PARASITIC DISEASES IN COMPANION ANIMALS

Description

PET Parasite LAB is a research group that collaborates with some public and private companies. Their research lines focus on the epidemiology and control of parasite and vector-borne diseases with special interest on zoonotic diseases that affect pets.

Lines of investigation:

- Epidemiology and control: Epidemiology and control of parasitic diseases of public health concern (e.g., leishmaniosis, other vector-borne diseases: toxoplasmosis, giardiosis, toxocariosis, etc.)

- Technical assistance: Technical assistance in the control of parasite diseases: technical advice and interpretation of the results of case reports of parasite or vector-borne diseases affecting pets. Managing transmissible diseases in dogs and cats: shelter medicine (preventive medicine, outbreak control, check-ups in animals for adoption).


- Predictive modelling: Implementing predictive models of the spatio-temporal dispersion of arthropod vectors based on climate and environmental data using spatial analysis and geographical information system tools (GIS).

How does it work

Equipment and facilities:

- Laboratories equipped for light and fluorescence microscopy, along with coprological parasite disease diagnosis studies.
- Molecular techniques for the etiological diagnosis of parasitic diseases.

Advantages

- The One Health concept promoting coordinated work on the prevention of diseases with repercussions on public and animal health. Active collaboration with the Instituto de Salud Pública of the Comunidad de Madrid through a formal collaboration agreement targeted at controlling the main dog and cat zoonoses in the Comunidad de Madrid. A leishmaniosis surveillance system among stray dogs in the region of Madrid is ongoing since 1996. Our group has been pioneer in the reporting of emerging zoonotic diseases such as thelaziosis and feline tritrichomonosis.
Where has it been developed

PET Parasite LAB is a multidisciplinary group formed by investigators in Veterinary, Biology and Parasitology. Their research lines focus on the epidemiology and control of parasite and vector-borne diseases with special interest on zoonotic diseases that affect pets.

And also

Strong points:

• Collaborating international institutions and staff: Prof. Peter Irwin Univ. Murdoch Perth, W Australia; Prof. Dwight Bowman Univ. Cornell-USA; Prof. Domenico Otranto Univ. Bari, Italia; Prof. Gad Baneth Univ. Tel-Aviv, Israel; Prof. Patrick Bourdeau Univ. Nantes, Francia.
• Access to a relevant casuistry, based on cases managed at the Veterinary Teaching Hospital, of the main parasite diseases affecting dogs and cats such as intestinal parasites, feline toxoplasmosis, canine leishmaniosis, feline retrovirois and other vector-borne diseases.
• Technical assistance in the control of parasite diseases: technical advice and interpretation of the results of case reports of parasite or vector-borne diseases affecting pets. Managing transmissible diseases in dogs and cats: shelter medicine (preventive medicine, outbreak control, check-ups in animals for adoption).
• Established national network of sentinel veterinary clinics prepared to participate in clinical and/or epidemiological studies.
• Collaboration with veterinarian dermatology experts.

Responsible Researcher

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