Research in rabbit science. University of Bari

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Faculty of Veterinary Medicine

Department of Veterinary Public Health and Animal Sciences

Section of Avian Pathology

Diseases of poultry

Diseases of rabbits

Section of Avian Pathology

Activities in Rabbit Sciences

- Courses on “Hygiene and Diseases of Rabbits” for students in Veterinary medicine
- Diagnostics and Assistance for Technicians and Rabbit Producers
- Clinical Activities in pet rabbits
- Research Activity in Rabbit diseases

Research in rabbit diseases

Enteric diseases of rabbits

E. coli infections

Epidemiology and Characterization of Entero Pathogenic *Escherichia coli* (EPEC)

Rotavirus infections
Astrovirus Infections

Epidemiology and genetic Characterization

Enteric Disorders in Rabbit

- Effect of the administration of prebiotics and forerunners of prostacyclines on the Entero Pathogenic *E. coli* enteritis in rabbits

Final purpose

Administration of feed without antibiotics in weaning and fattening rabbits

Proceedings - 8th World Rabbit Congress –September 7-10, 2004 – Puebla, Mexico

VIRULENCE GENES AND ANTIMICROBIAL RESISTANCE PATTERNS OF ENTEROPATHOGENIC *ESCHERICHIA COLI* FROM RABBITS IN SOUTHERN ITALY

CAMARDA A., PENNELLI D., BATTISTA P., MARTELLA V., GRECO L., ALLOGGIO I., MAZZOLINI E.*

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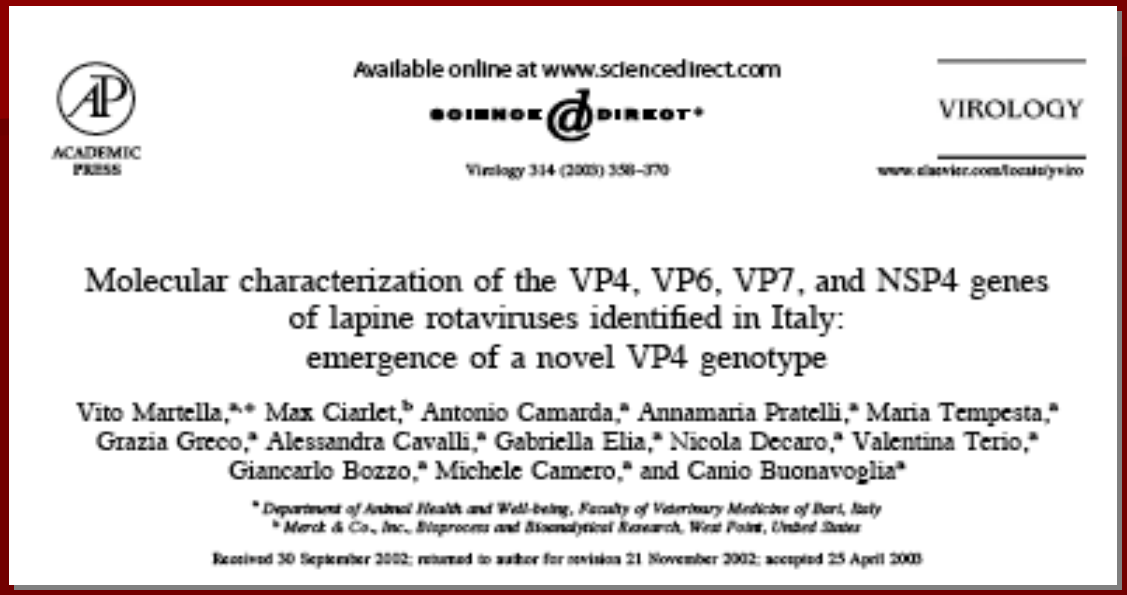
Enteric disorders in Rabbit



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Virology 314 (2003) 358–370
VIROLOGY
www.elsevier.com/locate/yviro

Molecular characterization of the VP4, VP6, VP7, and NSP4 genes of lapine rotaviruses identified in Italy: emergence of a novel VP4 genotype

Vito Martella,[a,*] Max Ciarlet,[b] Antonio Camarda,[a] Annamaria Pratelli,[a] Maria Tempesta,[a] Grazia Greco,[a] Alessandra Cavalli,[a] Gabriella Elia,[a] Nicola Decaro,[a] Valentina Terio,[a] Giancarlo Bozzo,[a] Michele Camero,[a] and Canio Buonavoglia[a]

[a] Department of Animal Health and Well-being, Faculty of Veterinary Medicine of Bari, Italy
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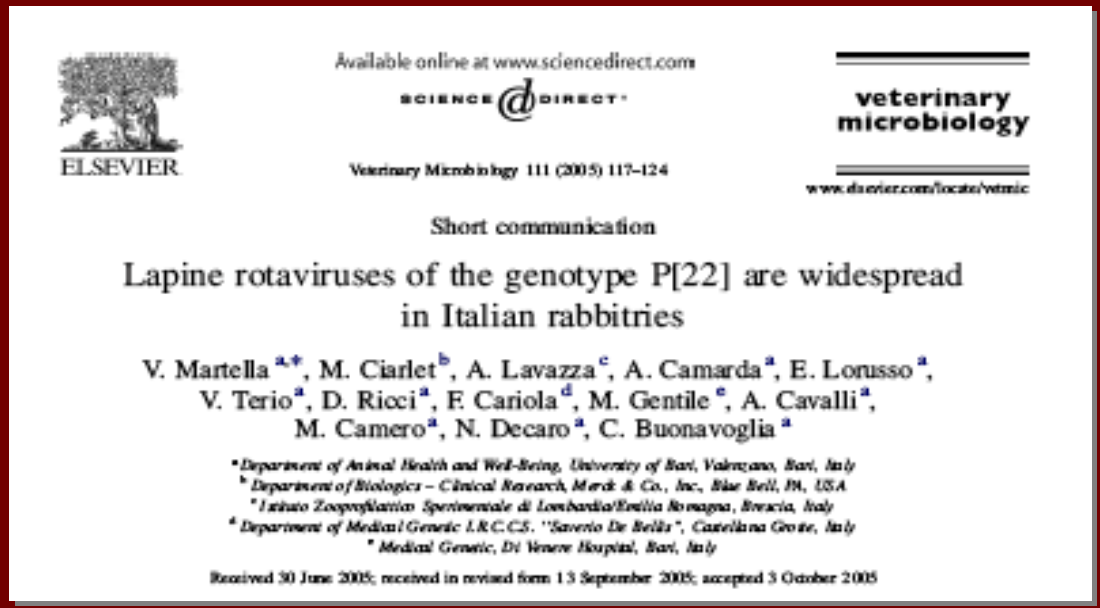
Received 30 September 2002; returned to author for revision 21 November 2002; accepted 25 April 2003

Evaluation of the genotipes of Rotavirus circulating in rabbitries of Italy

Evaluation of the effects of Rotavirus infections on the enteritis of rabbit



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Veterinary Microbiology 111 (2005) 117–124
veterinary microbiology
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Short communication

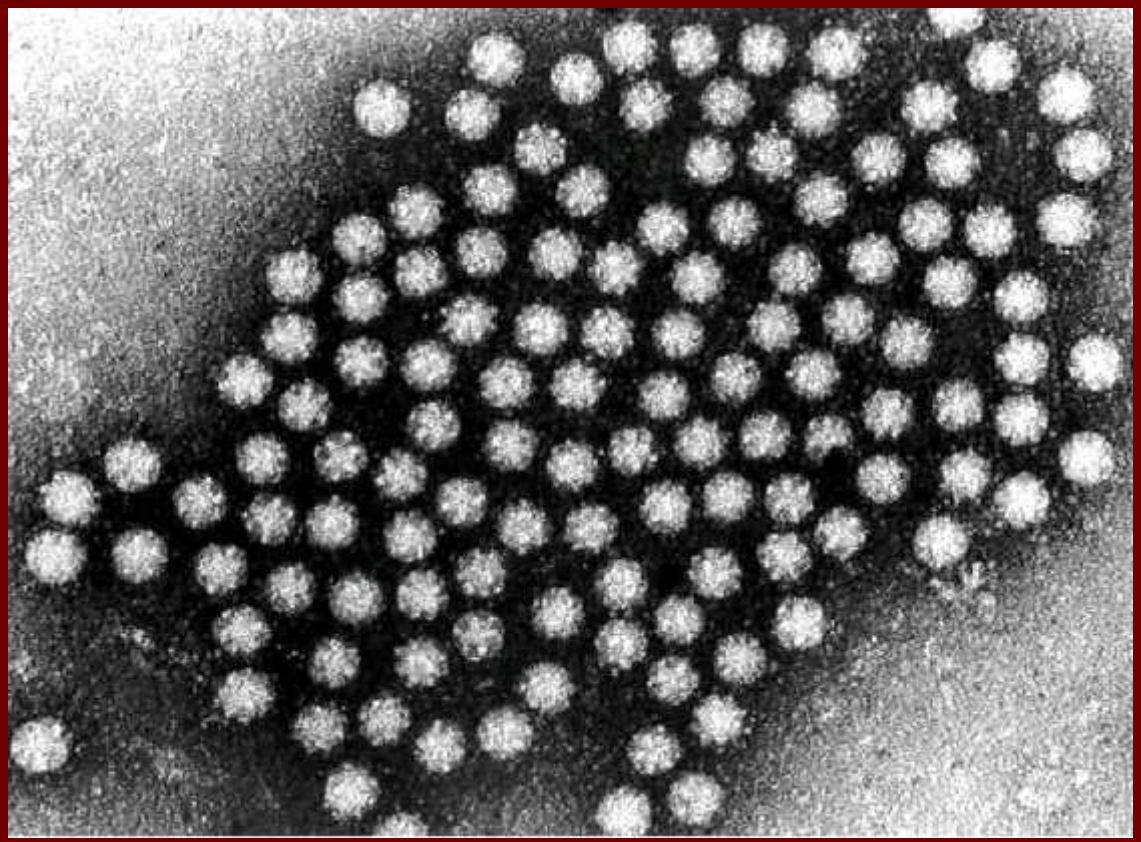
Lapine rotaviruses of the genotype P[22] are widespread in Italian rabbitries

V. Martella [a,*], M. Ciarlet [b], A. Lavazza [c], A. Camarda [a], E. Lorusso [a], V. Terio [a], D. Ricci [a], F. Cariola [d], M. Gentile [e], A. Cavalli [a], M. Camero [a], N. Decaro [a], C. Buonavoglia [a]

[a] Department of Animal Health and Well-Being, University of Bari, Valenzano, Bari, Italy
[b] Department of Biologics – Clinical Research, Merck & Co., Inc., Blue Bell, PA, USA
[c] Istituto Zooprofilattico Sperimentale di Lombardia/Emilia Romagna, Brescia, Italy
[d] Department of Medical Genetic I.R.C.C.S. "Saverio De Bellis", Castellana Grotte, Italy
[e] Medical Genetic, Di Venere Hospital, Bari, Italy

Received 30 June 2005; received in revised form 13 September 2005; accepted 3 October 2005

Enteric Disorders in Rabbit

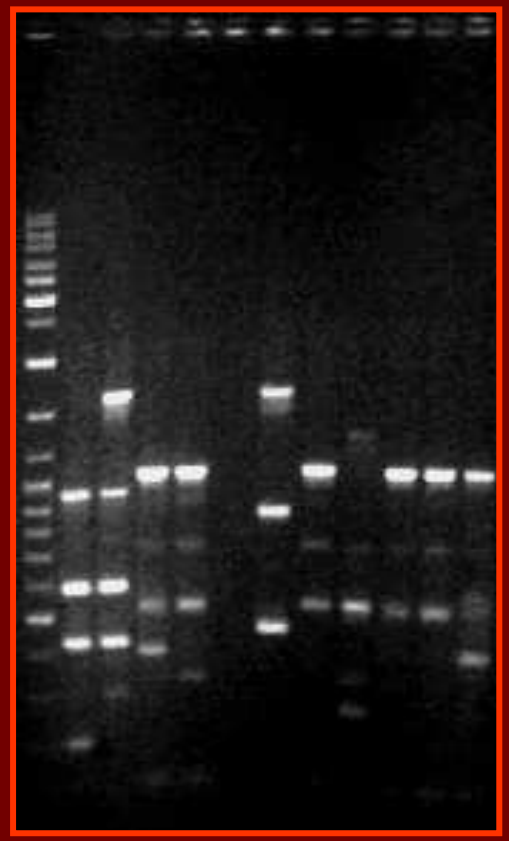


Evaluation of the genotipes of Astrovirus circulating in rabbitries of Italy

Evaluation of the effects of Astrovirus infections on the enteritis of rabbit

Staphyloccosis in rabbits

Evaluation of virulence genes in *Staphylococcus aureus* isolated from rabbits



Phenotypic and genetic characterization of Stapylococcus aureus isolated in Italy from rabbits

A New Topic

Medical Mycology 2010, Early Online, 1–6

informa
healthcare

Epidemiology and risk factors for dermatophytoses in rabbit farms

C. CAFARCHIA*, A. CAMARDA*, C. COCCIOLI*, L. A. FIGUEREDO*, E. CIRCELLA*, P. DANESI†, G. CAPELLI† & D. OTRANTO*

*Dipartimento di Sanità Pubblica e Zootecnia, Facoltà di Medicina Veterinaria Università degli studi di Bari, Italy, and †Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro, Padova, Italy

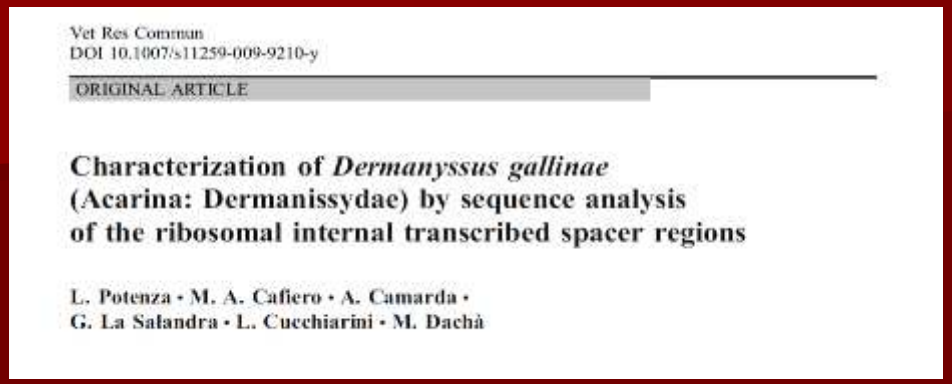
- **First: Epidemiology of Dermatophytoses in rabbit farms**

Evolution and next steps

- Pharmacological Control
- Immunity and vaccination

Diseases of Poultry

DERMANYSSUS GALLINAE

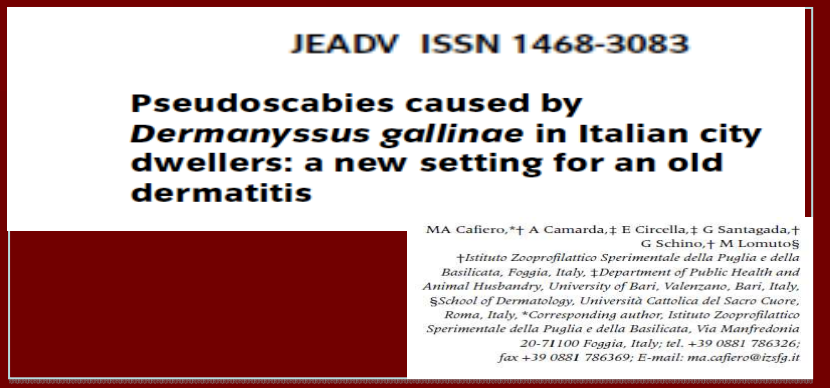


Vet Res Commun
DOI 10.1007/s11259-009-9210-y

ORIGINAL ARTICLE

Characterization of *Dermanyssus gallinae* (Acarina: Dermanissydae) by sequence analysis of the ribosomal internal transcribed spacer regions

L. Potenza · M. A. Cafiero · A. Camarda · G. La Salandra · L. Cucchiarini · M. Dachà



JEADV ISSN 1468-3083

Pseudoscabies caused by *Dermanyssus gallinae* in Italian city dwellers: a new setting for an old dermatitis

MA Cafiero,*† A Camarda,‡ E Circella,‡ G Santagada,† G Schino,† M Lomuto§
†Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata, Foggia, Italy, ‡Department of Public Health and Animal Husbandry, University of Bari, Valenzano, Bari, Italy, §School of Dermatology, Università Cattolica del Sacro Cuore, Roma, Italy, *Corresponding author, Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata, Via Manfredonia 20-71100 Foggia, Italy; tel. +39 0881 786326; fax +39 0881 786369; E-mail: ma.cafiero@izsfg.it

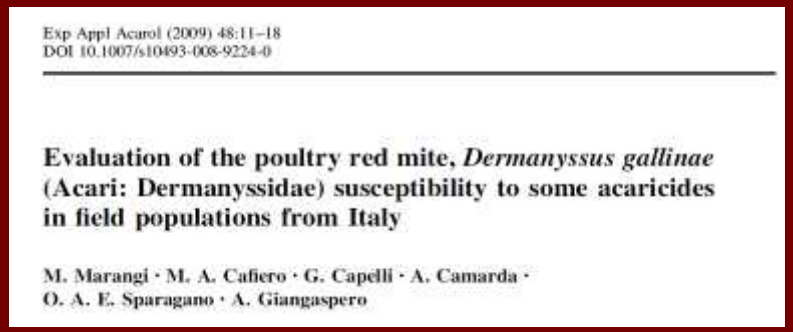
Phylogenetic aspects

Human infestion

Dermanyssus gallinae

Control of infestation

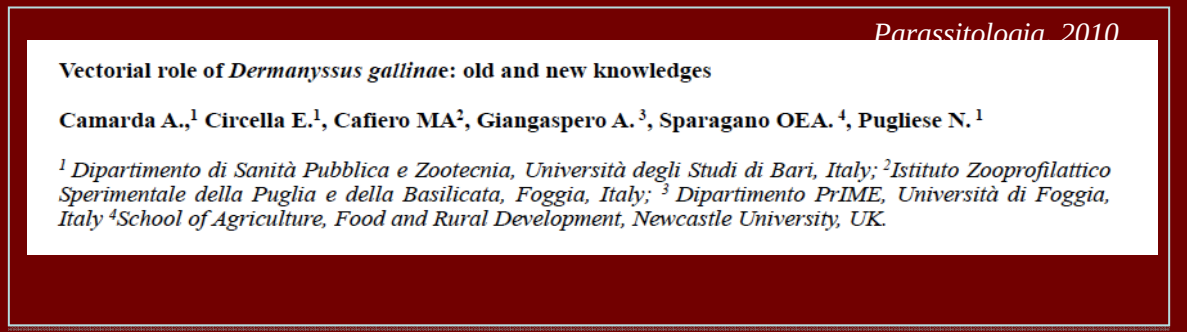
Vectorial role



Exp Appl Acarol (2009) 48:11–18
DOI 10.1007/s10493-008-9224-0

Evaluation of the poultry red mite, *Dermanyssus gallinae* (Acari: Dermanyssidae) susceptibility to some acaricides in field populations from Italy

M. Marangi · M. A. Cafiero · G. Capelli · A. Camarda · O. A. E. Sparagano · A. Giangaspero



Parassitologia 2010

Vectorial role of *Dermanyssus gallinae*: old and new knowledges

Camarda A.,[1] Circella E.[1], Cafiero MA[2], Giangaspero A.[3], Sparagano OEA.[4], Pugliese N.[1]

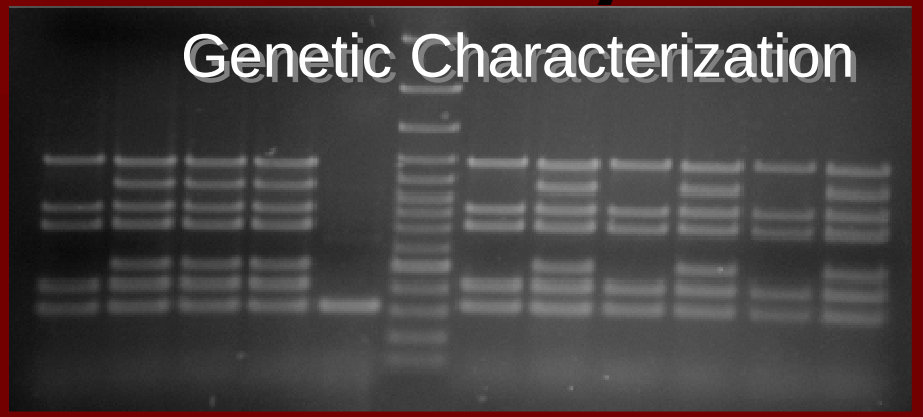
[1] Dipartimento di Sanità Pubblica e Zootecnia, Università degli Studi di Bari, Italy; [2]Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata, Foggia, Italy; [3] Dipartimento PrIME, Università di Foggia, Italy [4]School of Agriculture, Food and Rural Development, Newcastle University, UK.

E. Coli infections in Poultry

Ital.J.Anim.Sci. vol. 8, 775-779, 2009

Virulence - associated genes in Avian Pathogenic *Escherichia coli* of turkey

Elena Circella[1], Donato Pennelli[2], Silvia Tagliabue[2], Raffaella Ceruti[3], Davide Giovanardi[4], Antonio Camarda[1]



E. coli

Antimicrobial resistance

Ital.J.Anim.Sci. vol. 8, 771-774, 2009

Multiple antimicrobial resistance among Avian *Escherichia coli* strains in Albania

Tana Shtylla[1], Elena Circella[2], Anna Madio[2], Giancarlo Di Paola[2], Pranvera Çabeli[1], Ilirian Kumbe[1], Alda Kika[3], Antonio Camarda[2]

[1]Veterinary Medicine Faculty. University of Tirana, Albania
[2]Dipartimento di Sanità Pubblica e Zootecnia. Università di Bari, Italy
[3]Natural Sciences Faculty. University of Tirana, Albania

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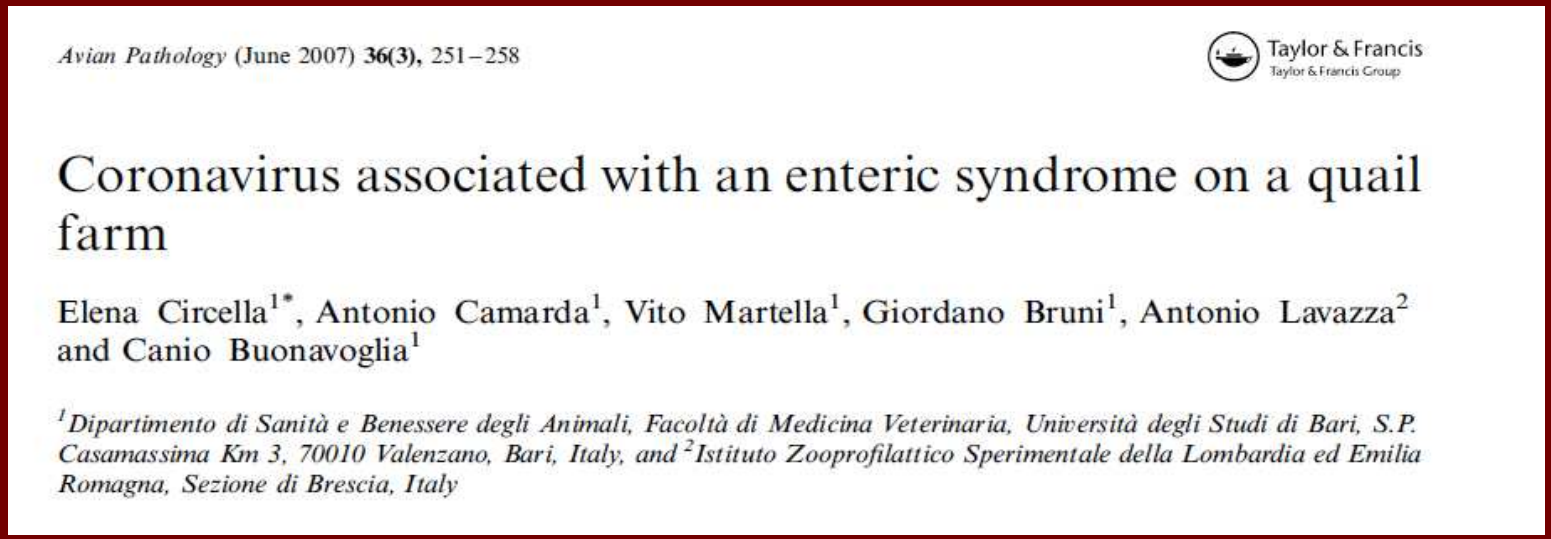
Salmonella gallinarum, S. enteritidis , S. Typhimurium

- Genetic identification
- Immunological control – Vaccine tests
- Epidemiology
- Antibiotic resistance

Research on Viruses infections in poultry

- Coronavirus
- Reovirus
- Circovirus (BFDV)



Avian Pathology (June 2007) **36(3)**, 251–258

Taylor & Francis
Taylor & Francis Group

Coronavirus associated with an enteric syndrome on a quail farm

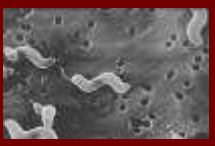
Elena Circella[1*], Antonio Camarda[1], Vito Martella[1], Giordano Bruni[1], Antonio Lavazza[2] and Canio Buonavoglia[1]

[1]*Dipartimento di Sanità e Benessere degli Animali, Facoltà di Medicina Veterinaria, Università degli Studi di Bari, S.P. Casamassima Km 3, 70010 Valenzano, Bari, Italy, and* [2]*Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia Romagna, Sezione di Brescia, Italy*

Laboratory features

Routine applications

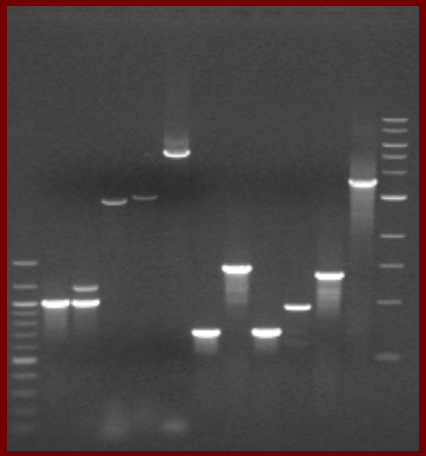
Pathogens detection and identification



Bacterial pathogens (i.e. Salmonella spp., *Mycoplasma* spp. *Chlamydia* spp., *Campylobacter* spp.)

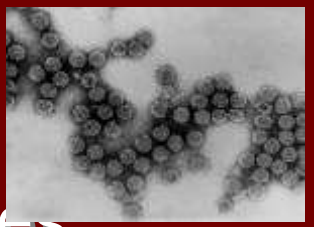
DNA viruses (i.e. Circovirus, APV, Fowl Pox Virus)

RNA viruses (i.e. Reovirus, Astrovirus, Newcastle Disease Virus, Orthomyxovirus)



Pathogens characterization

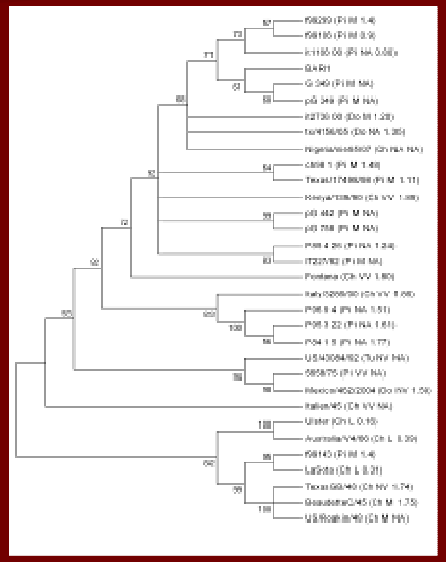
- Detection of virulence genes and/or pathogenicity islands
- Detection of antimicrobial resistance genes



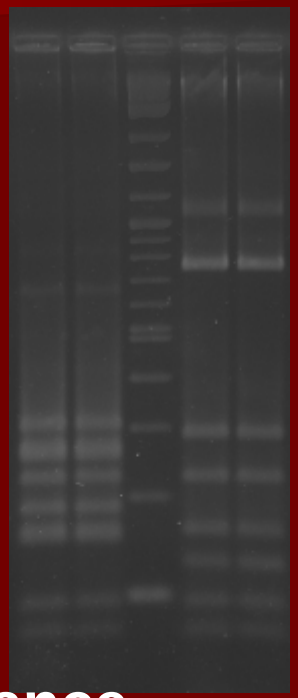
Applied research

Pathogen characterization

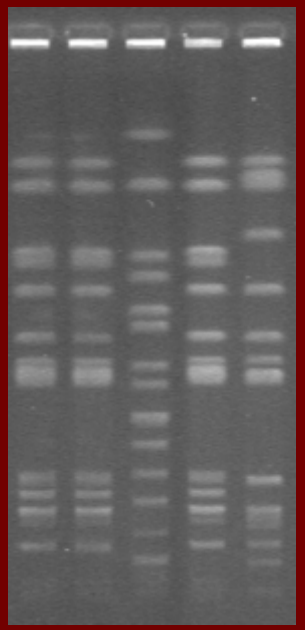
- Phylogeny studies



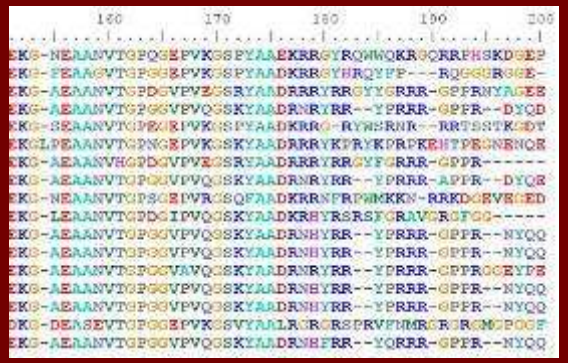
-RFLP



-PFGE



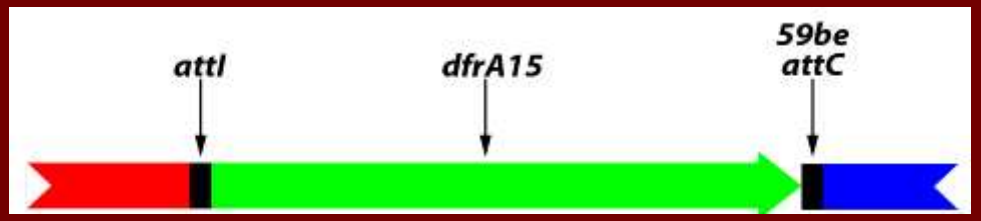
-Nucleotide and/or amino acid sequence



- Antimicrobial resistance

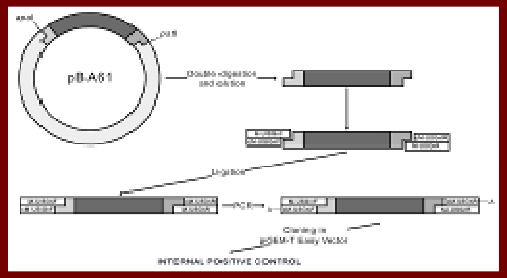
Identification and characterization of the antimicrobial resistance genes

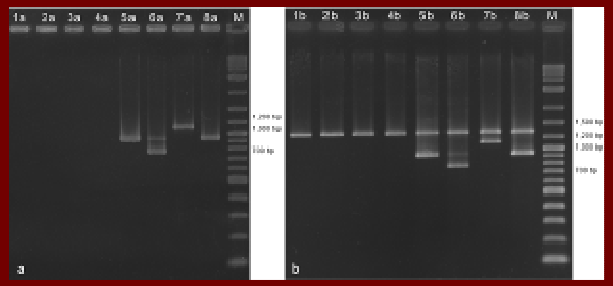
Studies about horizontal gene tranfer of the antimicrobial resistance genes



R&D

- **Design, set up and validation of new molecular protocols for detection and identification of pathogens**





- **Evolutionary studies**
  - *In silico* genome comparisons
  - Phylogenetic studies based on polymorphic loci
- **Microbial population studies**
  - Characterization of microbial communities throgh rRNA 16S analysis
  - Definition of resistomes
- **Functional genetic studies**
  - Isolation, cloning and characterization of microbial genes
  - Expression studies

Collaborations

- University of Bari (Italy)
  - DISPEZ - Section of Infectious Diseases
  - DISPEZ – Section of Parasitology
  - DEPT. of Genetic and Microbiology
- University of Foggia (Italy)
  - PrIME and Centro Interdipartimentale Bioagromed
- University of Urbino (Italy)
  - Dept. of Biomolecular Sciences
- Istituto Zooprofilattico Sperimentale della Puglia e Basilicata (Italy)
- Newcastle University (UK)
  - School of Agriculture, Food and Rural Development
- Tirana University
  - Faculty of Veterinary Medicine
- Fatro farmaceuticals
- Bayer Animal Health


Thanks for your attention