



## Postgraduate Certificate

## Advances in Antiparasitics

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 5 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/pharmacy/postgraduate-certificate/advances-antiparasitics

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Parasites are microorganisms that require another to survive. When the host is a human being, they cause serious diseases, such as malaria. Therefore, it is necessary to continue studies and research on the subject, allowing the development of more effective antiparasitics. With this program, the pharmacist will learn all aspects of the preparation of this drug, taking into account its classification and chemical structure. Consequently, the future graduate will be ready to face new professional challenges in this area.



## tech 06 | Introduction

It is increasingly common to find cases of parasitic infections in different parts of the world. In addition, tourism to exotic places has favored the proliferation of pathogens, requiring more potent drugs to combat them. This makes it necessary for professionals to be constantly updated in the area, since only in this way can they guarantee the development of effective antiparasitics.

In this sense, the aim of this Postgraduate Certificate is to train the pharmacist to perfect the current antiparasitic drugs and to develop new options. In this sense, the program will begin by addressing the general elements and their chemical classification. Then, the drugs used for intestinal parasites will be studied, evaluating the latest scientific advances.

Similarly, a distinction will be made between the antiparasitic drugs used for each common parasitosis, such as schistosomiasis, trypanosomiasis and filariasis. All this, taking into account the latest scientific advances and WHO recommendations.

This **Postgraduate Certificate in Advances in Antiparasitics** contains the most complete and up-to-date educational program on the market. The most important features include:

- The development of case studies presented by experts focused on advances in antibiotic therapy and antibiotic resistance.
- The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Access to content from any fixed or portable device with an Internet connection.



This program will provide you with a unique experience to take your career to the next level."

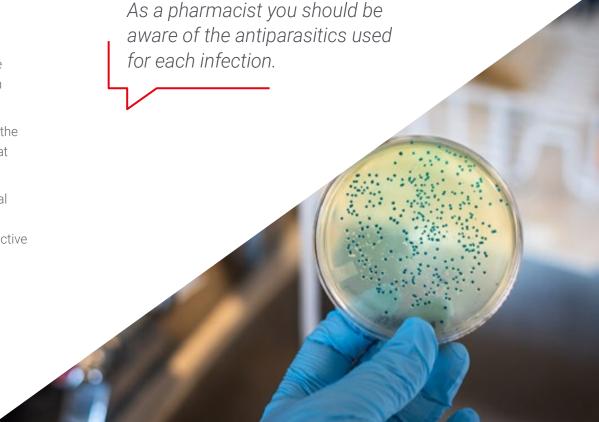


Large laboratories will turn to you to develop their new antiparasitics.

The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training 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 during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



## 02 **Objectives**

The main objective of this Postgraduate Certificate is to help students achieve professional excellence and, to this end, it has a syllabus that brings together the most current knowledge in the field of antiparasitics. In this way, students will be able to identify those drugs that work best according to the parasitosis to be treated. Thanks to this, they will be able to develop independent research to develop new drugs or improve the bacterial resistance of existing ones.



## tech 10 | Objectives



## **General Objectives**

- Guarantee professional improvement by constantly delving deeper and updating what we know.
- Know the scientific evidence on antibiotic therapy and antimicrobial resistance.
- Establish the correct use of drugs and the proper treatment of infectious diseases.
- Use a multidisciplinary and integrative approach to facilitate the control of these pathologies.







## **Specific Objectives**

- Know the latest advances in antiparasitic drugs for trypanosomiasis
- Identify the therapeutic and pharmacological uses of antiparasitic drugs for schistosomiasis
- Determine the use of treatments for other less common parasitosis, such as dracunculiasis and hydatid cysts



Do you still doubt it? Your career path will benefit after completing this degree."







## tech 14 | Course Management

#### Management



#### Dr. Quintero Casanova, Jesús

- Degree in Medicine and Surgery from the Medical University of Havana. Cuba
- Specialist in Internal Medicine. "Héroes del Baire" Hospital
- Professional Master's Degree in Tropical Diseases and Clinical Infectious Diseases from the Pedro Kuori Institute, Havana. Cuba
- Head of the Infectious Diseases Department of the Héroes del Baire Hospital
- Member of the Cuban Society of Internal Medicine
- Member of the Cuban Society of Paediatricians
- Medical specialist in Africa (TChad) and Venezuela
- Professor on the Medicine Degree and Internal Medicine Speciality at the Faculty of Medical Sciences of Isla de la Juventud
- Main professor of the Professional Master's Degree in infectious diseases of the Faculty of Medical Sciences of the Isle of Youth.
- Member of state examining boards for the medicine degree and internal medicine
- National Research Award in Cuba
- Medical Science Teaching Award. Cuba

#### **Professors**

#### Dr. Valle Vargas, Mariano

- Head of the Internal Medicine Department of the Héroes del Baire Hospital
- Member of the Cuban Society of Internal Medicine
- Member of the Cuban Society of Paediatricians
- Medical specialist in Venezuela
- Professor on the Medicine Degree and Internal Medicine Speciality at the Faculty of Medical Sciences of Isla de la Juventud
- Professor of the Professional Master's Degree in Infectious Diseases in the Faculty of Medical Sciences in Isla de la Juventud
- Member of state examining boards for the medicine degree and internal medicine
- Member of tribunals for national scientific events. Cuba
- Degree in Medicine and Surgery from the University of Havana. Cuba
- \* Specialist in Internal Medicine. "Héroes del Baire" Hospital
- Master's Degree in Health Biostatistics
- Diploma in Epidemiology
- Medical Science Teaching Award. Cuba

#### Dr. Cantalapiedra Torres, Alejandro

- Member of the Cuban Society of Pediatrics
- Professor in the Medicine Degree and Pediatrics Specialty in the Faculty of Medical Sciences in Isla de la Juventud
- Member of tribunals for national scientific events. Cuba
- Medical specialist in Haiti
- Medical specialist in Antigua and Barbuda year 2008
- \* Degree in Medicine and Surgery from the University of Havana. Cuba
- Pediatrician. "Héroes del Baire" Hospital
- Master's Degree in infectious diseases
- Certificate in Medical Teaching
- Certificate in Health Management

#### Dr. Laurence Carmenaty, Araelis

- Professor on the Medicine Degree in the Faculty of Medical Sciences in Isla de la Juventud
- Member of the Cuban Society of Microbiology
- Member of the Association of Pedagogues
- Degree in Microbiology University of Havana
- Master's Degree in infectious diseases
- She has participated in national and international microbiology events in Cuba and Venezuela.

## tech 16 | Course Management

#### Dr. Dranguet Bouly, José Ismael

- \* Head of the Internal Medicine Department of the Héroes del Baire Hospital
- Member of the Cuban Society of Internal medicine and the Cuban Society of Intensive Therapy
- Member of the Cuban Society of Paediatricians
- Medical specialist in Mozambique
- Professor on the Medicine Degree and Internal Medicine Speciality at the Faculty of Medical Sciences of Isla de la Juventud
- Professor of the Professional Master's Degree in Infectious Diseases in the Faculty of Medical Sciences in Isla de la Juventud
- Member of state examining boards for the medicine degree and internal medicine
- Member of tribunals for national scientific events. Cuba
- Professor at the Catholic University of Santiago de Guayaquil, Ecuador.
- Degree in Medicine and Surgery from the University of Havana. Cuba
- \* Specialist in Internal Medicine and Intensive Therapy. "Héroes del Baire" Hospital
- Master's Degree in Infectious Diseases from the Pedro Kouri Institute of Cuba
- Medical Science Teaching Award. Cuba

#### Dr. González Fiallo, Sayli

- Professor of the Faculty of Medical Sciences in Isla de la Juventud
- Director of the Health Analysis, Biostatistics, and Surveillance Unit of the Municipal Health Directorate. Isle of Youth
- Degree in Hygiene and Epidemiology
- Master's Degree in Epidemiology

#### Dr. Dávila, Henry Luis

- Member of the Cuban Society of Gynecology and Obstetrics
- Member of the Cuban Society of Paediatricians
- Medical specialist in Guatemala
- Professor on the Medicine Degree in the Faculty of Medical Sciences in Isla de la Juventud
- Member of state examination boards in the field of medicine
- Member of tribunals for national scientific events. Cuba
- National research award, Cuba
- Degree in Medicine and Surgery from the University of Havana. Cuba
- \* Specialist in Gynecology and Obstetrics at Héroes del Baire Hospital. Cuba
- Master's Degree in comprehensive care for women
- Head of the Neck Pathology Service at Héroes del Baire Hospital
- Medical Science Teaching Award. Cuba

#### Dr. Jiménez Valdés, Erlivan

- Member of the Cuban Society of Pediatrics
- Professor in the Medicine Degree and Pediatrics Specialty in the Faculty of Medical Sciences in Isla de la Juventud
- Member of tribunals for national scientific events. Cuba
- Medical specialist in Venezuela
- Degree in Medicine and Surgery from the University of Havana. Cuba
- Pediatrician. "Héroes del Baire" Hospital
- Master's Degree in comprehensive childcare



## Course Management | 17 tech

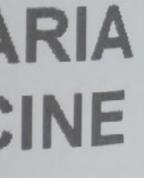
#### Dr. Batista Valladares, Adrián

- Head of Senior Citizen Services in Isla de la Juventud. Cuba
- Member of the Cuban Society of Family Medicine
- Professor of the career of medicine and specialty of family medicine at the Isle of Youth Faculty of Medical Sciences.
- Professor of the Professional Master's Degree in Infectious Diseases in the Faculty of Medical Sciences in Isla de la Juventud
- Member of state examining boards for the medicine degree and speciality of family medicine
- Member of tribunals for national scientific events. Cuba
- Degree in Medicine and Surgery from the University of Havana. Cuba
- Specialist in Family and Community Medicine
- Master's Degree in Clinical Infectology
- Certificate in Diagnostic Ultrasound
- Diploma in healthcare management



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The innovative content of this degree will help you specialize, competing with other professionals in the sector at an international level."



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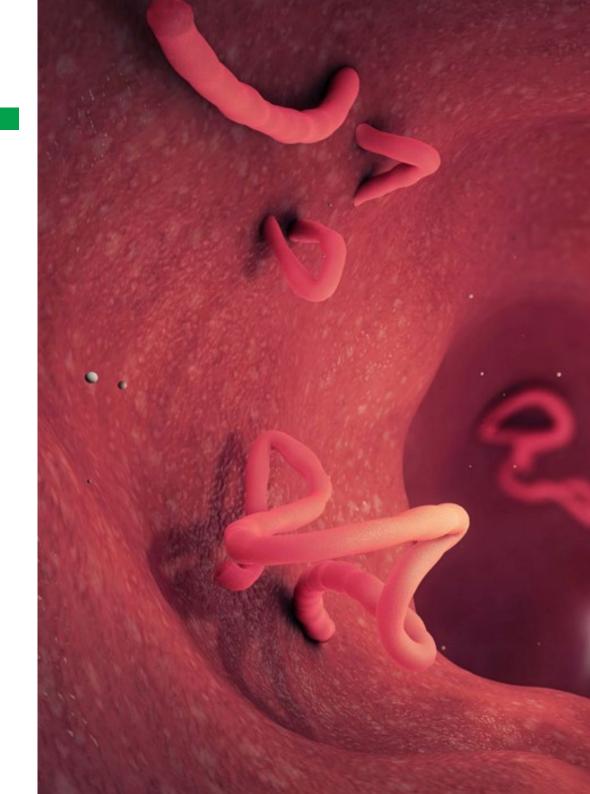
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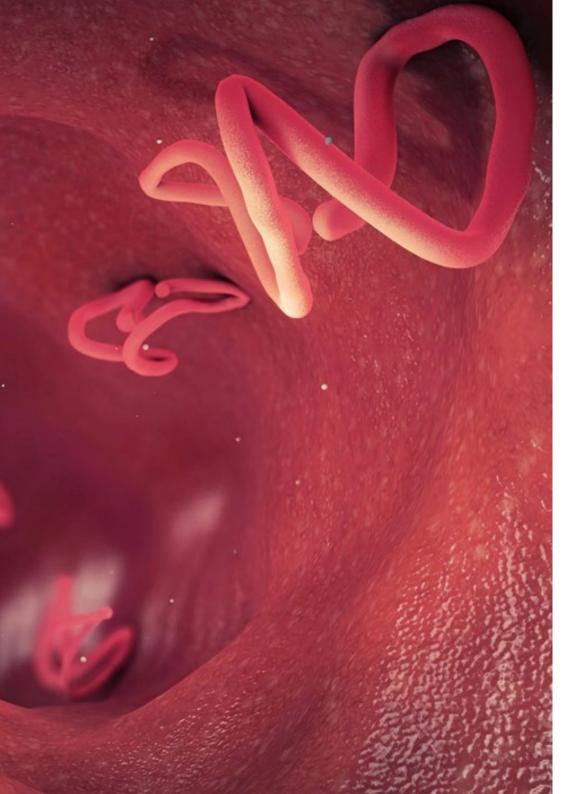


## tech 20 | Structure and Content

#### Module 1. Antiparasitics II

- 1.1. General Elements
  - 1.1.1. Concept
  - 1.1.2. Origins and Development
- 1.2. Classification
  - 1.2.1. Classification by Chemical Structure
  - 1.2.2. Classification by Action Against Different Parasites
- 1.3. Mechanisms of action
  - 1.3.1. Action Mechanisms of Antiparasitics
- 1.4. Antiparasitics for Intestinal Parasitism: New Advances
  - 1.4.1. Classification
  - 1.4.2. Mechanism of Action
  - 1.4.3. Antimicrobial Spectrum
  - 1.4.4. Pharmacokinetics and Pharmacodynamics
  - 1.4.5. Therapeutic Uses
  - 1.4.6. Adverse Effects
  - 1.4.7. Presentation and Dosage
- 1.5. Antimalarials: Latest WHO Recommendations
  - 1.5.1. Classification
  - 1.5.2. Mechanism of Action
  - 1.5.3. Antimicrobial Spectrum
  - 1.5.4. Pharmacokinetics and Pharmacodynamics
  - 1.5.5. Therapeutic Uses
  - 1.5.6. Adverse Effects
  - 1.5.7. Presentation and Dosage
- 1.6. Update on Antiparasitics for Filariasis
  - 1.6.1. Classification
  - 1.6.2. Mechanism of Action
  - 1.6.3. Antimicrobial Spectrum
  - 1.6.4. Pharmacokinetics and Pharmacodynamics
  - 1.6.5. Therapeutic Uses
  - 1.6.6. Adverse Effects
  - 1.6.7. Presentation and Dosage





## Structure and Content | 21 tech

- 1.7. Latest Advances in Antiparasitics for Trypanosomiasis
  - 1.7.1. Classification
  - 1.7.2. Mechanism of Action
  - 1.7.3. Antimicrobial Spectrum
  - 1.7.4. Pharmacokinetics and Pharmacodynamics
  - 1.7.5. Therapeutic Uses
  - 1.7.6. Adverse Effects
  - 1.7.7. Presentation and Dosage
- 1.8. Antiparasitics for Schistosomiasis
  - 1.8.1. Classification
  - 1.8.2. Mechanism of Action
  - 1.8.3. Antimicrobial Spectrum
  - 1.8.4. Pharmacokinetics and Pharmacodynamics
  - 1.8.5. Therapeutic Uses
  - 1.8.6. Adverse Effects
  - 1.8.7. Presentation and Dosage
- 1.9. Antiparasitics for Leishmaniasis
  - 1.9.1. Classification
  - 1.9.2. Mechanism of Action
  - 1.9.3. Antimicrobial Spectrum
  - 1.9.4. Pharmacokinetics and Pharmacodynamics
  - 1.9.5. Therapeutic Uses
  - 1.9.6. Adverse Effects
  - 1.9.7. Presentation and Dosage
- 1.10. Treatment of Other Less Common Parasitosis
  - 1.10.1. Dracunculiasis
  - 1.10.2. Quiste hidatídico
  - 1.10.3. Other Tissue Parasites

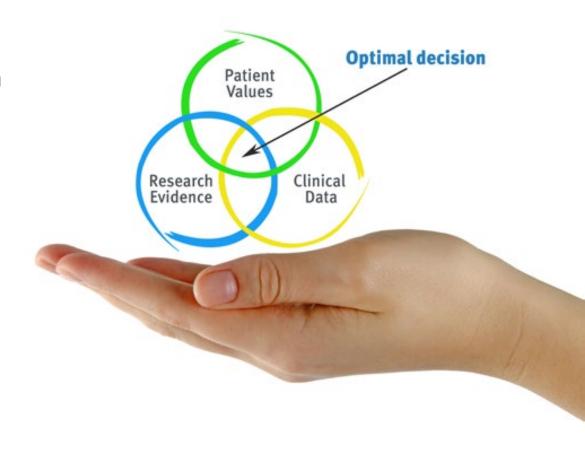


## tech 24 | Methodology

#### At TECH we use the Case Method

In a given clinical situation, what would you do? 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 abundant scientific evidence on the effectiveness of the method. Pharmacists learn better, more quickly and more sustainably over time.

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



According to Dr. Gérvas, 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 potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, attempting to recreate the actual conditions in a pharmacist'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. Pharmacists who follow this method not only achieve the assimilation of concepts, but also develop their mental capacity through exercises to evaluate real situations and apply their knowledge.
- 2. The learning process has a clear focus on 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. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.





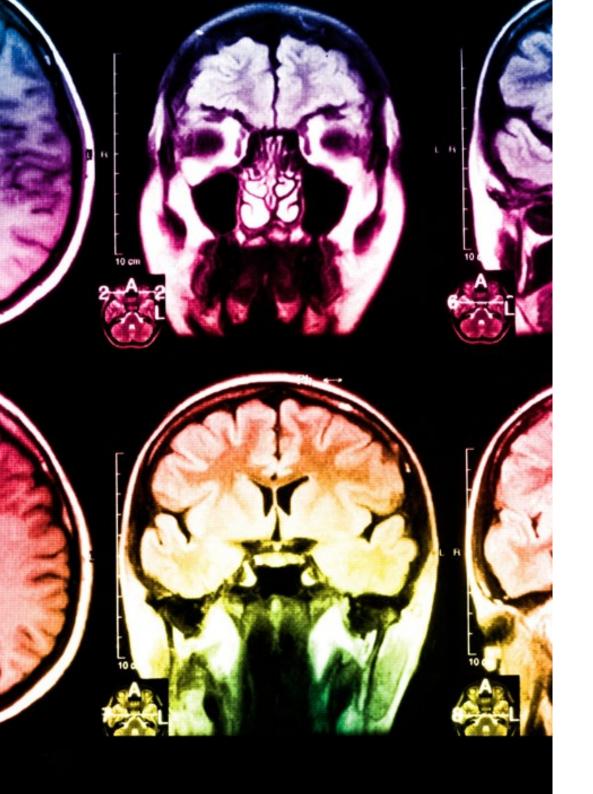
#### **Re-Learning Methodology**

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.

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





### Methodology | 27 tech

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

With this methodology we have trained more than 115,000 pharmacists with unprecedented success, in all clinical specialties. Our pedagogical methodology is developed in a highly demanding environment, with a university student body with a high socioeconomic profile and an average age of 43.5 years old.

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

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

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

In this program you will have access to the best educational material, prepared with you in mind:



#### **Study Material**

All teaching material is created specifically for the course by specialist pharmacists who will be teaching the course, so that the didactic development is highly specific and accurate.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### **Video Techniques and Procedures**

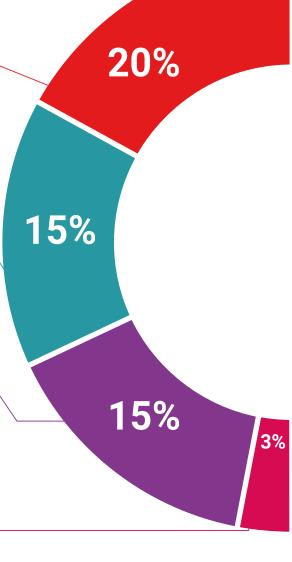
We bring you closer to the latest techniques, to the newest educational advances, to the forefront of current pharmaceutical care procedures. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### **Interactive Summaries**

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





#### **Additional Reading**

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





#### **Testing & Re-testing**

understanding.



We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.

#### Classes



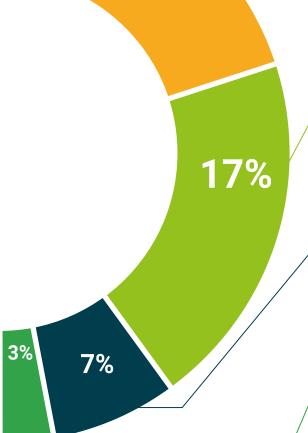
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.

#### **Quick Action Guides**



We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.







## tech 32 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Advances in Antiparasitics** 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: Postgraduate Certificate in Advances in Antiparasitics

Modality: online

Duration: 6 weeks

Accreditation: 5 ECTS



Mr./Ms. \_\_\_\_\_, with identification document \_\_\_\_\_\_ has successfully passed and obtained the title of:

#### Postgraduate Certificate in Advances in Antiparasitics

This is a program of 150 hours of duration equivalent to 5 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



<sup>\*</sup>Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

tech, global university

# Postgraduate Certificate Advances in Antiparasitics

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

