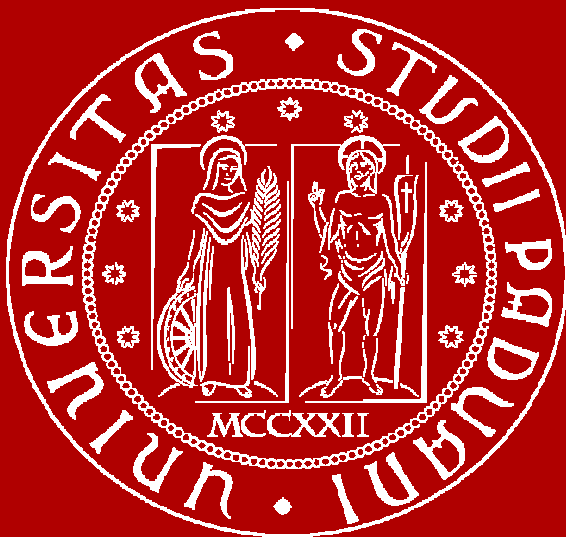


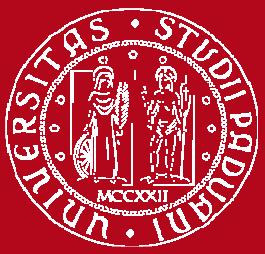
Visit of Chinese delegation to the University of Padova
Research in rabbit science and production in China and Italy
Monday, September 13, 2010

**FACULTY OF VETERINARY MEDICINE:
teaching courses and main
research activities**

Lucia Bailoni



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DI PADOVA



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DI PADOVA

Very brief history

UNIVERSITÀ degli STUDI di PADOVA

Founded on 1222

"Collegium Zoiatricum"
1773

Veterinary Faculty re-opened on
1992





UNIVERSITÀ DEGLI STUDI DI PADOVA



Full approuvment

**European Association of
Establishments for Veterinary
Education (EAEVE) 2010**

Website: *www.veterinaria.unipd.it*

24-hr service

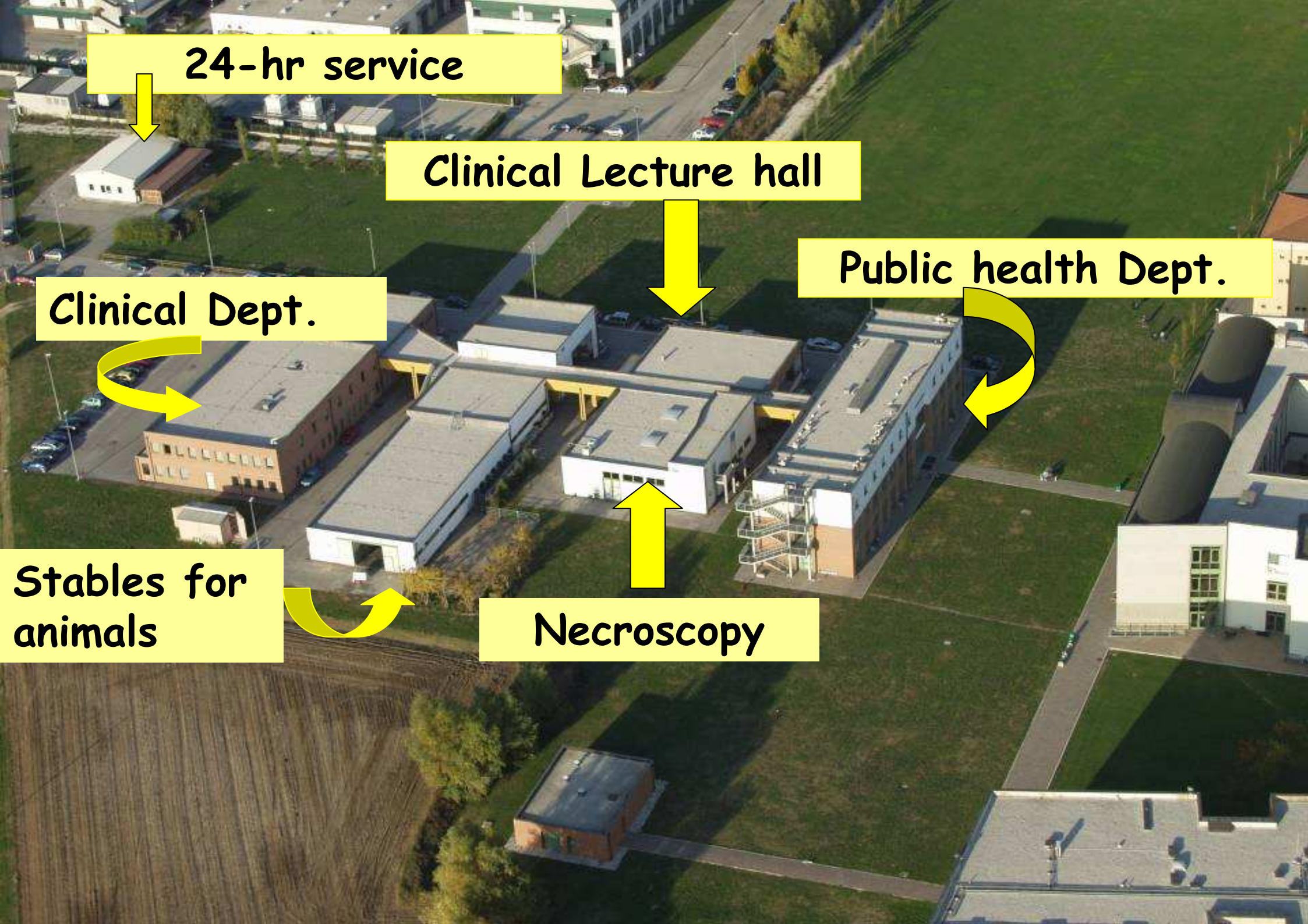
Clinical Lecture hall

Public health Dept.

Clinical Dept.

Stables for animals

Necroscopy





Stable



Large animals
Surgery



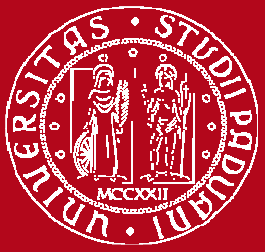
**Small animals
Surgery**

TIGER in the Computed Tomography (CT)



22 1 2007





Degree courses offered by the Faculty

5-years degree course

- **Veterinary Medicine**

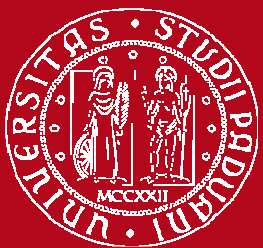
3-years degree courses

- **Safety and hygiene of food products**
- **Health biotechnologies**
(in collaboration with other faculties)
- **Animal science and technology**
(in collaboration with other faculties)

2-years degree course

- **Biotechnology applied to food safety and nutrition**
(in collaboration with other faculties)





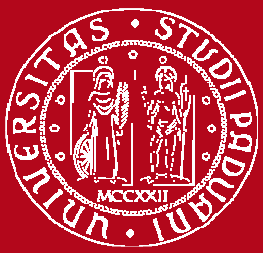
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Veterinary Medicine Degree Course

Academic year	Students present at the admission test	Available places ("numerous clausus")
2009/2010	547	63+7



Academic year 09/10	Male	Female	Foreign (from non EU countries)	Total
Students n.	157	353	14	524
Percentage	30%	67%	3%	100%

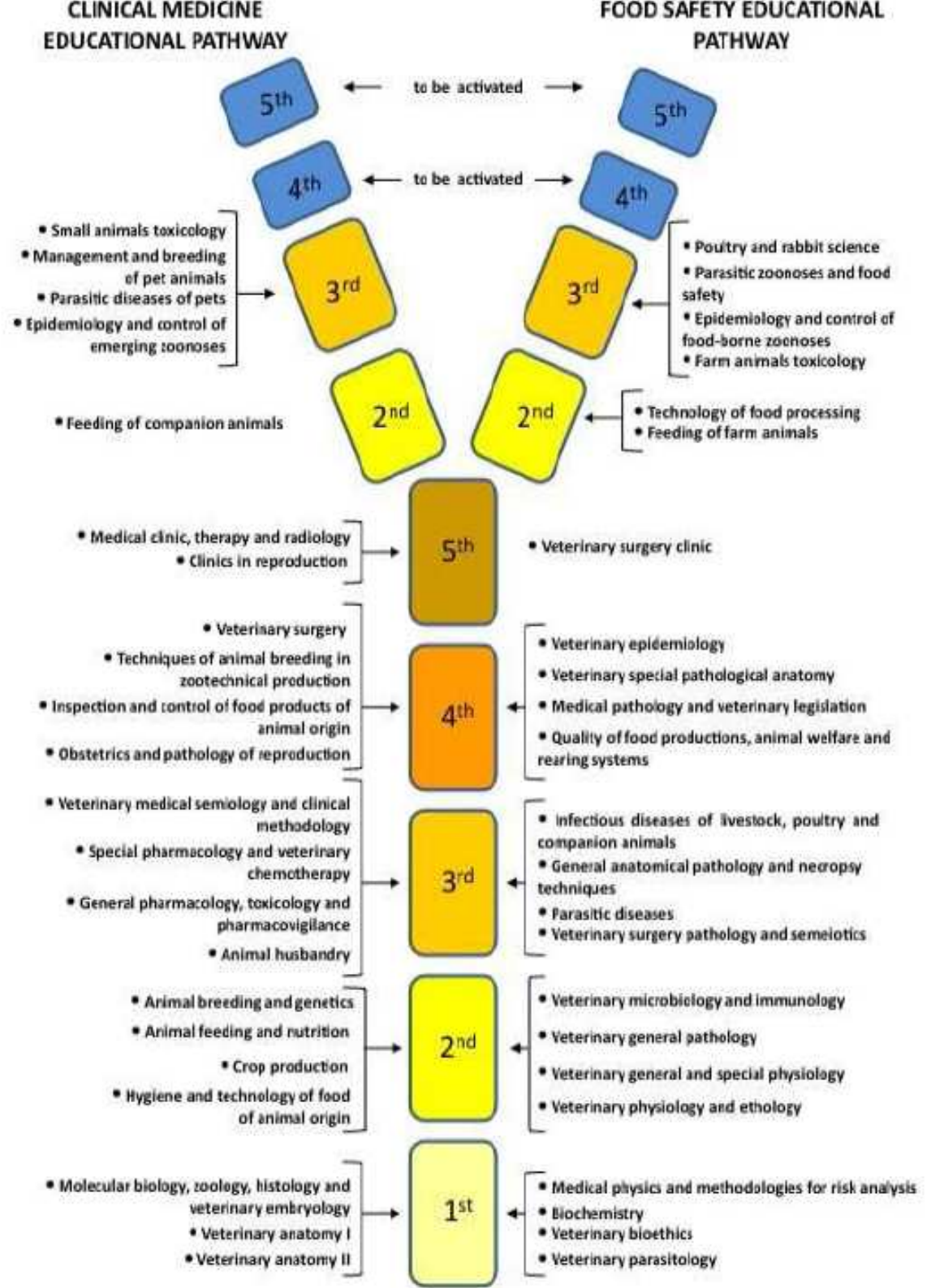


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The "y" configuration of the Veterinary Medicine course 300 ULC

Beginning from 2° year the student must choice between 2 curricula

45 ULC = "Tirocinio" or practical training supervised activity



SOCRATES/ERASMUS

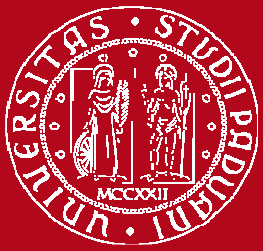
- Barcellona (Spagna)
- Caceres (Spagna)
- Madrid (Spagna)
- Murcia (Spagna)
- Lisbona (Portogallo)
- Berna (Svizzera)
- Zurigo (Svizzera)
- Gent (Belgio)
- Kosice (Slovacchia)
- Ankara (Turchia)
- Ondokuz (Turchia)



PROJECTS OF LEARNING, RESEARCH AND DEVELOPMENT

- **Oslo (Norway)**
- **Iowa (USA)**
- **Texas A&M (USA)**
- **San Paolo (Brasil)**
- **Antananarivo (Madagascar)**
- **La Molina (Perù)**





UNIVERSITY

- **Schools of PhD**

- **Veterinary Science**

 - Public Health and Comparative Pathology

 - Veterinary and Comparative Biomedical Science

 - Clinical Veterinary Science

- **Animal Science**

 - Animal production, feeding, quality of products and welfare

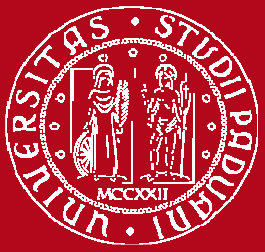
 - Animal genetics, biotechnology and conservation of genetic resources

- **Post Degree Schools**

- **Breeding, Hygiene, Pathology of fishes**

- **Animal derived food Hygiene**

- **Animal Health**



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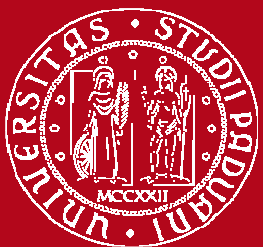
...and after the Degree...?

MASTER di Ist level in
VETERINARY INTERNATIONAL COOPERATION

MASTER di IInd level in
VETERINARY PUBLIC HEALTH

MASTER di IInd level in
APPLIED ETHOLOGY AND ANIMAL WELFARE
(in collaboration with Bologna University)



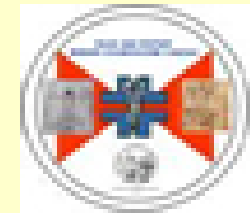


Departments of the VET Faculty

- **Dept. of Experimental Veterinary Science**
www.sperivet.unipd.it



- **Dept. of Public Health, Comparative Pathology and Veterinary Hygiene**
www.sanitaveterinaria.unipd.it



- **Dept. of Clinical Science**
www.veterinaria.unipd.it



- **Dept. of Animal Science (DSA)
(MED VET and AGR faculties)**
www.dsa.unipd.it





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Department of Experimental Veterinary Science

VETERINARY ENDOCRINOLOGY AND BEHAVIOUR

Endocrine system of domestic animals

Embryo and fetal changes in the nervous system

Reproductive efficiency in farm animal and pets

Neuro endocrine control of behaviour

Animal-owner interactions

ACQUATIC ORGANISMS

Marine mammals, fish and invertebrates

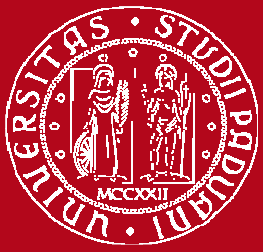
Bank of marine mammal tissue

Differentiation, development and welfare of fish and invertebrates

PATHOGENIC MECHANISMS INVOLVED IN GENETIC AND NEURODEGENERATIVE DISEASES

Selected protein involved in relevant diseases





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Department of Experimental Veterinary Science

PARASITIC DISEASES AND PUBLIC HEALTH

Epidemiological features of some parasitic diseases

Emerging vector-borne parasitic diseases

Protozoan infections

Isolation of species and strains with zoonotic potential

Identification of risk factors for each kind of disease

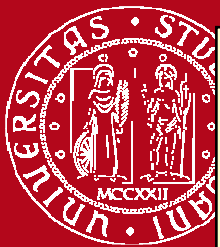
Development and validation of diagnostic tools



SKELETAL MUSCLE: STRUCTURE, FUNCTION AND DEVELOPMENT

Influences of myosin heavy chain isoform and myogenic factors expression on different kind of striated muscle





Department of Public Health, Comparative Pathology and Veterinary Hygiene

APPLIED DIAGNOSTICS

Study of new diseases or new morphological aspects of lesions

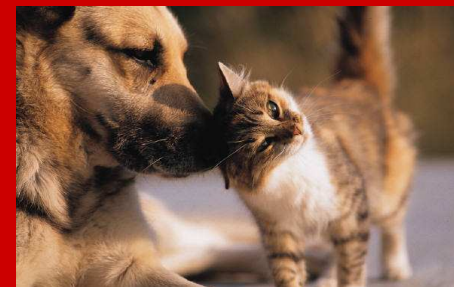
Gross and histopathology in small and large animals

Imaging

Analytic lab exams

Cytology

Molecular biology



MOLECULAR EVOLUTION AND APPLIED GENOMICS (MEAG)

Study on animal diversity by molecular markers

Study of the evolution of gene families (TLR and MHC)

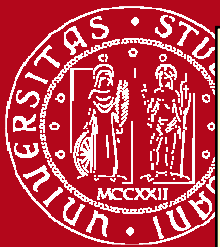
A micro-array technology to study expression profiling in different species

TRACEABILITY OF SPECIES AND ANIMAL PRODUCTS

DNA based test

Expression profiling of target tissues





Department of Public Health, Comparative Pathology and Veterinary Hygiene

FOOD SAFETY

Microbiological risk assesment of food of animal origin
Detection of pathogenic and/or spoiling microorganisms
in food and feed



Early detection of residue of illegally administered growth-promoting agents

ANIMAL HEALTH

Infectious diseases of domestic and wild animals and zoonoses



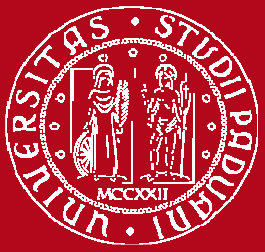
ANIMAL MODEL

Research on tumour pathologies

Survey of genetically-based pathologies in domestic animals

Identify similarities and differences for mammary tumours between animals
and human

Xenotransplantation (mechanisms involved in xenograft rejection, role of
genetic engineering)



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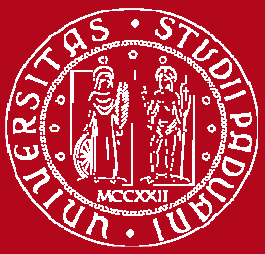
EXPERIMENTAL CLINIC

Use of stem cells (repopulation of heart valves in swine and ovines)
Xenotransplantation between transgenic pigs and non-human primates

SMALL ANIMALS AND NON CONVENTIONAL ANIMALS CLINIC

Improvement of fertility in dogs and cats
Articular diseases and liver function in dogs
Clinical application of multi-layer tomography techniques
Metabolic bone disease in some species of reptile
Use of radiographic/densitometric techniques to determine age in cetaceans
Tomography anatomy of the rabbit
Development of innovative techniques of imaging diagnostics
Emerging diseases (particularly those of endocrine system)
Animal welfare
Acquisition of new surgical techniques





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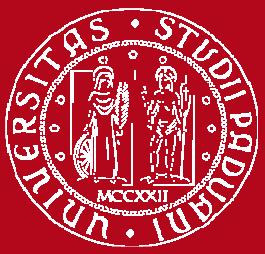
CLINIC AND BREEDING OF PRODUCTION ANIMALS

Welfare and health of farm animals

Reproductive status

Health of newborn





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Department of Animal Science (DSA)



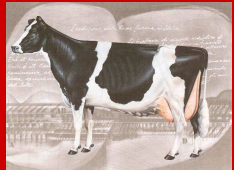
ANIMAL BREEDING

Genetic analysis of quality of animal products

Genetic analysis of skeletal, heart and other complex diseases in dogs

Integration of molecular genetics methods in breeding programs

Development of advanced biostatistics methods for animal breeding



FEEDING AND NUTRITION

Development of chemical and nutritional procedure to evaluate animal feeds

In situ and in vitro techniques to estimate rumen degradation of feeds

In vivo and in vitro techniques to estimate digestibility of feeds

Nutritive value of diets for athletic horses

Dietetic role of the fibre in monogastric animals

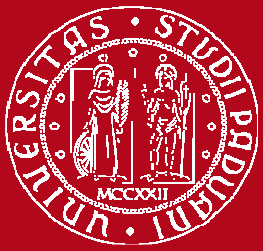
Estimation of energy requirements in obese in dogs and cats

Estimation of energy requirements in hospitalized dogs

Developments of diets for companion rabbits

Feeding strategy to reduce environmental pollution





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Department of Animal Science (DSA)



ANIMAL HUSBANDRY

Methods for the evaluation of physical traits in diet for beef and dairy cattle;
Management in dairy and beef cattle and relationship with quality of production;
Relationship between type of floor and health status of beef cattle

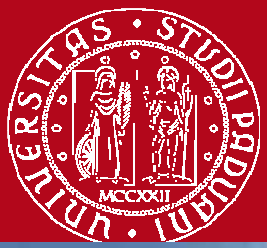
ANIMAL WELFARE

Housing systems and diets address to meet behavioural needs of farm and companion animal;
Rearing strategies address to avoid mutilation in farm animal (pig tail docking and cattle dehorning);
Welfare assessing tools to apply at the farm level and at the shelters;

RABBIT AND POULTRY SCIENCE

Relationships between nutrition and health in poultry and rabbits
Energy and protein metabolism in rabbits
Effect of rearing systems and management on performance and welfare of rabbits, poultry and fish
Factors affecting meat quality in rabbits, poultry and fish





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Thank you very
much for your
attention

