



ANNUAL INDEXES

Vol. 3-2004

CONTENTS

ISSUE 1

Editorial

- ROSANNA SCIPIONI**5
The first two years of IJAS

Papers

- IVO ZOCCARATO, KAIJUN GUO, LAURA GASCO, GIANLUCA PICCO**7
Effect of egg weight on ostrich (*Struthio camelus*) chick weight and growth
- VINCENZO RUSSO, LUCA FONTANESI, ROBERTA DAVOLI, LUIGI CHIOFALO,
LUIGI LIOTTA, ALESSANDRO ZUMBO**19
Analysis of single nucleotide polymorphisms in major and candidate genes
for production traits in Nero Siciliano pig breed
- ALBERTO SABBIONI, VALENTINO BERETTI, ALESSIO ZANON, PAOLA SUPERCHI,
CLAUDIA SUSSI, ALBERTO BONOMI** 31
Effect of the proportion of Duroc genes in crosses with Large White
and Landrace pigs on the characteristics of seasoned Parma ham
- BALDASSARE PORTOLANO, RAFFAELLA FINOCCHIARO, MASSIMO TODARO,
JAN-THIJS VAN KAAM, PIETRO GIACCONE** 41
Demographic characterization and genetic variability of the Girgentana goat breed
by the analysis of genealogical data
- ANDREA SERRAINO, LEONARDO ALBERGHINI, MARIA CRISTINA FONTANA,
COSIMA ANNEMÜLLER, CHRISTOPH LÄMMLER, ROBERTO ROSMINI** 47
Occurrence of enterotoxin genes and macrorestriction analysis of *Staphylococcus aureus* isolated
from bovine mastitis and bulk-tank milk samples in Italy. An epidemiological study
- MINA MARTINI, COSIMA SCOLOZZI, FRANCESCA CECCHI, FRANCESCA ABRAMO** 55
Morphometric analysis of fat globules in ewe's milk and correlation with qualitative parameters
- FULVIA BOVERA, MONICA ISABELLA CUTRIGNELLI, SERENA CALABRÒ, GIOVANNI PICCOLO,
RAFFAELLA TUDISCO, FABIO ZICARELLI, VINCENZO PICCOLO, FEDERICO INFASCELLI** 61
Effect of non-structural carbohydrate dietary content on the productive performance
of Sarda primiparous ewes
- FRANCESCO TOTEDA, ANNA MARIA FACCIOLONGO, ARCANGELO VICENTI,
LIBORIO MELODIA, FRANCESCO BOZZO** 71
Effect of type of suckling and polyunsaturated fatty acid use on lamb production.



CONTENTS

1. Productive performances and quanti-qualitative characteristics of the carcass

ARCANGELO VICENTI, MARIA ANTONIETTA COLONNA, MARCO RAGNI, FRANCESCO TOTEDA	81
Effect of type of suckling and polyunsaturated fatty acid use on lamb production.	

2. Chemical and fatty acid composition of raw and cooked meat

ISSUE 2

Review article

AIMÉ AUMAITRE	107
Safety assessment and feeding value for pigs, poultry and ruminant animals of pest protected (Bt) plants and herbicide tolerant (glyphosate, glufosinate) plants: interpretation of experimental results observed worldwide on GM plants	

Papers

GIOVANNI MARIO TURCHINI, IVAN GIANI, FABIO CAPRINO, VITTORIO MARIA MORETTI, FRANCO VALFRÈ	123
Discrimination of origin of farmed trout by means of biometrical parameters, fillet composition and flavor volatile compounds	
DOMENICO BERGERO, NICOLETTA MIRAGLIA, ACHILLE SCHIAVONE, MIMMO POLIDORI, LIVIANA PROLA	141
Effect of dietary polyunsaturated fatty acids and Vitamin E on serum oxidative status in horses performing very light exercise	
LEONARDO BIANCHI, CARMEN CASOLI, MARIANO PAUSELLI, ELENA BUDELLI, ANNA CAROLI, ARIANNA BOLLA, EMILIA DURANTI	147
Effect of somatic cell count and lactation stage on sheep milk quality	
ALI MOHARRERY	157
Investigation of different levels of RDP in the rations of lactating cows and their effects on MUN, BUN and urinary N excretion	
MARKUS SPOLDERS, ULLRICH MEYER, GERHARD FLACHOWSKY, MANFRED COENEN	167
Differences between primiparous and multiparous cows in voluntary milking frequency in an automatic milking system	
BRUNO STEFANON, ROMINA FLORIS, SILVIA BRAGLIA, ROBERTA DAVOLI, LUCA FONTANESI, STEFANIA DALL'OLIO, GIORGIO GRAZIOSI, PIERO SUSMEL, VINCENZO RUSSO	177
A new approach in association study of single nucleotide polymorphism of genes for carcass and meat quality traits in commercial pigs	
FRANCESCA CECCHI, CLAUDIA RUSSO, GIOVANNA PREZIUSO, DARIO CIANCI	191



CONTENTS

Genetic variability of meat quality traits in Chianina beef cattle

ISSUE 3

Papers

- ROMINA FLORIS, BRUNO STEFANON, ALBERTO PALLAVICINI,
PIERO SUSMEL, GIORGIO GRAZIOSI** 211
MwoI and *SmaI* RFLPs polymorphisms of porcine obese gene and their association
with carcass and meat characteristics of heavy pigs
- ALBERTO SABBIONI, MARIO BARATTA, MATTEO LAVARINI, VALENTINO BERETTI,
CLAUDIA SUSSI, ANDREA SUMMER, PAOLA SUPERCHI, ALESSIO ZANON** 219
Relationship between serum β -lactoglobulin content during gestation
and reproductive efficiency in primiparous sows
- LUCA SARDI, GIOVANNA MARTELLI, FERNANDO ESCRIBANO, PAOLA PARAZZA,
PAOLO PARISINI** 225
The effects of Sepiolite-SPLF on piglet and heavy pig production
- ALESSIO BONALDO, LAURA RIZZI, ANNA BADIANI, SILVIA TESTI, PIER PAOLO GATTA** 235
Growth response and body composition of sharpnose sea bream (*Diplodus puntazzo*)
fed a high energy diet with different protein levels
- LUCIA BAILONI, ALESSIA BORTOLOZZO, ROBERTO MANTOVANI, ALBERTO SIMONETTO,
STEFANO SCHIAVON, GIOVANNI BITTANTE** 243
Feeding dairy cows with full fat extruded or toasted soybean seeds as replacement
of soybean meal and effects on milk yield, fatty acid profile and CLA content
- EDI PIASENTIER, MASSIMO MARANGON, MICAELA MORGANTE,
ROBERTO VALUSSO, LUISA ANTONELLA VOLPELLI** 259
Effect of ageing time on consumer-perceived quality of Italian Simmental beef
- GIOVANNA PREZIUSO, CLAUDIA RUSSO** 267
Meat quality traits of *longissimus thoracis*, *semitendinosus* and *triceps brachii* muscles
from Chianina beef cattle slaughtered at two different ages
- FERNANDO GRASSO, GIUSEPPINA MARIA TERZANO, GIUSEPPE DE ROSA,
CARMELA TRIPALDI, FABIO NAPOLITANO** 275
Influence of housing conditions and calving distance on blood metabolites in water buffalo cows

Short communications

- MARIO ANNUNZIATA, MARIO IORIO** 283
The levels of glutathione and hemoglobin in sheep erythrocytes as a function of age
- ELENA CATELLI, MATTIA CECCHINATO, MAURO DELOGU, PATRIZIA DE MATTEO,**



CONTENTS

- GIOVANNI ORTALI, CARLO FRANCIOSI, MARIA ALESSANDRA DE MARCO, CLIVE JOHN NAYLOR**287
Avian Pneumovirus infection in turkey and broiler farms in Italy:
a virological, molecular and serological field survey
- FRANCESCA MARTUZZI, ANDREA SUMMER, PAOLO FORMAGGIONI, PRIMO MARIANI**293
Milk of Italian Saddle and Haflinger nursing mares: physico – chemical characteristics,
nitrogen composition and mineral elements at the end of lactation

ISSUE 4

Review article

- PAOLO BOSI, VINCENZO RUSSO**309
The production of the heavy pig for high quality processed products

Papers

- MARGARETH ØVERLAND, NILS PETTER KJOS, ANDERS SKREDE**323
Effect of bacterial protein meal grown on natural gas on growth performance
and carcass traits of pigs
- STEFANO SCHIAVON, FRANCO TAGLIAPIETRA, LUCIA BAILONI, ALESSIA BORTOLOZZO**337
Effects of sugar beet pulp on growth and health status of weaned piglets
- MINA MARTINI, COSIMA SCOLOZZI, DOMENICO GATTA, FABRIZIO TACCINI, PAOLO VERITÀ**353
Effects of olive oil calcium soaps and phase of lactation on the fatty acid composition
in the milk of Massese ewes
- PIER PAOLO DANIELI, PAOLO CARLINI, UMBERTO BERNABUCCI, BRUNO RONCHI**363
Quality evaluation of regional forage resources by means
of near infrared reflectance spectroscopy
- ROBERTO LEOTTA**377
Use of linear discriminant analysis to characterise three dairy cattle breeds
on the basis of several milk characteristics
- MARCO LODESANI, DONATELLA BALDUZZI, ANDREA GALLI**385
Functional characterisation of semen in honeybee queen (*A. m. ligustica* S.) spermatheca
and efficiency of the diluted semen technique in instrumental insemination
- PAOLO MELOTTI, ALESSANDRA RONCARATI, LUCIA ANGELLOTTI, ANDREA DEES,
ENRICO MAGI, CLAUDIO MAZZINI, CARLO BIANCHI, ROSANNA CASCIANO**393
Effects of rearing density on rainbow trout welfare,
determined by plasmatic and tissue parameters