



## CONTENTS

- 3 **VINCENZO RUSSO**  
*Presentation*

- 5 **ROSANNA SCIPIONI**  
*Editorial*

### Papers:

- 7 **RAFFAELLA ROSSI - CARLO CORINO**  
Influence of long-term nutrition with different dietary fats on fatty acid composition of heavy pigs backfat
- 17 **ALBERTO SABBIONI - PAOLA SUPERCHI - CLAUDIA SUSSI - ALBERTO BONOMI**  
Effect of Duroc gene proportions on growth performance and on carcass and meat quality characteristics in heavy pigs
- 25 **GIOVANNA MARTELLI - PAOLO PARISINI - ROSANNA SCIPIONI - ENRICO CESSI - LUCA SARDI**  
The effects of pressed sugar beet pulp silage (PBPS) and dairy whey on heavy pig production
- 35 **ANDREA PIVA - MAURO MORLACCHINI - GABRIELE CASADEI**  
**PIER PAOLO GATTA - GIACOMO BIAGI - ALDO PRANDINI**  
Sodium butyrate improves growth performance of weaned piglets during the first period after weaning
- 43 **LUCA RAPETTI - G. MATTEO CROVETTO - GIANLUCA GALASSI - ANNA SANDRUCCI**  
**GIUSEPPE SUCCI - ALBERTO TAMBURINI - GIOVANNA BATELLI**  
Effect of maize, rumen-protected fat and whey permeate on energy utilisation and milk fat composition in lactating goats
- 55 **MAURO ANTONGIOVANNI - PIERLORENZO SECCHIARI - MARCELLO MELE - ARIANNA BUCCIONI**  
**ANDREA SERRA - GUIDO FERRUZZI - STEFANO RAPACCINI - ALESSANDRO PISTOIA**  
Olive oil calcium soaps and rumen protected methionine in the diet of lactating ewes: effect on milk quality
- 65 **EDI PIASENTIER - ROBERTO VALUSSO - ROBERTA LEONARDUZZI**  
**PAOLA PITTIA - DRAGO KOMPA**  
Quality of Italian Istrian milk lamb meat. Influence of carcass weight and feeding system
- 79 **RAFFAELE CELI - ADRIANA DI TRANA - PIETRO CELI**  
The influence of lactation on the quantity and quality of cashmere production
- 87 **ASPA NEWS**
- 90 **EDITORIAL POLICIES AND PROCEDURES**



---

# CONTENTS

## Papers:

- 95 **ANTONINO NIZZA, GIAMPIERO STANCO, CARMELO DI MEO, MARIA LAURA MARONGIU, SYLVIE TARANTO, MONICA ISABELLA CUTRIGNELLI, LUCA JULIANO**  
Effect of pre-weaning solid feed and milk intake on caecal content characteristics and performance of rabbits around weaning
- 103 **LUCA SARDI, GIOVANNA MARTELLI, PAOLO PARISINI, ENRICO CESSI, ARCHIMEDE MORDENTI**  
The effects of clinoptilolite on piglet and heavy pig production
- 113 **GIULIO COZZI, FLAVIANA GOTTARDO, FRANCO MUTINELLI, BARBARA CONTIERO, GIANLUCA FREGOLENT, SEVERINO SEGATO, IGINO ANDRIGHETTO**  
Growth performance, behaviour, forestomach development and meat quality of veal calves provided with barley grain or ground wheat straw for welfare purpose.
- 127 **GIUSEPPE BERTONI, ROSANNA LOMBARDELLI, FIORENZO PICCIOLI-CAPPELLI, JURGEN BLUM**  
Basal levels and diurnal variations of some hormones and metabolites in blood of dairy cows treated daily with rbST in early and late lactation

## Short Communications:

- 143 **MAURO SPANGHERO**  
Precision in the measurement of dairy feed fractions based on particle size.
- 151 **MARIA ANTONIETTA BRESCIA, ANNA CAPUTI JAMBRENGHI, VINCENZO DI MARTINO, DANIELA SACCO, FRANCESCO GIANNICO, GINO VONGHIA, ANTONIO SACCO**  
High resolution nuclear magnetic resonance spectroscopy (NMR) studies on meat components: potentialities and prospects
- 159 **ELISA PIERAGOSTINI, ALDO DI LUCCIA, ROSARIO RULLO, CARMELA BOTTIGLIERI**  
Hemoglobin phenotypes in Murghese horse
- 165 **ASPA NEWS**
-



---

## CONTENTS

### Papers:

- 171 ANNA ACCIAIOLI, CAROLINA PUGLIESE, RICCARDO BOZZI,  
GUSTAVO CAMPODONI, ORESTE FRANCI, GUSTAVO GANDINI  
Productivity of Cinta Senese and Large White x Cinta Senese pigs reared  
outdoor on woodlands and indoor. 1. Growth and somatic development.
- 181 DOMENICO LANARI, EDO D'AGARO, RODOLFO BALLESTRAZZI  
Growth parameters in European sea bass (*Dicentrarchus labrax L.*):  
effects of live weight and water temperature
- 187 PAOLO BOSI, DAVIDE CRESTON, LUISA CASINI  
Production performance of dairy cows after the dietary addition of clinoptilolite
- 197 LUIGI GALLO, PAOLO CARNIER, MARTINO CASSANDRO, FRANCESCA CESARINI  
Health disorders and their association with production and functional  
traits in Holstein Friesian cows.
- 211 PAOLO SCROLLAVEZZA, FRANCESCO ANSALONI, PAOLO POLIDORI,  
MARCO ABLONDI, BRUNO POGLIACANI  
Ozonized autohemotherapy, a new method to treat dairy cow acute interdigital  
phlegmon. Comparison with ceftiofur and oxytetracycline.
- 217 ANGELO QUARANTA, AGOSTINO SEVI, ANGELO NARDOMARINO,  
GINA EVELINA COLELLA, DONATO CASAMASSIMA  
Effects of graded noise levels on behavior, physiology and production performance  
of intensively managed lambs.
- 229 MAURO ANTONGIOVANNI, ANNA ACCIAIOLI, ORESTE FRANCI, MARIA PAOLA PONZETTA,  
CAROLINA PUGLIESE, ARIANNA BUCCIONI, MARCO BADI  
Field bean (*Vicia faba var. minor*) as a protein feed for growing lambs  
with and without protected lysine and methionine supplementation
- 239 *Giancarlo Geri: the man, the scholar, the scientist*
- 240 ASPA NEWS
-



---

# CONTENTS

## Review article

- 243 **YVES CHILLIARD, ANNE FERLAY, JUAN LOOR, JACQUES ROUEL, BRUNO MARTIN**  
Trans and conjugated fatty acids in milk from cows and goats consuming pasture or receiving vegetable oils or seeds

## Papers:

- 255 **STEFANO BOVOLENTA, ELENA SACCA, WALTER VENTURA, EDI PIASENTIER**  
Effect of type and level of supplement on performance of dairy cows grazing on alpine pasture
- 265 **MARTINO CASSANDRO, RICCARDO DAL ZOTTO, LUIGI GALLO, PAOLO CARNIER, GIOVANNI BITTANTE**  
Effects of herd origin, AI stud and sire identification on genetic evaluation of Holstein Friesian bulls
- 275 **LUCA MALAGUTTI, MICHELE ZANNOTTI, FRANCA SCIARAFFIA**  
Use of clinoptilolite in piglet diets as a substitute for Colistine
- 281 **ORESTE FRANCI, CLARA SARGENTINI, ANNA ACCIAIOLI, MARTINA BIANCHI**  
Growth of Cinta Senese piglets as affected by location of the suckled teat
- 291 **CESARE CASTELLINI, ALESSANDRO DAL BOSCO, CECILIA MUGNAI, MARCELLA BERNARDINI**  
Performance and behaviour of chickens with different growing rate reared according to the organic system

## Short communication

- 301 **GEORGE PAPADOMICHELAKIS, KOSTAS KOUTSOTOLIS, GEORGIA ZABELI, GEORGE ZERVAS**  
The effect of lactating dairy ewes' diet supplementation with ALIMET (liquid methionine) on milk yield and milk composition
- 307 *Tullio Di Lella: 1944-2002. A brief biography*
- 309 **ASPA NEWS**
- 313 **ANNUAL INDEXES**
-