

Hybrid Master's Degree

Small Animal Dermatology





Hybrid Master's Degree Small Animal Dermatology

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 ECTS Credits

website: www.techtute.com/us/veterinary-medicine/hybrid-master-degree/hybrid-master-degree-small-animal-dermatology

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01

Introduction

Dermatology is considered as one of the specialties for which more pets come to the veterinary practice. This has led to progress in studies to understand the main pathologies that affect them, promoting immunotherapy and monoclonal antibodies, the improvement of practices and treatments. For this reason, this academic institution has launched this program developed by a reference teaching team, which combines an advanced theory 100% online with a practical stay in a prestigious veterinary center. An environment where the professional will be able to update in situ their knowledge of evaluation and treatment in small animals with dermatological problems by the best specialists in this field.





This Hybrid Master's Degree in Small Animal Dermatology is the best option to keep up to date with the advances in dermatological treatments used in small animals"

Fungi, parasites, metabolic, nutritional, environmental and psychogenic problems are the main causes of dermatological problems in small animals. A wide range of factors that require an exhaustive and advanced knowledge on the part of veterinary professionals, in order to offer the most appropriate and effective treatment, depending on the characteristics of the animal.

In this scenario, recent studies have advanced in the application of various therapies such as immunotherapy or the use of monoclonal antibodies, which have proven effective in different clinical cases. In view of the wide variety of etiologies and treatments, TECH has created this Hybrid Master's Degree in Small Animal Dermatology, which responds to the need for veterinary professionals to update their knowledge.

Thus, the program allows veterinary professionals to update their knowledge in the diagnosis and treatment of dermatological diseases from a theoretical point of view. This will be possible thanks to an advanced syllabus, which will bring you closer to the latest news and scientific advances provided from the extensive practical experience of all teachers.

Once the theoretical phase is completed, the veterinarian will have an excellent opportunity to check, in situ, the techniques, methods and procedures most commonly used in a prestigious center, which has a team of professionals specialized in Dermatology.

A stay of 3 weeks duration, where you will be tutored by a specialist, who will guide you at all times, for the successful achievement of its objectives of updating, through a real clinical environment, where you will care for small animals, which present different dermatological problems and to which the most innovative therapies will be applied. A unique and flexible program that adapts perfectly to the real needs of professionals.

- ♦ This **Hybrid Master's Degree in Small Animal Dermatology** contains the most complete and up-to-date scientific program on the market. The most important features include:
- ♦ Development of practical cases presented by experts in Small Animal Dermatology
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Breakthroughs in Dermatology in Small Animals
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in Small Animal Dermatology
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



TECH offers you the opportunity you were looking for. Update your knowledge through a 100% online syllabus and a practical stay of 3 weeks in a first level veterinary center"

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This program has the best content and the best practices in the veterinary field, which will allow you to update your knowledge in Small Animal Dermatology, with the help of the best specialists"

In this proposal for a Hybrid Master's Degree, of a professionalizing nature and blended learning modality, the program is aimed at updating veterinary professionals who perform their functions in clinical centers and who require a high level of qualification. The contents are based on the latest scientific evidence, and oriented in a didactic way to integrate theoretical knowledge in veterinary practice and the theoretical-practical elements will facilitate the updating of knowledge and allow decision making in the management of small animals with dermatological problems.

Thanks to its multimedia content elaborated with the latest educational technology, they will allow the veterinary professional to obtain a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to train in real situations. This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned experts.

You will develop a specialized knowledge of skin pathophysiologies and you will deepen your knowledge of the main allergic dermatoses affecting dogs and cats, the most common pets.

You will update your knowledge in Dermatology with new findings on cutaneous autoimmune or immune-mediated diseases.



02

Why Study this Hybrid Master's Degree?

The multitude of dermatological cases in small animals has boosted their study and the contribution of more effective therapies to deal with different conditions and pathologies. Progress, which has in turn favored diagnostic methods and greater precision in the approach to diseases, sometimes autoimmune. For this reason, TECH has created this pioneering program, which combines the update in areas such as allergic dermatosis, parasitic or immune-mediated origin with a practical stay in a prestigious veterinary clinical center. This will provide the professional with a much more complete and current vision of the latest procedures used in this field, through a degree taught by an excellent team of professionals and the tutoring in the center of a specialist with extensive experience in the field of dermatology.



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TECH is the only university that will introduce you to the latest advances in Small Animal Dermatology in real clinical environments, with the help of the best specialists"

1. Updating from the latest technology and techniques available.

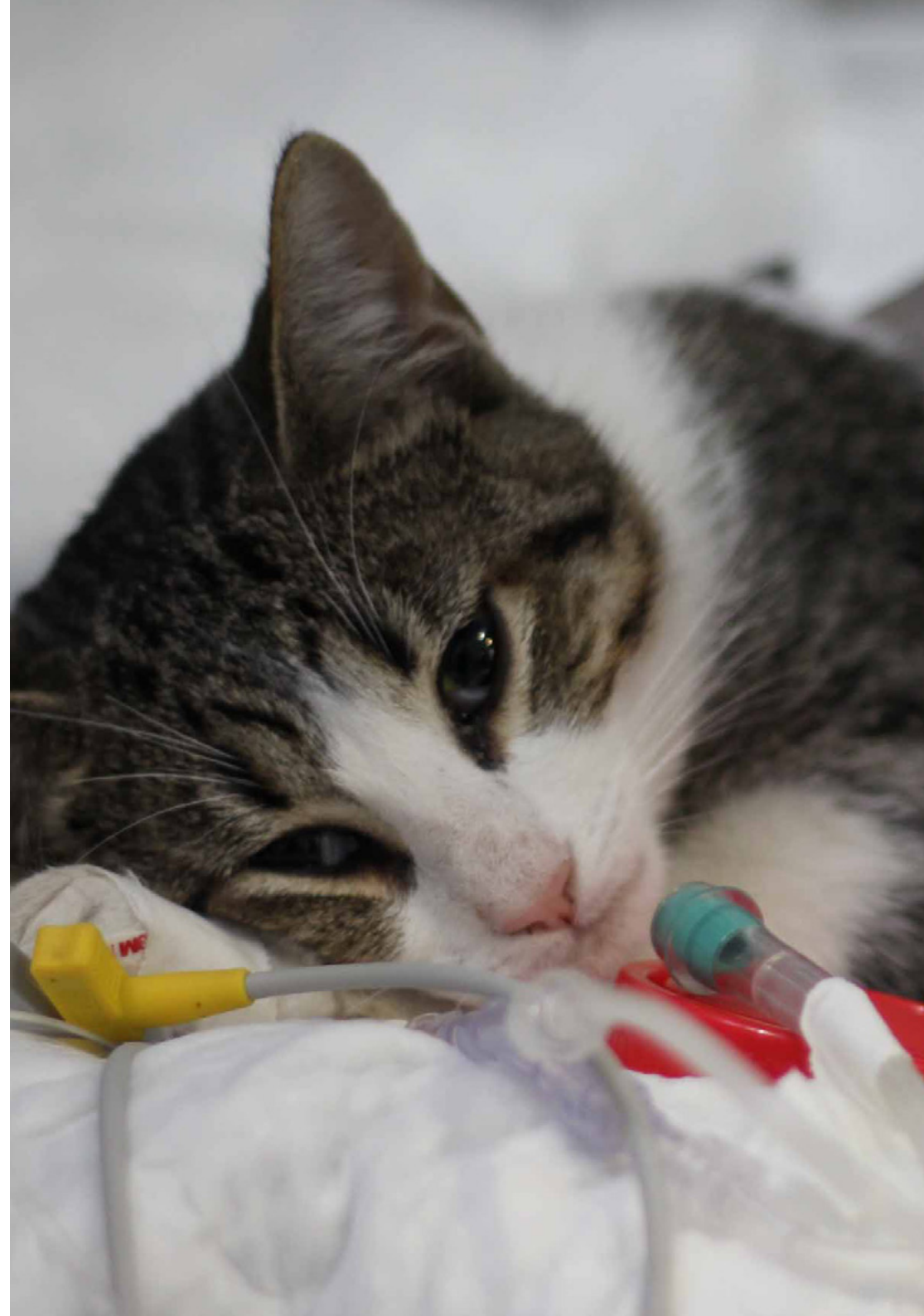
The area of Small Animal Dermatology has evolved, thanks to technological advances, which has led to the creation of devices that allow a better analysis of the different parasites and agents that cause dermatosis problems. This, in turn, has had a notorious impact on the treatments and therapies applied. For this reason, and with the aim of bringing the specialist closer to these advances, TECH presents this Hybrid Master's Degree, where the professional will enter an advanced syllabus and then in a cutting-edge clinical environment. An ideal scenario to access the latest technology used in this field and surrounded by the best specialists.

2. Gaining In-Depth Knowledge from the Experience of Top Specialists

A factor that distinguishes this academic program from the rest of the current panorama is the practical experience that the professional who enters this program will have. TECH offers the possibility of updating knowledge in a prestigious clinical environment, with first level specialists, with extensive experience in the evaluation, exploration and application of dermatological treatments in small animals. A 3-week stay, which will allow you to integrate the most advanced techniques in your daily practice.

3. Entering First-Class Clinical Environments

TECH maintains a philosophy based on offering professionals a quality qualification. To this end, it rigorously selects all the centers available for the practical stay. With this, the specialists will have guaranteed access to an excellent veterinary clinical environment, where they will be able to test the working methods and procedures in an environment of the utmost rigorousness.





4. Combining the Best Theory with State-of-the-Art Practice

Undoubtedly, the perfect combination of theory with practical stay will provide the veterinarians with the update they are looking for in Small Animal Dermatology. TECH focuses on providing a real response to the needs of professionals, through a flexible university program that provides the most recent developments in this specialized area.

5. Expanding the Boundaries of Knowledge

Precisely the theoretical-practical perspective of this Hybrid Master's Degree will lead the professionals to obtain an excellent level of updating, since they will be guided at all times by the best specialists. In this way, you will be able to put into practice the most innovative methods in the approach and study of small animals with dermatological problems. Applying it in your practice or in the best existing veterinary centers.

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*You will have full practical immersion
at the center of your choice”*

03 Objectives

This Hybrid Master's Degree in Small Animal Dermatology will provide the professional with an update on the skin lesions suffered by small animals, the performance of relevant examinations and the therapies to be applied. For this purpose, the students will have access to multimedia teaching resources, which can be accessed 24 hours a day, from any electronic device with Internet connection.



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You will have at your disposal the most innovative pedagogical tools, which you will be able to access 24 hours a day, 7 days a week"

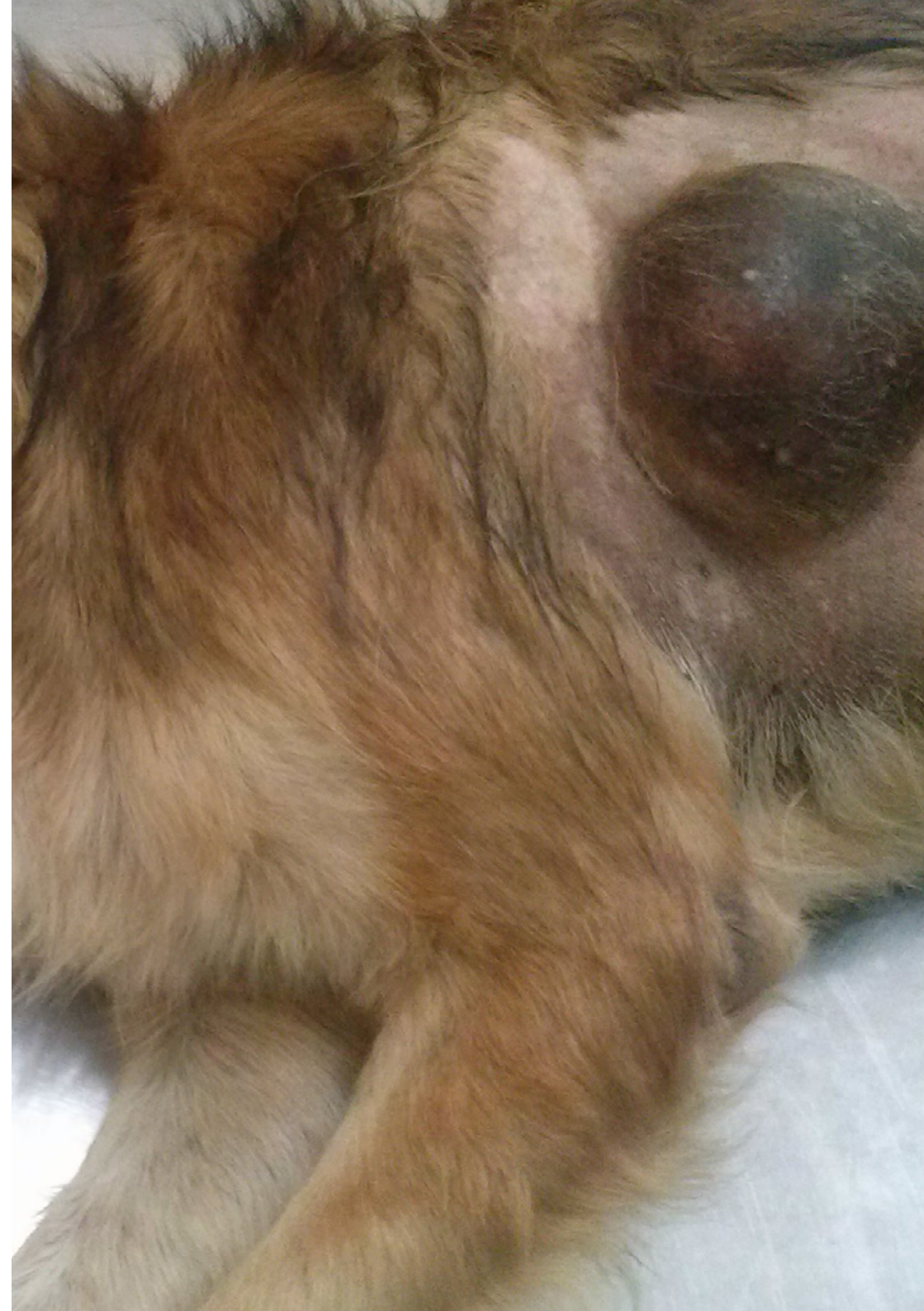


General Objective

- The design of this program has been developed with the aim of providing veterinary professionals with the most updated, specialized and advanced information in relation to skin care in small animals. This will allow them to approach the clinical pathophysiology of the different species adequately according to the guidelines of the latest advances in this science. In addition, you will delve into the latest developments in the examination of the cutaneous microbiome and dysbiosis, as well as the diagnostic and therapeutic guidelines that are having the best results in current veterinary practice



You will be able to deepen in this advanced program in the therapeutic management of the most frequent cutaneous tumors"





Specific Objectives

Module 1. The Skin as an Organ Characteristics and Diagnostic Approach

- ♦ Specify the working methodology when the presence of a cutaneous autoimmune or immune-mediated disease is suspected
- ♦ Identify the differences between the various groups of autoimmune and immunemediated diseases
- ♦ Establish the differential diagnoses of auto-immune and immune-mediated diseases according to their injury pattern and clinical presentation
- ♦ Examine the classification of autoimmune and immune-mediated diseases
- ♦ Establish the most relevant autoimmune and immunemediated diseases in the canine and feline species
- ♦ Update the therapeutic approach to immune-mediated and autoimmune diseases

Module 2. Cutaneous Dysbiosis or Alterations of the Microbiome (Bacteria and Fungi)

- ♦ Design the office where dermatology is performed, within the clinic
- ♦ Planning the logistics of engaging in this specialty
- ♦ Develop expertise in skin pathophysiology
- ♦ Analyze the cutaneous manifestations of different noxas
- ♦ Examine study methods to address them
- ♦ Determine diagnostic methods
- ♦ Develop advanced knowledge of general dermatological therapy

Module 3. Dermatoses of Parasitic Origin

- ♦ Analyze the importance of the skin barrier
- ♦ Determine the fundamental role of cytology in the diagnostic approach
- ♦ Establish the differential diagnoses of superficial and deep pyodermas
- ♦ Analyze the use of the antibiogram and its correct reading in pyodermas
- ♦ Gain in-depth knowledge of current studies on resistant pyodermas and define the most appropriate treatments
- ♦ Addressing the rational use of antibiotics in pyodermas
- ♦ Recognize the clinical features and differential diagnosis of canine and feline mycoses
- ♦ Examine the different diagnostic methods for canine and feline mycoses
- ♦ Select the most appropriate therapies for the control of canine and feline mycoses
- ♦ Identify the dermatological and systemic symptoms of canine leishmaniasis
- ♦ Select the most appropriate diagnostic techniques in each case for protozoal dermatoses
- ♦ Define the most current and appropriate treatments to control canine leishmaniasis
- ♦ Identify the symptomatology and the most up-to-date treatment of the less common dermatoses covered in the module

Module 4. Allergic Dermatoses

- ♦ Determine the main diagnostic techniques
- ♦ Analyze the biological cycle and zoonotic possibilities of the different parasites
- ♦ Identify ectoparasites that can act as vectorial transmitters of disease
- ♦ Develop the clinical picture of the different ectoparasitosis
- ♦ Analyze the differential diagnoses of the different diseases
- ♦ Explore the main treatments
- ♦ Examine the main antiparasitic drugs and their pharmacokinetics

Module 5. Immune-Mediated and Autoimmune Dermatoses

- ♦ Develop specialized knowledge of the characteristic clinical signs of each disease, the skin lesions, their distribution and how they evolve
- ♦ Analyze the pathogenic mechanism of each process
- ♦ Establish a list of differential diagnoses for each disease
- ♦ Select the most appropriate or conclusive diagnostic tests in each case
- ♦ Determine the drugs for therapy and follow-up protocols
- ♦ Evaluate risk-benefit, in case of surgical options, adapted to each patient

Module 6. Dermatoses of Endocrine, Metabolic, Nutritional and Congenital Origin: Non-inflammatory Alopecia

- ♦ Analyze the different etiopathogenic mechanisms of pruritus and its different causes
- ♦ Identify the different clinical manifestations associated with pruritus in the canine and feline patient
- ♦ Determine the common and specific symptoms associated with the different allergic dermatoses through the data collected in the clinical history and dermatological examination
- ♦ Select the diagnostic techniques necessary to make a correct diagnosis of exclusion to rule out the presence of other dermatopathies that also cause pruritus
- ♦ Generate specialized knowledge for the orderly performance of diagnostic tests aimed at identifying the allergen or allergens involved in the diagnostic approach to allergic dermatosis
- ♦ Select the most appropriate therapy for each allergic patient taking into account the type of allergic dermatosis the animal presents
- ♦ Determine the most effective and safe antipruritic therapy for each allergic patient taking into account the level of pruritus and the lesions they present
- ♦ Establish the most suitable therapy to control the microbiota and its application for each allergic patient taking into account the clinical picture it presents
- ♦ Select the most appropriate formulation for the repair and maintenance of skin barrier integrity for each allergic patient

Module 7. Dermatoses due to Keratinization Disorders and Psychogenic Dermatoses

- ♦ Design the algorithm to be able to diagnose these diseases
- ♦ Analyze the most important complementary methods in its diagnosis
- ♦ Examine for alterations in sebum production and rate of desquamation
- ♦ Establish the diagnostic protocol and the importance of always following its steps
- ♦ Learn the different types of shampoos, which are so important in these pathologies
- ♦ Develop specialized, advanced knowledge that will enable a correct anamnesis from a behavioral medicine approach
- ♦ Establish an inclusive differential diagnosis that includes psychogenic dermatoses
- ♦ Develop advanced knowledge on the application of psychotropic drugs and other products commonly used in clinical ethology
- ♦ Examine the multidisciplinary approach to dermatological processes with a behavioral and/or neurological basis in order to approach their treatment from the same point of view

Module 8. Cutaneous Neoplasms and Paraneoplasms

- ♦ Generate specialized knowledge to manage the cytology of cutaneous neoplastic tissues to be able to discern, in feasible cases, lineage and degree of differentiation Once the tumor is recognized, assess its therapeutic management
- ♦ Recognize tumors from the macroscopic point of view
- ♦ Master the cytology of neoplasms
- ♦ Establish degrees and stages
- ♦ Establish the therapeutic management of the most frequent skin tumors

Module 9. Conditions of the External Ear, Eyelids, Nails, Anal Area, Nasal Bridge and Nose

- ♦ Examine La classification and denomination of the different pathologies
- ♦ Master cytology as a fundamental tool in Otology
- ♦ Analyze the specific treatments for these dermatoses
- ♦ Reinforce the diagnostic protocol and establish the importance of following the correct steps to apply the proper treatment to combat these types of conditions

Module 10. Dermatology of Exotic Animals

- ♦ Develop specialized knowledge to carry out a complete anamnesis in exotic animals
- ♦ Examine the specific characteristics of the integument of each species
- ♦ Differentiate between injuries due to different problems
- ♦ Establish differential diagnoses according to the presentation of skin lesions
- ♦ Determine a working methodology for small mammals
- ♦ Establish a working methodology for birds and reptiles
- ♦ Propose a working methodology for amphibians and fish

04 Skills

In the course of this academic course, the professional will enhance their abilities and skills for the diagnosis of pathologies affecting the skin of small animals. In addition, the case studies provided by the teaching team, as well as the practical stay, will lead them to perfect the techniques used in the handling of this type of animals.



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This program will allow you to enhance your skills and abilities to perform correct diagnosis of dermatosis caused by fungi"



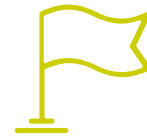
General Skills

- Analyze the different clinical manifestations associated with allergic dermatoses in dogs and cats and how to differentiate them from other dermatoses
- Identify the clinical signs and lesional patterns associated with pyodermas, fungal dermatoses and protozoal dermatoses
- Recognize dermatological tumors



*Broaden your knowledge
on the approach to dermatoses that
require special attention, thanks
to this Hybrid Master's Degree"*





Specific Skills

- ♦ Establish the correct clinical and diagnostic approaches for each dermatological disease
- ♦ Analyze the different clinical manifestations associated with allergic dermatoses in dogs and cats and how to differentiate them from other dermatoses
- ♦ Determine an appropriate methodology for the diagnosis of immune-mediated and autoimmune skin diseases
- ♦ Generate specialized knowledge on the processes related to hepatic, renal and digestive metabolism that give rise to skin anomalies
- ♦ Determine the genetic anomalies that give rise to hereditary dermatoses
- ♦ Develop specialized knowledge and skills in the care of patients with behavioral problems and dermatological manifestations or patients with a dermatological process that may be aggravated by a behavioral process
- ♦ Reach the diagnosis of the cell lineage and its approximate assessment with respect to the degree of malignancy knowing how to assess the pathology and understanding the limits that may lead us to refer the case to an oncologist
- ♦ Delve into the Dermatoses that require special attention due to their particular anatomical and differential situation
- ♦ Determine the diagnostic methods adapted to exotic animals

05

Course Management

The teaching staff of this Hybrid Master's Degree has an excellent and extensive academic and professional background, synonymous with the quality of TECH. World-renowned experts in Dermatology will give the veterinary professional a complete vision of the most common skin diseases that occur in veterinary clinics and how to treat them properly. This team is made up of a multidisciplinary and transversal cast that has poured their knowledge and experience in the design of an exceptional program, to which is added an internship in a veterinary center with extensive experience in this field, which will enable the professional to achieve their goals.





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*Experts in Small Animal Dermatology
will guide you during the 12 months
of this university program"*

International Guest Director

Dr. Domenico Santoro is an eminence in the field of **Veterinary Dermatology**. He is the **only specialist in his field to hold dual certification**, one granted by the American College of Veterinary Microbiologists (ACVM) in Bacteriology/Micology and Immunology, and the other by the Board of the American College of Veterinary Dermatology.

His career has been marked by the study of host-microbe interactions that occur in **Canine Atopic Dermatitis**. As a result of these analyses, he has developed the **evaluation of skin defense peptides**, quantifying at the molecular and protein level the expression of these products in the skin of healthy and affected dogs.

Santoro is a highly respected leader in the scientific community whose main commitment is to **continuous innovation** to promote excellence in veterinary dermatology. In the course of his clinical work, he has deepened his knowledge of the **cutaneous immune response** of dogs with Leishmaniasis, aerobic bacteria and other pathologies caused by allergens. He has also mastered cutaneous cryotherapy and laser skin surgery in pets.

In his career he also stands out for being **one of the three main researchers** in charge of the direction of the Laboratory of Comparative Dermatology of the University of Florida. From this **study center he promotes the “One Health” perspective** that investigates the development of simultaneous defenses between dogs and humans for dermatological diseases.

At the same time, he has been part of animal research departments at the **prestigious North American universities** of North Carolina and Illinois. Through his experiences, he became one of the founding members of the **International Committee for Allergic Diseases in Animals (ICADA)**. As a result, he has several dozen scientific publications in some of the most prestigious veterinary journals.

Position: Principal Investigator in the Laboratory of Comparative Dermatology at the University of Florida.



Dr. Santoro, Domenico

- Veterinarian at the University of Florida Veterinary Hospital
- Assistant Professor at the University of Florida College of Veterinary Medicine
- Doctor of Veterinary Science from the University of Illinois at Urbana-Campaign
- Residency Veterinary Residency at North Carolina State University
- Veterinary Degree at the University of Naples "Federico II"
- Member of: American College of Veterinary Microbiologists, American College of Veterinary Dermatology, European College of Veterinary Dermatology



Thanks to TECH, you will be able to learn with the best professionals in the world"

Management



Dr. Machicote Goth, Gustavo

- Clinical veterinarian at Vilanova Veterinary Clinic
- Head of the Dermatology Reference Service DERMAPET
- Member and former Secretary of the Scientific Committee of GEDA (Dermatology Group of AVEPA)
- Dermatology Certificate by the ESAVS in Vienna
- Master in Small Animal Oncology by AEVA, Miguel de Cervantes University

Professors

Dr. Basurco Pérez, Asier

- Director of Maidagan Veterinary Medical Center
- Owner and Senior Veterinarian of the Veterinary Clinic Centro Medico Veterinario Maidagan "Centro Medico Veterinario Maidagan", a Spanish clinic specialized in exotic animals
- Accredited by the Spanish Veterinary Association for Small Animals in Exotics/New Companion Animals
- Member of: Asociación de Veterinarios Españoles Especialistas en Pequeños Animales (AVEPA), Grupo de Medicina y Cirugía de Animales Exóticos (GMCAE), Association of Exotic Mammal Veterinarians (AEMV), Association of Avian Veterinarians (AAV), European Association of Avian Veterinarians (EAAV)

Dr. Quintana Díez, Germán

- Founder and CEO Veterinary Specialist at Wairua Genetics
- Coordinator of the Dermatology and Behavioral Medicine Services at the A Marosa Veterinary Center
- Veterinarian in Clinic University Hospital Rof Codina
- PhD in Veterinary Medicine from the University of Santiago de Compostela
- Degree in Veterinary Medicine from the University of Santiago de Compostela
- Master's Degree in Small and Exotic Animals from University of Santiago de Compostela
- Master in Clinical Ethology and Animal Welfare, Universidad Complutense of Madrid, Spain
- Member of ESVD, ESVCE y AVEPA

Dr. Sanmiguel Poveda, David

- ♦ Responsible for the Veterinary Dermatology Service at Fénix Veterinary Hospital
- ♦ Owner and Veterinary Director of the Carreres Veterinary Clinic
- ♦ Responsible for the Veterinary Dermatology Service at Vetland Veterinary Clinics in Alicante and Torrevieja
- ♦ Technical Trainer at CIM Training
- ♦ Responsible for the Dermatology Service of the Veterinary Clinic Hospital of the Faculty of Veterinary Medicine of the University of Murcia
- ♦ Degree in Veterinary Medicine from the University of Murcia
- ♦ Specialist in Veterinary Dermatology
- ♦ Director and speaker of the course "Keys for success in the dermatology practice"
- ♦ Member of the AVEPA, GEDA, ESVD, AEVA, GGA, AEVET

Dr. Verde Arribas, Maite

- ♦ Head of the Dermatology Service at the Veterinary Hospital of the University of Zaragoza
- ♦ Professor of Animal Medicine and Surgery in the Department of Animal Pathology at the same University
- ♦ Vice-Dean in charge of Companion Animal Clinical Services and Dean of the Faculty of Zaragoza
- ♦ Member of the expert group of the European Association of Establishments for Veterinary Education (EAEVE)
- ♦ Director of the Clinical Veterinary Hospital of the University of Zaragoza
- ♦ Coordinator of the European Erasmus Exchange Program between the Faculty of Veterinary Medicine of Zaragoza and the Faculties of Veterinary Medicine of Ghent, Messina and Thessaloniki

Dr. Navarro Combalía, Laura

- ♦ Responsible for the Nephrology and Urology Service at the Veterinary Hospital University of Zaragoza
- ♦ Professor of the Department of Animal Pathology at the University of Zaragoza
- ♦ Journal of Veterinary Diagnostic Investigation Scientific Article Reviewer
- ♦ Founder, Owner and Veterinary Dermatology Specialist of Augusta Veterinary Clinic
- ♦ D. Cum Laude in Veterinary General Medical and Nutritional
- ♦ from the University of Zaragoza
- ♦ Degree in Veterinary from the University of Zaragoza
- ♦ AVEPA accreditation in Dermatology
- ♦ Member of GEDA in AVEPA

Dr. Sancho Forrellad, Pedro Javier

- ♦ Owner and Director of the Clinica Veterinaria Dres. Sancho
- ♦ Head of the Veterinary Dermatology Service in DERMASANTBOI
- ♦ Professor of Dermatology Refresher Course at the Madrid Veterinary Association
- ♦ Degree in Veterinary from the University of Zaragoza
- ♦ AVEPA accreditation in Dermatology
- ♦ Member of: ESVD, AVEPA, GEDA

Dr. Saló Mur, Eduard

- ♦ Veterinary Technical Director at MiVet Veterinary Clinic
- ♦ Veterinary Director at Gran Via Veterinary Clinic in Barcelona
- ♦ Veterinary Director at the veterinary center of the University of Barcelona
- ♦ Veterinary Director at Luera Veterinary Hospital in Barcelona
- ♦ Associate Professor at the Autonomous University of Barcelona, Subject Dermatology of Small Animals
- ♦ Responsible and Lecturer of the continuing education programs in Dermatology of AVEPA
- ♦ Degree in Veterinary Medicine and Surgery from the University of Zaragoza
- ♦ Specialist in Veterinary Dermatology by the UAB
- ♦ Accredited in Veterinary Dermatology by AVEPA

Dr. Cózar Fernández, Alicia Isabel

- ♦ Corporate Technical Manager of Dermatology at CEVA Animal Health
- ♦ Technical Director of MiVet Clinics
- ♦ Founder of Fuente del Moral Veterinary Clinic
- ♦ Founding partner of the San Antón Veterinary Center
- ♦ Responsible for Dermatology Training at AEVA
- ♦ Independent veterinarian in Denmark
- ♦ Degree in Veterinary Medicine from the Complutense University of Madrid
- ♦ Specialization in Dermatology by ESAVS
- ♦ Diploma in Cytology from the Complutense University of Madrid
- ♦ Certificate in Feline Medicine by ISPVS





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TECH has made a rigorous selection of the teaching staff of this program, in order to offer you the most advanced and high quality program in the academic panorama”

06

Educational Plan

The syllabus of this Hybrid Master's Degree has been developed by experts, who seek from the outset to offer the latest developments in the field of Small Animal Dermatology. Thus, the professional will have video summaries, videos in detail, essential readings with which to deepen in the main conditions and diagnostic techniques. In addition, once the theoretical phase is finished, they will carry out a practical stay, which will allow them to check, in situ, the most effective treatments and procedures used in a leading veterinary clinical center.



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TECH offers you the most complete program in Veterinary Dermatology with the opportunity to deal with practical cases thanks to this Hybrid Master's Degree"

Module 1. The Skin as an Organ Characteristics and Diagnostic Approach

- 1.1. Structure and Function of the Skin
 - 1.1.1. Epidermis
 - 1.1.2. Dermis
 - 1.1.3. Cutaneous Appendages
 - 1.1.4. Hypodermis
 - 1.1.5. Vascularization and Innervation
- 1.2. Dermatological Consultation
 - 1.2.1. Material for Sample Collection
 - 1.2.2. Material for Clinical Examination
 - 1.2.3. Material for Complementary Tests
- 1.3. Relationship with the Owner
 - 1.3.1. Objectives
 - 1.3.2. Personalized Care
 - 1.3.3. Allocation of Sufficient Time
- 1.4. Diagnostic Protocol
 - 1.4.1. Dermatological Record
 - 1.4.2. General Medical Records
 - 1.4.3. Dermatological Medical Records
- 1.5. General and Dermatological Examination
 - 1.5.1. Primary Skin Lesions
 - 1.5.2. Secondary Skin Lesions
 - 1.5.3. Clinical Patterns
- 1.6. Differential Diagnoses
 - 1.6.1. Most Common Dermatitis
 - 1.6.2. Least Common Dermatitis
- 1.7. Complementary Diagnostic Tests
 - 1.7.1. Skin Scraping
 - 1.7.2. Trichogram
 - 1.7.3. Hair Brushing
 - 1.7.4. Adhesive Tape
 - 1.7.5. Imprint
 - 1.7.6. Cultivation Methods
 - 1.7.7. Skin biopsy:

- 1.8. Skin Cytology
 - 1.8.1. Sample Collection
 - 1.8.2. Processing and Staining
 - 1.8.3. Interpretation
- 1.9. Cutaneous histopathology
 - 1.9.1. Inflammatory Patterns
 - 1.9.2. Atrophic Patterns
 - 1.9.3. Neoplasm Patterns
- 1.10. Treatments. Overview
 - 1.10.1. Topical:
 - 1.10.1.1. Shampoo
 - 1.10.1.2. Solution
 - 1.10.1.3. Foams
 - 1.10.1.4. Wipes
 - 1.10.2. Systemic
 - 1.10.2.1. Oral
 - 1.10.2.2. Parenteral Route

Module 2. Cutaneous Dysbiosis or Alterations of the Microbiome Bacteria and Fungi

- 2.1. Bacterial Dysbiosis
 - 2.1.1. Surface Pyodermas
 - 2.1.2. Superficial Pyodermas
 - 2.1.3. Deep Pyodermas
 - 2.1.3.1. Cytological Differences of the Different Pyodermas
 - 2.1.3.2. Localized Deep Pyodermas
 - 2.1.3.3. Deep Pyoderma in German Shepherds
 - 2.1.4. Antibiotic Therapy
 - 2.1.4.1. Antibigram Reading
 - 2.1.4.2. MRS Bacterial Strains Diagnostic and Therapeutic Strategies
- 2.2. Rare Bacteria Mycobacteria
 - 2.2.1. Mycobacterium tuberculosis
 - 2.2.2. Mycobacterium Lepraemurium
 - 2.2.3. Saprophytic Mycobacteriosis in Immunocompetent Hosts
 - 2.2.4. Mycobacteriosis in Immunodeficient Hosts

- 2.3. Folliculitis Complex Furunculosis-Cellulitis
 - 2.3.1. Pathogenesis and Clinical Characteristics
 - 2.3.2. Types of Folliculitis-Furunculosis-Cellulitis
- 2.4. Subcutaneous Abscesses
 - 2.4.1. Subcutaneous Abscesses in Dogs
 - 2.4.2. Subcutaneous Abscesses in Cats
- 2.5. Various Bacterial Infections
 - 2.5.1. Necrotizing Fasciitis
 - 2.5.2. Dermatophilosis
 - 2.5.3. Filamentous Bacteria
- 2.6. Superficial Mycotic Dysbiosis
 - 2.6.1. Dermatophytosis
 - 2.6.1.1. DTM Cultivation Characteristics of the Most Common Dermatophytes
 - 2.6.2. Yeast Dermatitis
- 2.7. Subcutaneous Mycoses, Systemic Mycoses and Other Mycoses
 - 2.7.1. Subcutaneous Mycoses Sporotrichosis
 - 2.7.2. Subcutaneous Mycoses Mycetomas and Other Subcutaneous Mycoses
 - 2.7.3. Systemic Mycoses Cryptococcosis, Blastomycosis, Coccidiomycosis, Histoplasmosis
 - 2.7.4. Candidiasis, Aspergillosis, Other Mycoses
- 2.8. Antifungal Treatments
 - 2.8.1. Topical Treatments
 - 2.8.2. Systemic Treatment
- 2.9. Dermatoses due to Algae, Rickettsia and Viruses
 - 2.9.1. Diseases caused by Algae
 - 2.9.2. Rickettsial Dermatoses Ehrlichiosis Mycoplasmosis
 - 2.9.3. Dermatoses caused by Virus
 - 2.9.3.1. Dermatoses caused by Virus in Cats
 - 2.9.3.2. Dermatoses caused by Virus in Dogs
- 2.10. Dermatitis due to Protozoa Leishmaniasis
 - 2.10.1. Typical Cutaneous Manifestations of Leishmaniasis
 - 2.10.2. Treatment Suggestions in Leishmaniasis

Module 3. Dermatitis of Parasitic Origin

- 3.1. Introduction
- 3.2. Parasitosis by Insects
 - 3.2.1. Fleas
 - 3.2.2. Lice
 - 3.2.3. Mosquitoes
 - 3.2.4. Hymenoptera
 - 3.2.5. Myiasis and Fly Dermatitis
- 3.3. Parasitosis by Arachnids
 - 3.3.1. Ticks
 - 3.3.2. Other Rare Arachnids
- 3.4. Parasitosis by Superficial Mites
 - 3.4.1. Cheyletiella
 - 3.4.2. Neothrombicles
 - 3.4.3. Otodectes cynotis
- 3.5. Parasitosis by Plough/Profundus Mites
 - 3.5.1. Sarcoptes Scabiei
 - 3.5.2. Notoedres Cati
- 3.6. Parasitosis by Follicular Mites I
 - 3.6.1. Demodex
 - 3.6.1.1. History
 - 3.6.1.2. Biological/Habitat Cycle
 - 3.6.1.3. Species of Demodex
 - 3.6.1.4. Immunology and Pathogenesis of Demodicosis
 - 3.6.2. Canine Demodicosis
 - 3.6.2.1. Clinical Picture. Clinical Polymorphism
 - 3.6.2.2. Juvenile Canine Demodicosis vs. Adult
 - 3.6.2.3. Treatment and Prevention
- 3.7. Parasitosis by Follicular Mites II
 - 3.7.1. Feline Demodicosis
 - 3.7.2. Straelensia Cynotis

- 3.8. Parasitosis by Helminth
 - 3.8.1. Ancylostoma
 - 3.8.2. Uncinaria
 - 3.8.3. Pelodera
- 3.9. Caterpillar Larvae Processionary
 - 3.9.1. Other Rare Ectoparasites
- 3.10. External Antiparasitic Agents Key Aspects Pharmacokinetics
 - 3.10.1. Presentations
 - 3.10.2. Topical Action
 - 3.10.3. Systemic Action

Module 4. Allergic Dermatoses

- 4.1. Itching as a Basic Sign of Allergy
 - 4.1.1. Etiopathogenesis of Pruritus
 - 4.1.2. Differential Diagnosis of Pruritis
- 4.2. Canine Atopic Dermatitis (CAD)
 - 4.2.1. Dermatitis Similar to Atopy (Intrinsic)
- 4.3. Food Allergy
 - 4.3.1. Etiopathogenesis
 - 4.3.2. Clinical Aspects
- 4.4. Allergic Flea Bite Dermatitis (AFBD)
 - 4.4.1. Allergic Reactions to Other Insects (Mosquitoes, Hymenoptera)
- 4.5. Contact Dermatitis
 - 4.5.1. Etiopathogenesis
 - 4.5.2. Clinical Aspects
- 4.6. Eosinophilic Dermatoses in the Dog
 - 4.6.1. Etiopathogenesis
 - 4.6.2. Clinical Aspects
- 4.7. Allergy in Cats
 - 4.7.1. Clinical Manifestations Associated with Pruritis in Cats
 - 4.7.2. Allergic Flea Bite Dermatitis (AFBD)
 - 4.7.3. Food Allergy

- 4.7.4. Feline Hypersensitivity Dermatitis Not to Fleas, Not to Food (Feline Atopic Syndrome)
- 4.7.5. Relationship Between Stress and Allergic Dermatoses in Cats
- 4.8. Clinical Diagnostic Protocol for Allergy
 - 4.8.1. Clinical Aspects of Diagnostic Usefulness
 - 4.8.2. Differential Diagnosis
 - 4.8.3. Diagnostic Approach to an Allergic Patient Step by Step
 - 4.8.4. Test and Diagnostic Trials
- 4.9. Treatment Strategies in the Allergic Animal
 - 4.9.1. Allergen Avoidance
 - 4.9.2. Hyposensitizing Immunotherapy
 - 4.9.3. Antipruriginous Therapy
 - 4.9.4. Control of Infections/ Overgrowths
 - 4.9.5. Moisturizing/Emollient Therapy
- 4.10. Dermocosmetics in the Allergic Patient
 - 4.10.1. Active Ingredients and Galenic Formulations
 - 4.10.2. Moisturizing/Emollient Topical Therapy
 - 4.10.3. Antipruriginous Topical Therapy
 - 4.10.4. Shampoo Therapy

Module 5. Immune-Mediated and Autoimmune Dermatoses

- 5.1. Aetiopathogenesis of Autoimmune Diseases
 - 5.1.1. Types of Immunity
 - 5.1.2. Development Mechanisms of Autoimmune Diseases
- 5.2. Diagnosis of Autoimmune and Immune-Mediated Diseases
 - 5.2.1. Laboratory Methods
 - 5.2.2. Histopathological Findings
- 5.3. Therapy of Autoimmune and Immune-Mediated Diseases
 - 5.3.1. Phases of Treatment for Immune-Mediated and Autoimmune Diseases
 - 5.3.1.1. Induction Phase
 - 5.3.1.2. Transition Phase
 - 5.3.1.3. Maintenance Phase
 - 5.3.1.4. Extinction Phase

- 5.3.2. Immunosuppressive Drugs
 - 5.3.2.1. Azathioprine
 - 5.3.2.2. Chlorambucil
 - 5.2.2.3. Mycophenolate Mofetil
 - 5.2.2.4. Cyclophosphamide
 - 5.2.2.5. Oclacitinib
 - 5.2.2.6. Tetracycline-Nicotinamide/Doxycycline
 - 5.2.2.7. Glucocorticoids
- 5.4. Autoimmune Diseases
 - 5.4.1. Pemphigus Complex
 - 5.4.1.1. Etiopathogenesis
 - 5.4.1.2. Pemphigus Complex
 - 5.4.1.2.1. Pemphigus Foliaceus
 - 5.4.1.2.2. Pemphigus Erythematosus
 - 5.4.1.2.3. Pemphigus vulgaris
 - 5.4.2. Lupus Erythematosus
 - 5.4.2.1. Systemic Lupus Erythematosus
 - 5.4.2.1.1. Subacute Cutaneous Lupus Erythematosus Erythematosus (SCLEE)
 - 5.4.2.1.1.1. Vesicular Cutaneous Lupus Erythematosus (VCLE)
 - 5.4.2.1.2. Chronic Cutaneous Lupus Erythematosus (CCLE)
 - 5.4.2.1.2.1. Discoid Lupus Erythematosus
 - 5.4.2.1.2.1.1. Lupus Erythematosus Discoid Lupus Erythematosus with Facial Distribution (FLED)
 - 5.4.2.1.2.1.2. Discoid Lupus Erythematosus with General Distribution (LEGD)
 - 5.4.2.1.2.2. Mucocutaneous Lupus Erythematosus (MCLE)
 - 5.4.2.1.2.3. Exfoliative Cutaneous Lupus Erythematosus (ECLE)
 - 5.4.2.2. Systemic Lupus Erythematosus
 - 5.4.3. Subepidermal Bullous or Blistering Diseases
 - 5.4.3.1. Mucous Membrane Pemphigoid (MMP)
 - 5.4.3.2. Bullous Pemphigoid (BP)
 - 5.4.3.3. Acquired Epidermolysis Bullosa (AEB)
 - 5.4.4. Pigmented Autoimmune Diseases
 - 5.4.4.1. Vitiligo
 - 5.4.4.2. Uveodermatologic Syndrome
- 5.5. Immune-Mediated Diseases I
 - 5.5.1. Adverse Reactions to Medications
 - 5.5.1.1. Etiopathogenesis
 - 5.5.1.2. Clinical Findings
 - 5.5.1.3. Diagnosis
 - 5.5.1.4. Treatment
- 5.6. Immune-Mediated Diseases II
 - 5.6.1. Erythema Multiform
 - 5.6.1.1. Etiopathogenesis
 - 5.6.1.2. Clinical Findings
 - 5.6.1.3. Diagnosis
 - 5.6.1.4. Treatment
- 5.7. Immune-Mediated Diseases III
 - 5.7.1. Steven Johnson Syndrome
 - 5.7.1.1. Etiopathogenesis
 - 5.7.1.2. Clinical Findings
 - 5.7.1.3. Diagnosis
 - 5.7.1.4. Treatment
 - 5.7.2. Toxic Epidermal Necrolysis (TEN)
 - 5.7.2.1. Etiopathogenesis
 - 5.7.2.2. Clinical Findings
 - 5.7.2.3. Diagnosis
 - 5.7.2.4. Treatment
- 5.8. Immune-Mediated Diseases IV
 - 5.8.1. Juvenile Canine Cellulitis
 - 5.8.1.1. Etiopathogenesis
 - 5.8.1.2. Clinical Findings
 - 5.8.1.3. Diagnosis
 - 5.8.1.4. Treatment

- 5.8.2. Feline Plasma Cell Pododermatitis
 - 5.8.2.1. Etiopathogenesis
 - 5.8.2.2. Clinical Findings
 - 5.8.2.3. Diagnosis
 - 5.8.2.4. Treatment
- 5.9. Immune-Mediated Diseases V
 - 5.9.1. Immune-Mediated Canine Fistulas
 - 5.9.1.1. Canine Perianal Fistulas
 - 5.9.1.1.1. Etiopathogenesis
 - 5.9.1.1.2. Clinical Findings
 - 5.9.1.1.3. Diagnosis
 - 5.9.1.1.4. Treatment
 - 5.9.1.2. Canine Tassal Fistulas
 - 5.9.1.2.1. Etiopathogenesis
 - 5.9.1.2.2. Clinical Findings
 - 5.9.1.2.3. Diagnosis
 - 5.9.1.2.4. Treatment
- 5.10. Immune-Mediated Diseases VI
 - 5.10.1. Vascular Diseases
 - 5.10.1.1. Etiopathogenesis
 - 5.10.1.2. Clinical Presentations
 - 5.10.1.2.1. Proliferative Thrombovascular Necrosis of the Ear
 - 5.10.1.2.2. Post-vaccinal Ischemia Dermatopathy
 - 5.10.1.2.3. Proliferative Nasal Arteritis
 - 5.10.1.2.4. Familial Vasculopathy
 - 5.10.1.3. Diagnosis
 - 5.10.1.4. Treatment
 - 5.10.2. Dermatomyositis
 - 5.10.2.1. Etiopathogenesis
 - 5.10.2.2. Clinical Findings
 - 5.10.2.3. Diagnosis
 - 5.10.2.4. Treatment

Module 6. Dermatoses of Endocrine, Metabolic, Nutritional and Congenital Origin: Non-inflammatory Alopecia

- 6.1. Canine Hypothyroidism
 - 6.1.1. Pathogenesis
 - 6.1.2. Clinical Aspects
 - 6.1.3. Diagnosis
 - 6.1.4. Treatment
- 6.2. Feline Hyperthyroidism and Hypothyroidism
 - 6.2.1. Pathogenesis
 - 6.2.2. Clinical Aspects
 - 6.2.3. Diagnosis
 - 6.2.4. Treatment
- 6.3. Canine Hyperadrenocorticism
 - 6.3.1. Pathogenesis
 - 6.3.2. Clinical Aspects
 - 6.3.3. Diagnosis
 - 6.3.4. Treatment
- 6.4. Hyperadrenocorticism and Diabetes Mellitus in Cats
 - 6.4.1. Pathogenesis
 - 6.4.2. Clinical Aspects
 - 6.4.3. Diagnosis
 - 6.4.4. Treatment
- 6.5. Dermatoses due to Canine Gonadal Anomalies
 - 6.5.1. Hyperestrogenism in Females
 - 6.5.1.1. Pathogenesis
 - 6.5.1.2. Clinical Aspects
 - 6.5.1.3. Diagnosis
 - 6.5.2. Hyperestrogenism in Males
 - 6.5.2.1. Pathogenesis
 - 6.5.2.2. Clinical Aspects
 - 6.5.2.3. Diagnosis
 - 6.5.2.4. Treatment

- 6.6. Alopecia X and Cyclical Alopecia
 - 6.6.1. Pathogenesis
 - 6.6.2. Clinical Aspects
 - 6.6.3. Diagnosis
 - 6.6.4. Treatment
- 6.7. Alopecia of Hereditary Congenital Nature
 - 6.7.1. Follicular Dystrophies
 - 6.7.2. Linked to Hair Color
 - 6.7.2.1. Pathogenesis
 - 6.7.2.2. Clinical Characteristics
 - 6.7.3. Not Linked to Hair Color
 - 6.7.3.1. Pathogenesis
 - 6.7.3.2. Clinical Characteristics
 - 6.7.3.3. Diagnosis
 - 6.7.3.4. Treatment
 - 6.7.4. Alopecia Patterns
 - 6.7.4.1. Pathogenesis
 - 6.7.4.2. Breeds and Patterns
 - 6.7.4.3. Differential Diagnosis
 - 6.7.4.4. Treatment
- 6.8. Alopecia and Non-Pruritic Feline Scaly Conditions
 - 6.8.1. Paraneoplastic Alopecia
 - 6.8.1.1. Pathogenesis
 - 6.8.1.2. Clinical Aspects
 - 6.8.1.3. Diagnosis
 - 6.8.1.4. Treatment
 - 6.8.2. Exfoliative Dermatitis Linked , or Not , to Thymoma
 - 6.8.2.1. Pathogenesis
 - 6.8.2.2. Clinical Aspects
 - 6.8.2.3. Diagnosis
 - 6.8.2.4. Treatment
- 6.9. Canine Metabolic Dermatoses
 - 6.9.1. Dermatoses Which Responds to Zinc
 - 6.9.1.1. Pathogenesis
 - 6.9.1.2. Clinical Aspects
 - 6.9.1.3. Diagnosis
 - 6.9.1.4. Treatment
 - 6.9.2. Hepatocutaneous Syndrome, Necrolytic Erythema Migrans
 - 6.9.2.1. Pathogenesis
 - 6.9.2.2. Clinical Aspects
 - 6.9.2.3. Diagnosis
 - 6.9.2.4. Treatment
- 6.10. Non-inflammatory Alopecia
 - 6.10.1. Defluxion-Effluvium in Anagen and in Telogen
 - 6.10.1.1. Pathogenesis
 - 6.10.1.2. Clinical Aspects
 - 6.10.1.3. Diagnosis
 - 6.10.1.4. Treatment
 - 6.10.1.5. Alopecia Traction
 - 6.10.1.6. Pathogenesis
 - 6.10.1.7. Clinical Aspects
 - 6.10.1.8. Diagnosis
 - 6.10.1.9. Treatment
 - 6.10.1.10. Alopecia Due to Reaction to Inoculation/Application of Drugs
 - 6.10.1.10.1. Pathogenesis
 - 6.10.1.10.2. Clinical Aspects
 - 6.10.1.10.3. Diagnosis
 - 6.10.1.10.4. Treatment

Module 7. Dermatoses due to Key Aspects PharmacokineticsKeratinization Disorders and Psychogenic Dermatoses

- 7.1. Keratinization and Sebum Secretion Disorders
 - 7.1.1. Canine and Feline Primary Seborrhea
 - 7.1.2. Idiopathic Facial Dermatitis of Persian Cats
 - 7.1.3. Facial Ulcerative Dermatitis of the Bengal Cat
 - 7.1.4. Ichthyosis
 - 7.1.5. Schnauzer Comedone Syndrome
- 7.2. Nasal and Digital Hyperkeratosis of the Dog
 - 7.2.1. Age Related Causes
 - 7.2.2. Secondary Causes from Other Diseases
- 7.3. Hyperplasia of the Canine Tail Gland
 - 7.3.1. Hormonal Influence
 - 7.3.2. Topical and Systemic Therapy
- 7.4. Acne
 - 7.4.1. Canine Acne
 - 7.4.2. Feline Acne
- 7.5. Feline Stallion Tail
 - 7.5.1. Treatment Management
- 7.6. Treatment of Keratinization Disorders
 - 7.6.1. Specific Shampoo Therapy
 - 7.6.2. Systemic Treatment Retinoids Vitamin A
- 7.7. Pigmentation Abnormalities
 - 7.7.1. Genetic Hyperpigmentation
 - 7.7.1.1. Lentigo
 - 7.7.1.2. Urticaria Pigmentosa
 - 7.7.1.3. Post Inflammatory Hyperpigmentation
 - 7.7.1.4. Hormonal Alterations Due to Drugs
 - 7.7.2. Hypopigmentation
 - 7.7.2.1. Albinism
 - 7.7.2.2. Vitiligo
 - 7.7.2.3. Post Inflammatory Hyperpigmentation
 - 7.7.2.4. Metabolic - Hormonal - Neoplastic Hypopigmentation

- 7.8. Aetiopathogenesis, Diagnosis and Treatment of Behavioral Disorders
 - 7.8.1. Etiopathogenesis of Behavioral Disorders
 - 7.8.2. Diagnosis of Behavioral Disorders
 - 7.8.3. Medical Treatment for Behavioral Disorders
 - 7.8.4. Non-Pharmacological Treatment for Behavioral Disorders
- 7.9. Dermatoses of Ethological Origin I
 - 7.9.1. Canine Tail Chasing
 - 7.9.2. (Flank Sucking)
 - 7.9.3. Feline Self-Induced Alopecia/Feline Head and Neck Dermatitis
- 7.10. Dermatoses of Ethological Origin II
 - 7.10.1. Canine Acral Lick Dermatitis
 - 7.10.2. Others

Module 8. Cutaneous Neoplasms and Paraneoplasms

- 8.1. Diagnostic Methods for Cutaneous Neoplasms
 - 8.1.1. Cytology and its Characteristics
 - 8.1.2. Macroscopic Features of Malignancy
 - 8.1.3. Microscopic Malignancy Indices Mitotic Markers and Index
 - 8.1.4. Principles of Oncologic Treatment
- 8.2. Hamartomas/Nevus and Cysts
 - 8.2.1. Different Types According to the Origin
- 8.3. Epithelial Tumors
 - 8.3.1. General Squamous Cell Carcinoma
 - 8.3.1.1. Squamous Cell Carcinoma in Situ
 - 8.3.1.2. Subungual Squamous Cell Carcinoma
 - 8.3.2. Adenoma/Adenocarcinoma of the Hepatoids
 - 8.3.3. Adenomas/Adenocarcinomas of Adnexal Glands
- 8.4. Mastocytoma
 - 8.4.1. Cutaneous and Subcutaneous Mastocytomas in the Canine Species
 - 8.4.2. Cutaneous and Subcutaneous Mastocytomas in the Felines Species
 - 8.4.3. Establish Degrees and Stages
 - 8.4.4. Mitotic Index and Other Markers of Aggressiveness
 - 8.4.5. New Intratumoral Therapies

- 8.5. Mesenchymal Soft Tissue Tumors
 - 8.5.1. Feline SAPI
 - 8.5.2. Soft Tissue Sarcomas General Aspects
 - 8.5.3. Benign Mesenchymal Tumors
- 8.6. Melanoma
 - 8.6.1. Difficulties in their Classification According to Lineage
 - 8.6.2. Melanomas According to Region
 - 8.6.3. Melanoma Amelanotic
- 8.7. Hair Follicle Tumors
 - 8.7.1. Tricoepithelioma
 - 8.7.2. Troblastoma
 - 8.7.3. Pilomatricomas
- 8.8. Cutaneous Lymphoma
 - 8.8.1. Cutaneous Epitheliotropic T-cell Lymphoma
 - 8.8.2. Non-epitheliotropic Cutaneous Lymphoma
- 8.9. Cutaneous Histiocytic Tumors
 - 8.9.1. Histiocytoma
 - 8.9.2. Various Histiocytosis
- 8.10. Transmissible Venereal Tumor TVT
 - 8.10.1. Different Manifestations
 - 8.10.2. Chemotherapy Treatment

Module 9. Conditions of the External Ear, Eyelids, Nails, Anal Area, Nasal Bridge and Nose

- 9.1. Otitis Externa Definition and Triggering, Complicating and Perpetuating Causes
 - 9.1.1. Primary Causes
 - 9.1.2. Secondary Causes
 - 9.1.3. Perpetuating Factors
- 9.2. Otoscopy and Videotoscopy Diagnostic Techniques
 - 9.2.1. Management of the Traditional Otoscope
 - 9.2.2. Videotoscopy as an Advanced Surgical Action
- 9.3. Cytological Diagnosis of Otitis
 - 9.3.1. Recognition of the Possible Etiological Causes According to the Macroscopic Aspect of the Secretion

- 9.3.2. Importance of Cytological Analysis for Therapeutic Indication
- 9.3.3. Sampling, Culture and Antibigram
- 9.4. Treatment of Otitis
 - 9.4.1. Importance of Otic Cleaning Prior to Specific Treatment
 - 9.4.2. Combined Topical Treatments
 - 9.4.3. Conditions of the Ruptured Tympanic Membrane
- 9.5. Onixis Descriptive Terminology of Nail Disorders
 - 9.5.1. Lupoid Onychodystrophy
 - 9.5.2. Onyx from Different Origins
 - 9.5.2.1. Bacterial
 - 9.5.2.2. Fúngicas
 - 9.5.2.3. Parasitic Onychodystrophies
 - 9.5.3. Treatment of Nail Pathologies
 - 9.5.4. SCC of the Subungual Bed
- 9.6. Pathologies of Canine and Feline Pads
 - 9.6.1. Hyperkeratosis in Canine Pads
 - 9.6.2. Feline Plasmacytic Pododermatitis
 - 9.6.3. Vasculitis Conditions
- 9.7. Anal Sac Pathology
 - 9.7.1. Impaction and Fistulization of Anal Sacs
 - 9.7.2. Direct and Indirect Treatment of the Impactation of Anal Sacs
 - 9.7.3. Adenocarcinoma of the Anal Sacs
- 9.8. Palpebral Pathologies
 - 9.8.1. Blepharitis of Different Origins
 - 9.8.2. Treatments of Eyelids with Blepharitis
 - 9.8.3. Neoplasms
- 9.9. Differential Diagnoses in Canine Nasal Bridge Dermatoses
 - 9.9.1. Infectious Causes
 - 9.9.2. Autoimmune Causes
 - 9.9.3. Alopecia Due to Dysplasia
- 9.10. Differential Diagnoses of Dermatoses of the Nose
 - 9.10.1. Mucocutaneous Infections
 - 9.10.2. Autoimmune Conditions
 - 9.10.3. Neoplasms

Module 10. Dermatology of Exotic Animals

- 10.1. Dermatological Examination in New Companion Animals and in Uncommon Animal Species
 - 10.1.1. Dermatological Exam of New Companion Animals
 - 10.1.2. Dermatological Exam of Uncommon Animal Species
- 10.2. Features and Handling of New Companion Animals and Uncommon Animal Species
 - 10.2.1. Features and handling of New Companion Animals
 - 10.2.2. Features and Handling of Uncommon Animal Species
- 10.3. Complementary Examinations of New Companion Animals and Uncommon Animal Species
 - 10.3.1. Complementary Exam of New Companion Animals
 - 10.3.2. Complementary Exam of Uncommon Animal Species
- 10.4. Ferret Dermatology
 - 10.4.1. Anatomical Particularities
 - 10.4.2. Infectious Dermatitis
 - 10.4.3. Fúngicas
 - 10.4.4. Parasitic
 - 10.4.5. Viral
 - 10.4.6. Neoplasms
 - 10.4.7. Endocrine
 - 10.4.8. Therapies Specific to the Species
- 10.5. Rabbit Dermatology
 - 10.5.1. Anatomical Particularities
 - 10.5.2. Infectious Dermatitis
 - 10.5.3. Fúngicas
 - 10.5.4. Parasitic
 - 10.5.5. Viral
 - 10.5.6. Neoplasms
 - 10.5.7. Environmental-Behavioral
 - 10.5.8. Therapies Specific to the Species
- 10.6. Rodent Dermatology
 - 10.6.1. Anatomical Particularities
 - 10.6.2. Infectious Dermatitis
 - 10.6.3. Fúngicas
 - 10.6.4. Parasitic
 - 10.6.5. Viral
 - 10.6.6. Neoplasms
 - 10.6.7. Endocrine
 - 10.6.8. Behavioral-Environmental
 - 10.6.9. Therapies Specific to the Species
- 10.7. Bird Dermatology
 - 10.7.1. Skin Structure and Plumage
 - 10.7.2. Viral Dermatitis
 - 10.7.3. Parasitic Dermatitis
 - 10.7.4. Fungal Dermatitis
 - 10.7.5. Bacterial Dermatitis
 - 10.7.6. Nutritional Disorders
 - 10.7.7. Neoplasms
 - 10.7.8. Allergies
 - 10.7.9. Conditions of the Feathers and Nails
 - 10.7.10. Treatment in Birds
- 10.8. Reptile Dermatology
 - 10.8.1. Features of Skin and Clinical Examination
 - 10.8.2. Dermatitis of Traumatic Origin
 - 10.8.3. Bacterial Dermatitis
 - 10.8.4. Fungal Dermatitis
 - 10.8.5. Viral Dermatitis
 - 10.8.6. Ectoparasites
 - 10.8.7. Neoplasms
 - 10.8.8. Iatrogenic Dermatitis
 - 10.8.9. Therapeutic Particularities



- 10.9. Amphibian Dermatology
 - 10.9.1. Skin Characteristics. Clinical Examination
 - 10.9.2. Viral Dermatoses
 - 10.9.3. Bacterial Dermatoses
 - 10.9.4. Parasitosis
 - 10.9.5. Mycosis
 - 10.9.6. Neoplasms
- 10.10. Dermatology of Ornamental Fish
 - 10.10.1. Skin Structure
 - 10.10.2. Various Dermatoses
 - 10.10.3. Parasitosis
 - 10.10.4. Neoplasms



This program provides you with everything you need to know about new developments in dermatological treatments applied to exotic animals”

07

Clinical Internship

After passing the online teaching period, the program includes a practical training period in a reference veterinary clinic. The professional will have at his disposal the support of a tutor who will accompany him during the whole process, both in the preparation and in the development of the clinical practices.





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TECH offers you a unique opportunity to update your knowledge, in a first level center and applying the latest techniques in Dermatology applied to Small Animals"

The internship of this program in Small Animal Dermatology consists of a practical stay of 3 weeks in a reference veterinary clinic. It is therefore made up of a practical phase with an attending specialist veterinarian. During this period, the professional will be able to see real cases alongside a professional team of reference in the Veterinary area, applying the most innovative procedures.

In this sense, the activities performed will be aimed at perfecting the essential competencies for Veterinary care in areas and conditions that require a high level of qualification. In this way, the professional will actively participate in the performance of examinations, examinations, diagnosis and administration of treatments in small animals with dermatological problems.

TECH offers an excellent opportunity to advance in this specialty, through a unique experience and working side by side with the best in Small Animal Dermatology. This is a new way to understand and integrate the processes of animal health care and to achieve the improvement of veterinary professionals in this field.

The practical part will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other training partners that facilitate teamwork and multidisciplinary integration as transversal competences for the practice of veterinary medicine (learning to be and learning to relate to others).





The procedures described below will be the basis of the practical part of the training, and their implementation will be subject to the center’s own availability and workload, the proposed activities being the following:

Module	Practical Activity
Dermatological study and diagnosis of exotic animals	Perform complementary examinations in NAC and AEIE
	Provide support in the performance of dermatological examinations in exotic animals
	Collaborate in the study of amphibian dermatology
	Explore the dermatology of rabbits, rodents and birds
Treatment of cutaneous dysbiosis or microbiome alterations	Perform examinations for the detection of bacterial and superficial mycotic dysbiosis
	Carry out antibiotic therapy practice
	Provide support in the detection of various bacterial infections: Necrotizing fasciitis, dermatophilosis, filamentous bacteria
	Prescribe antifungal treatments
Treatment of Dermatosis of parasitic, allergic and immune-mediated and autoimmune	Collaborate in the analysis of insect parasitosis
	Assist in the detection of canine atopic dermatitis (CDD)
	Perform analysis of autoimmune diseases
	Diagnose autoimmune and immune-mediated diseases
	Contribute in the ocalization of external antiparasitic agents
Addressing cutaneous neoplasms and pseudoneoplasms	Contribute in the localization of cutaneous neoplasms
	Perform analysis of Hamartomas/nevus and cysts
	Detect tumors, epithelial tumors, soft tissue mesenchymal tumors, cutaneous histiocytic tumors, transmissible venereal tumors TVT, hair follicle tumors
	Perform Melanoma Analysis

Civil Liability Insurance

The university's main concern is to guarantee the safety of the interns, other collaborating professionals involved in the internship process at the center. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, the university commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



General Conditions for Practical Training

The general terms and conditions of the internship agreement for the program are as follows:

1. TUTORIAL: During the Internship Program, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

2. DURATION: the internship program will have a duration of three continuous weeks of practical training, distributed in 8-hour days, five days a week. The days of attendance and the schedule will be the responsibility of the center, informing the professional duly and in advance, with sufficient time in advance in order to in advance to facilitate their organization.

3. NON-ATTENDANCE: in case of no-show on the day of the beginning of the Hybrid Master's Degree, the students will lose the right to the same without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

4. CERTIFICATION: Professionals who pass the Hybrid Master's Degree will receive a certificate accrediting their stay at the center.

5. EMPLOYMENT RELATIONSHIP: the Hybrid Master's Degree shall not constitute an employment relationship of any kind.

6. PRIOR EDUCATION: Some centers may require a certificate of prior education for the Hybrid Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

7. DOES NOT INCLUDE: the Hybrid Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the students with all the necessary information to facilitate the procedures in any case.

08

Where Can I Do the Clinical Internship?

After completing and passing the evaluations of the theoretical part of this Master, TECH gives the professional the opportunity to take a practical stay in a veterinary center of reference where you will learn the latest developments in the field of Veterinary Dermatology. A unique opportunity to apply the concepts incorporated in the syllabus, in a real clinical scenario and with the accompaniment of a tutor specialized in this area.



“

Look for the veterinary center that best suits your needs from the list of proposals that TECH has for you”

Students will be able to take the practical part of this Hybrid Master's Degree in the following centers:



Clínica veterinaria Argüelles

Country	City
Spain	Madrid

Address: C. de Fernando el Católico, 78,
28015 Madrid

Comprehensive veterinary care center

Related internship programs:
-Small Animal Dermatology



Europolís Veterinaria

Country	City
Spain	Madrid

Address: Calle Dublín, 31, 28232 Las Rozas
de Madrid

Veterinary clinic specializing
in companion animals

Related internship programs:
-Small Animal Dermatology



Centro Veterinario Fuente del Moral

Country	City
Spain	Madrid

Address: Avda. de la Salud,
12, 28411 Moralzarzal

The veterinary center specializing
in the care of dogs and cats

Related internship programs:
-Veterinary Anesthesiology
-Small Animal Ultrasound



Clínica veterinaria Petclub

Country	City
Spain	Madrid

Address: Avenida Siglo XXI 12 local 12 Boadilla
del Monte, Madrid

Veterinary Clinic specializing
in Oncology, Dermatology, Traumatology, Ophthalmology
and Cardiology, among other areas.

Related internship programs:
-Small Animal Dermatology



Supervet

Country	City
Spain	Madrid

Address: Calle de Fermín Caballero, 56, 28034
posterior, Madrid

Center specialized in alternative therapies such as
homeopathy, acupuncture, physiotherapy, laser or
magnetotherapy.

Related internship programs:
- Infectious Diseases in Small Animals
- Veterinary Radiology in Small Animals



Centro Veterinario La Caleta MiVet

Country	City
Spain	Malaga

Address: Av. de Andalucía, 126, 29751 Caleta
de Vélez, Málaga

La Caleta Veterinary Center is a high level center specialized
in general and integral care.

Related internship programs:
-Small Animal Dermatology
-Veterinary Emergencies in Small Animals



Hospital Veterinario Málaga Este MiVet

Country	City
Spain	Malaga

Address: Avenida Infanta Elena, 29740 Torre
del Mar, Málaga

The only veterinary hospital in the East zone of Malaga
with 24 hours emergency attention

Related internship programs:
- Management and Administration of Veterinary Centers
-Veterinary Emergencies in Small Animals



Centro Veterinario MiVet Gran Vía

Country	City
Spain	Barcelona

Address: Gran Vía de les Corts Catalanes, 556,
08011 Barcelona

Veterinary clinic specializing
in general care and with 24 hours service

Related internship programs:
-Small Animal Dermatology



Animalia BCN MiVet

Country	City
Spain	Barcelona

Address: Carrer de la Creu Coberta,
130, Barcelona

Veterinary Hospital in Barcelona
with 24h attention 365 days a year

Related internship programs:

- Small Animal Dermatology
- Physiotherapies and Rehabilitation of Small Animals



Pharmacodynamics.

Centro Veterinario Puebla

Country City
Mexico Puebla

Address: Calzada zavaleta 115 Local 1
Santa Cruz Buenavista C.P 72154

General veterinary center
with 24-hour emergency care

Related internship programs:

- Veterinary Anesthesiology
- Veterinary Cardiology in Small Animals



Pharmacodynamics.

Happy Can Camp

Country City
Mexico Puebla

Address: Km 4.5 lateral Recya a Cholula Col.
Bella Horizonte Puebla C.P. 72170

Veterinary clinic and hotel

Related internship programs:

- Veterinary Radiology in Small Animals
- Veterinary Ophthalmology in Small Animals



Pharmacodynamics.

Hospital Veterinario Animalitos

Country City
Mexico Baja California Sur

Address: Bulevar pino pallas #244 Villas
del Encanto La Paz B.C.S C.P 23085

General veterinary center
and high specialties

Related internship programs:

- Veterinary Surgery in Small Animals
- Small Animal Dermatology



Pharmacodynamics.

Hospital Veterinario Paraíso Animal

Country City
Mexico Puebla

Address: Antiguo Camino Real a Cholula 99-B
Villas de Zabaleta C.P 72176 Heroica Puebla
de Zaragoza. Puebla México

High level Veterinary Hospital
with a wide range of services
in the different specialties

Related internship programs:

- Veterinary Surgery in Small Animals
- Veterinary Anesthesiology





Pharmacodynamics.

Meds for pets

Country City
Mexico Nuevo León

Address: Av. Venustiano Carranza 429
Centro C.P 64000

Veterinary Hospital for advanced and
comprehensive care

Related internship programs:

- Veterinary Cardiology in Small Animals
- Small Animal Ultrasound



Pharmacodynamics.

Aztekan Hospital Veterinario - Roma

Country City
Mexico Mexico City

Address: San Luis 152 Col Roma C.P CDMX

24 hours Veterinary Hospital

Related internship programs:

- Veterinary Emergencies in Small Animals
- Veterinary Cardiology in Small Animals



Pharmacodynamics.

Centro Veterinario CIMA

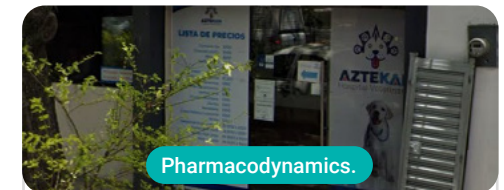
Country City
Mexico Mexico City

Address: Av. Vía Adolfo López Mateos 70,
Jardines de San Mateo, 53240 Naucalpan
de Juárez, CDMX, Méx.

Clinical pet care center

Related internship programs:

- Small Animal Internal Medicine
- Veterinary Oncology in Small Animals



Pharmacodynamics.

Aztekan Hospital Veterinario - Sur

Country City
Mexico Mexico City

Address: Circuito Estadio Azteca #298
Pedregal de Santa Ursula C.P 04600 CDMX

24 hours Veterinary Hospital

Related internship programs:

- Veterinary Emergencies in Small Animals
- Small Animal Dermatology



Aztekan Hospital Veterinario - Nápoles

Country: Mexico City

Address: Nebraska 151 Colonia Nápoles C.P. 03810 CDMX

24 hours Veterinary Hospital

Related internship programs:

- Equine Medicine and Surgery
- Veterinary Emergencies in Small Animals





Pharmacodynamics.

Veterinaria SUMMA

Country	City
Argentina	Cordoba

Address: José Roque Funes 1660 cerro de las rosas - Córdoba Capital

High complexity veterinary center and product distribution

Related internship programs:

- Management and Administration of Veterinary Centers
- Veterinary Surgery in Small Animals



You will combine theory and professional practice through a demanding and rewarding educational approach"

09 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



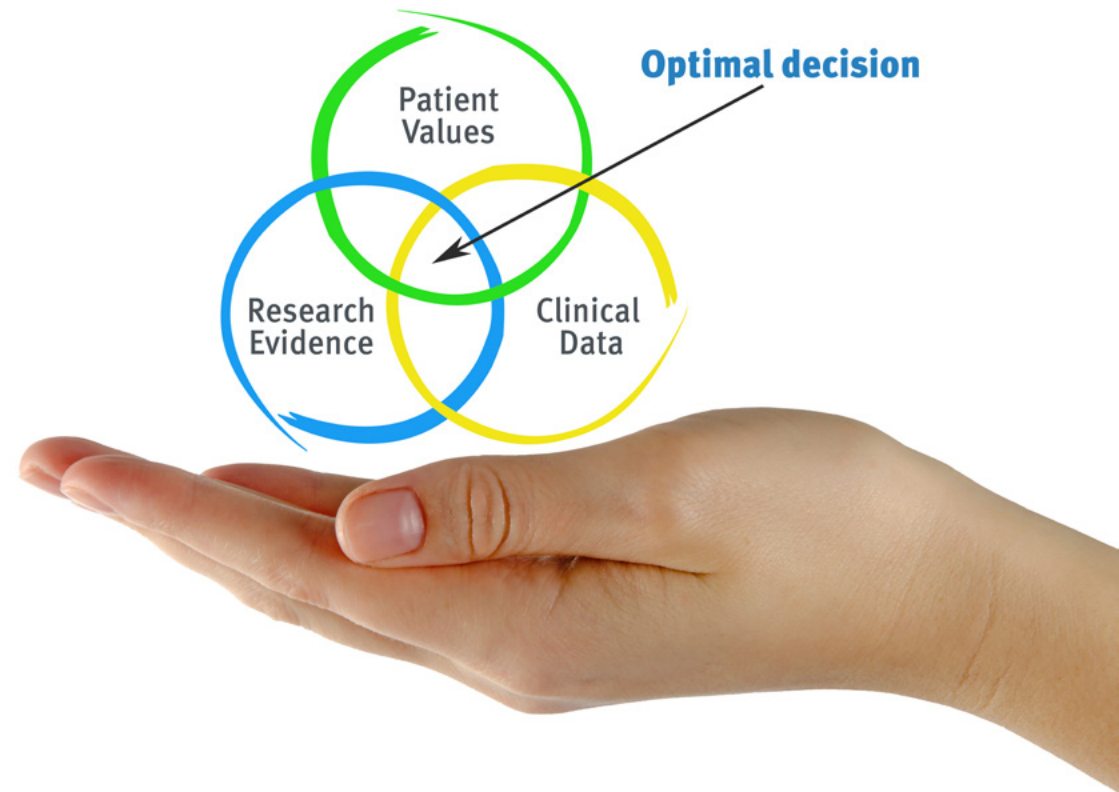
“

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the actual conditions in a veterinarian's professional practice.

“

Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the time dedicated to working on the course.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Veterinarians will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology more than 65,000 veterinarians have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. Our teaching method is developed in a highly demanding environment, where the students have a high socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



Interactive Summaries

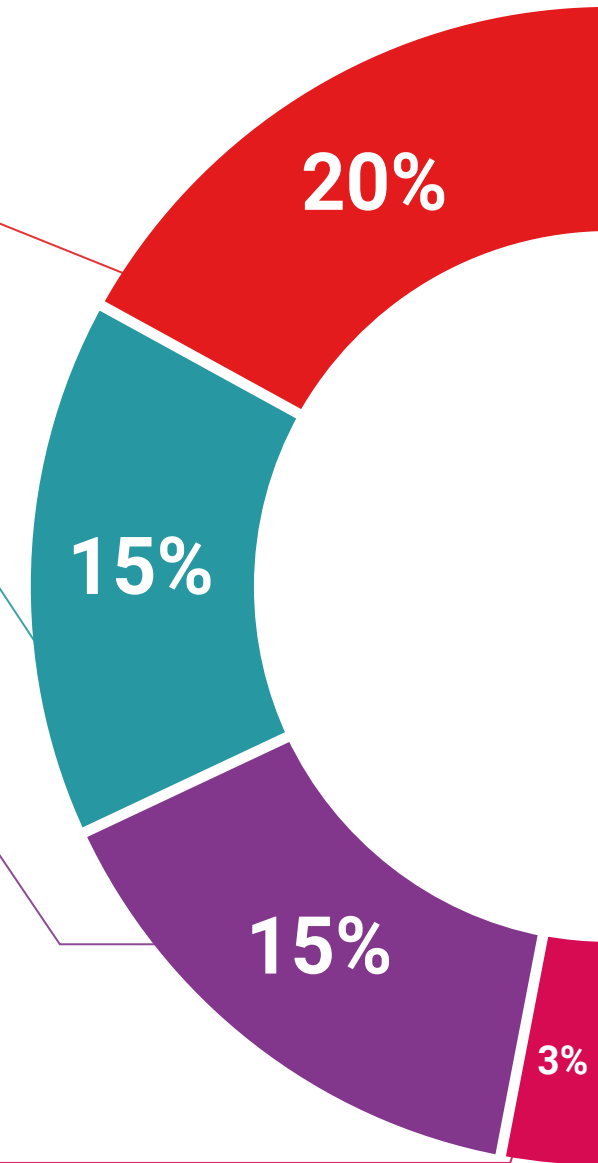
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

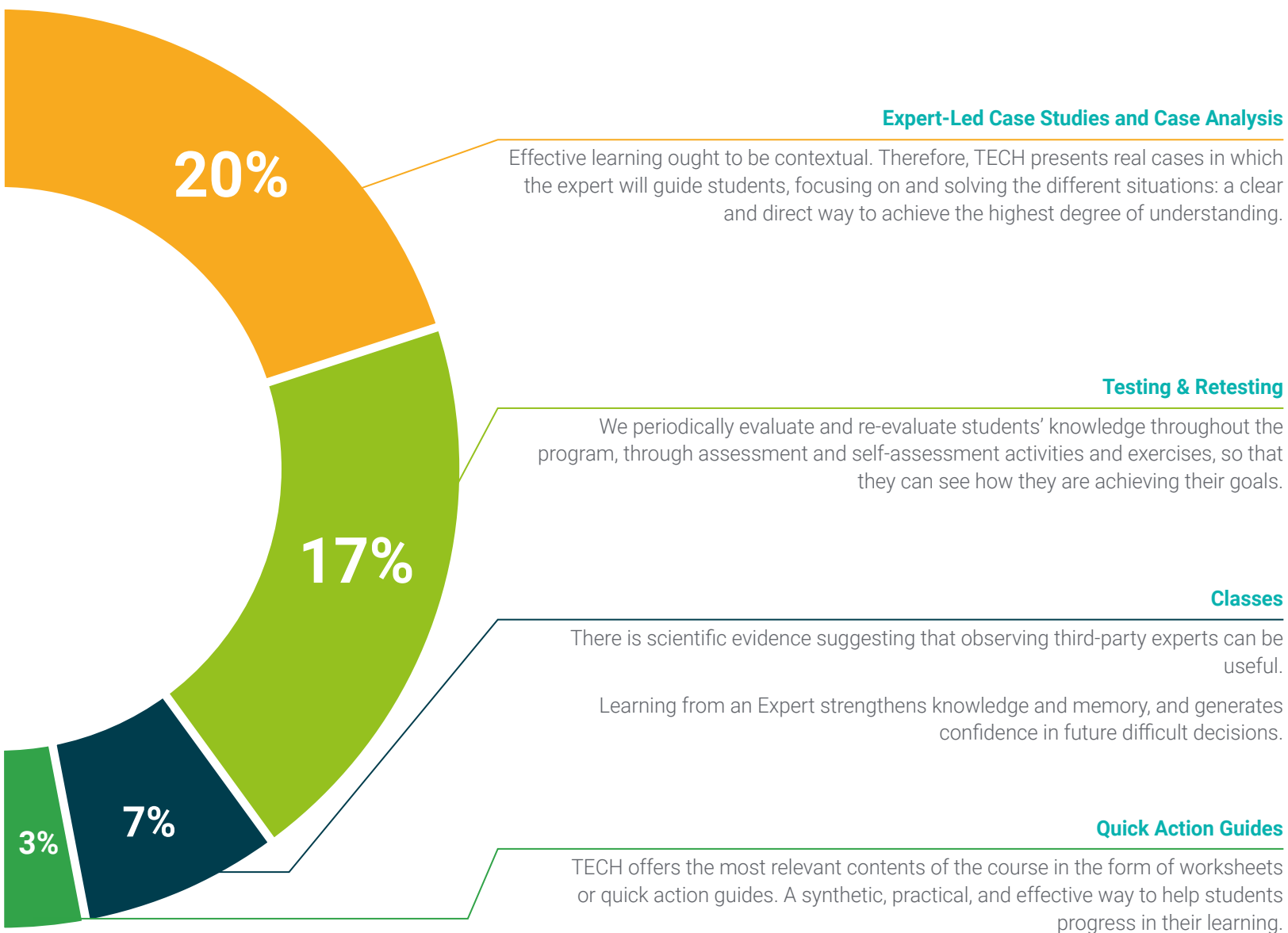
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





10 Certificate

The Hybrid Master's Degree in Small Animal Dermatology guarantees students, in addition to the most rigorous and up-to-date education, access to a Professional Master's Degree diploma issued by TECH Global University.



“

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This program will allow you to obtain your **Hybrid Master's Degree diploma in Small Animal Dermatology** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

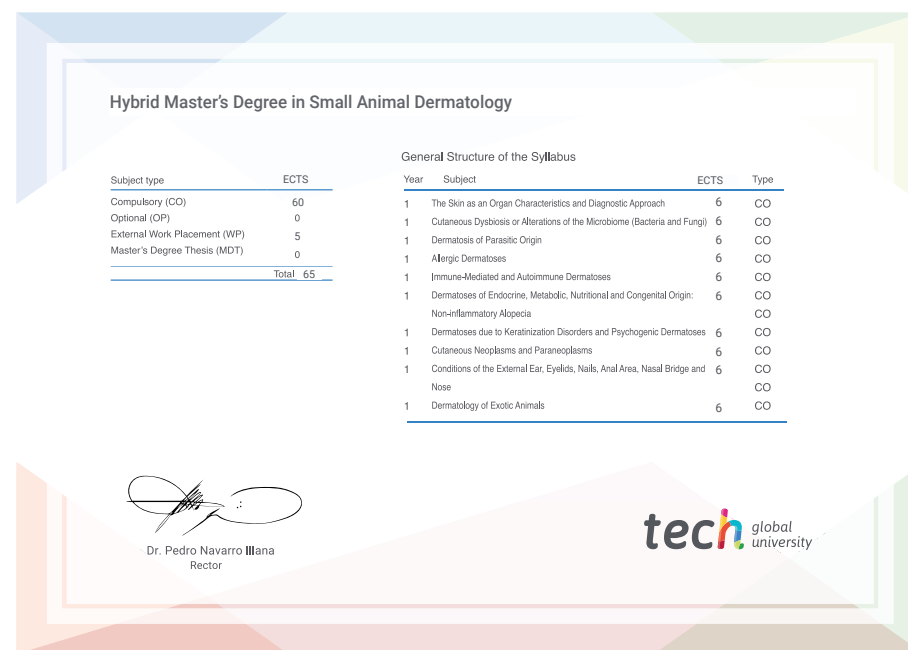
Title: **Hybrid Master's Degree in Small Animal Dermatology**

Course Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**

Certificate: **TECH Global University**

Recognition: **60 + 5 ECTS Credits**





Hybrid Master's Degree Small Animal Dermatology

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 ECTS Credits

Hybrid Master's Degree

Small Animal Dermatology

