARA VOLTINI, MARCELLO MELE, MARIA CLAUDIA CURADI, MARIO ORLANDI, PIERLORENZO SECCHIARI** 377
Latent variable models on performance tests in guide dogs. 1. Factor analysis

Short Communications

- FRANCESCA CECCHI, ROBERTA CIAMPOLINI, ELENA CIANI, BARBARA MATTEOLI, ELISA MAZZANTI, MARIELLA TANCREDI, SILVANO PRESCIUTTINI** 387
Demographic genetics of the endangered Amiata donkey breed
- ATILGAN ATILGAN, HAYATI KOKNAROĞLU** 393
Cultural energy analysis on broilers reared in different capacity poultry houses