DEPARTMENT

VETERINARY SCIENCES

TO RESEARCH, EDUCATE, COLLABORATE AND INNOVATE THE IMPROVEMENT FOR HEALTH AND WELLNESS IN ANIMALS, PEOPLE AND SOCIETY
DEPARTMENT AT A GLANCE

- Graduate students: 21
- Technical and administrative staff (Research support staff): 57(3)
- Studies Programs: 8
- Research staff: 67

Publications N. 10186
- Arpi 02/04/2019

Patents N. 0
- Arpi 02/04/2019

Spin off N. 1
- Sito Unipi 02/04/2019
## Research Areas

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<th>Area</th>
<th>Description</th>
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<td>One Health, animal health &amp; food safety</td>
<td>Multidisciplinary perspective – infectious and parasitological diseases, animal health, therapies, food safety, microbiological-toxicological-environmental control</td>
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<td>Human, animal and environment relationships on health</td>
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<td>Dynamics understanding of factors affecting the improvement in animal health and food safety in relation to human health</td>
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<td>One medicine the contribute from the Vet area</td>
<td>Studies on healthcare recognising overlaps between veterinary and human medicine</td>
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<td>Human-animal related pathologies (cancer related pathologies, ageing and related diseases and therapeutic treatments, surgical interventions, herd health management, large animal diseases related to public health)</td>
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<td>Human-animal bonds</td>
<td>Animal assisted activities and therapies, social farming, provision of innovative services and their possible positive outcomes on participants and the society</td>
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<td>Innovative veterinary therapies for users, support the quality of family’s life hosting a pet.</td>
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<td>Quality food, Sustainable animal production and rural areas</td>
<td>Studies on food quality and design of innovative processes and products in animal production (dairy and meat products, eggs, aquatic organisms and bee products) and in multifunctional farms.</td>
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<td>Reduce negative footprint on environment, on animal welfare as well as on consumers ethical concerns.</td>
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<td>High value(s) chains in animal production, circular economy and supportive development of rural-urban links.</td>
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RESEARCH PROJECTS: EXAMPLES

Veterinary public health & Antibiotic resistance in animal disease and food
- Microbiological mechanism enhancing bacteria antagonism
- Toxicogical control on animal production and food chains
- Epidemiology of endoparasites, protozoa and fungi
- Virological, serological and phylogenetic investigations on viral infectious diseases of wild animals (norovirus, Hepatite E)

Innovative studies in pathology, surgical and clinical
- Veterinary and comparative oncology, studies on malignancy markers and carcinogenicity mechanism
- Innovative diagnostic procedures, surgical intervention and therapeutic approaches in oncology, kidney and heart disease
- Herd health management, diagnostic and prognostic markers of sepsis in large animals and horse

Animal assisted therapy, animal behaviour and social farming
- Animal behaviour and welfare in connection with human interaction and operational use in AAT/AAA
- Innovative use of multifunctional farms in social services provision

Sustainability and biodiversity preservation
- Animal biodiversity conservation
- Sustainability in animal production
- Innovative products and their quality (Meat, milk, honey and fish quality products)
## Research Impact

### Local
- Spin-off on expert system for food security
- Labelling of innovative ethical food value chains
- Partnerships and research collaboration with SMEs

### Healthcare:
- Veterinary Teaching Hospital
- Certified labs (ISO)

### Public engagement
- Impact on policy making (different areas of interest: Health, Agriculture)
- Cooperation with local Health institutions (ASL, IIZZSS) and developing countries