Postgraduate Certificate

Microbiota, Intolerances and Allergies





Postgraduate Certificate

Microbiota, Intolerances and Allergies

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 4 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/microbiota-intolerances-allergies

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Certificate

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Numerous pieces of scientific evidence have implicated the intestinal microbiome and its metabolic potential in various pathological conditions in recent years, giving rise to new therapeutic strategies to control and regulate this ecosystem. The study of this ecosystem is a field that is rapidly advancing scientifically, and it is universally accepted that to achieve an adequate state of health it is also necessary to have a "healthy" Microbiota.

Our Microbiota undergoes changes as a consequence of the influence of multiple factors, diet, lifestyle, pharmacological treatments..., generating alterations in this bacterial ecosystem; this abnormal interaction that the organism could have with it is related to certain processes: allergic, acute and chronic intestinal diseases, obesity and metabolic syndrome, neurological diseases, dermatitis and other alterations in the dermis and even some types of cancer.

This Postgraduate Certificate in Microbiota, Intolerances and Allergies provides ease of access to information and the interest aroused among the general population on topics related to the microbiota, its eubiosis and dysbiosis, problems related to them, probiotics and prebiotics and the growing market launching new products with very specific strains for very specific problems and diseases, etc. This makes it necessary for health professionals to be up to date on all scientific advances in this regard to offer the consumer and/or patients more accurate information on the subject, guiding them to recover and maintain that bacterial eubiosis to maintain a good state of health, in addition to collaborating in a positive way with the recommended medical treatment.

This training helps professionals in this field to increase their ability to succeed, which results in better praxis and performance that will have a direct impact on educational outcomes, on the improvement of the educational system and on the social benefit for the whole community"

This **Postgraduate Certificate in Microbiota, Intolerances and Allergies** contains the most complete and up-to-date scientific program on the market. The most important features of the course are:

- Clinical cases presented by experts in Microbiota, Intolerances and Allergies. Its
 graphic, schematic and eminently practical contents, which are designed to provide
 scientific and healthcare expertise in medical disciplines that are essential for
 professional practice.
- · Lastest information on Microbiota, Intolerances and Allergies.
- It contains practical exercises where the self-evaluation process can be carried out to improve learning.
- Special emphasis on innovative methodologies in Microbiota, Intolerances and Allergies.
- All this will be complemented by 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



Update your knowledge through the Postgraduate Certificate program in Microbiota, Intolerances and Allergies"



This Postgraduate Certificate may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in Microbiota, Intolerances and Allergies, you will obtain a Postgraduate Certificate certificate from TECH Global University"

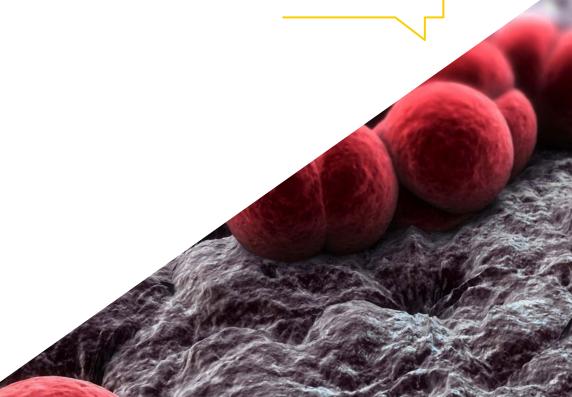
The teaching staff includes teaching professionals, who bring their experience to this training program, as well as renowned specialists belonging to leading societies and prestigious universities.

The multimedia content developed with the latest educational technology will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training program to train in real situations.

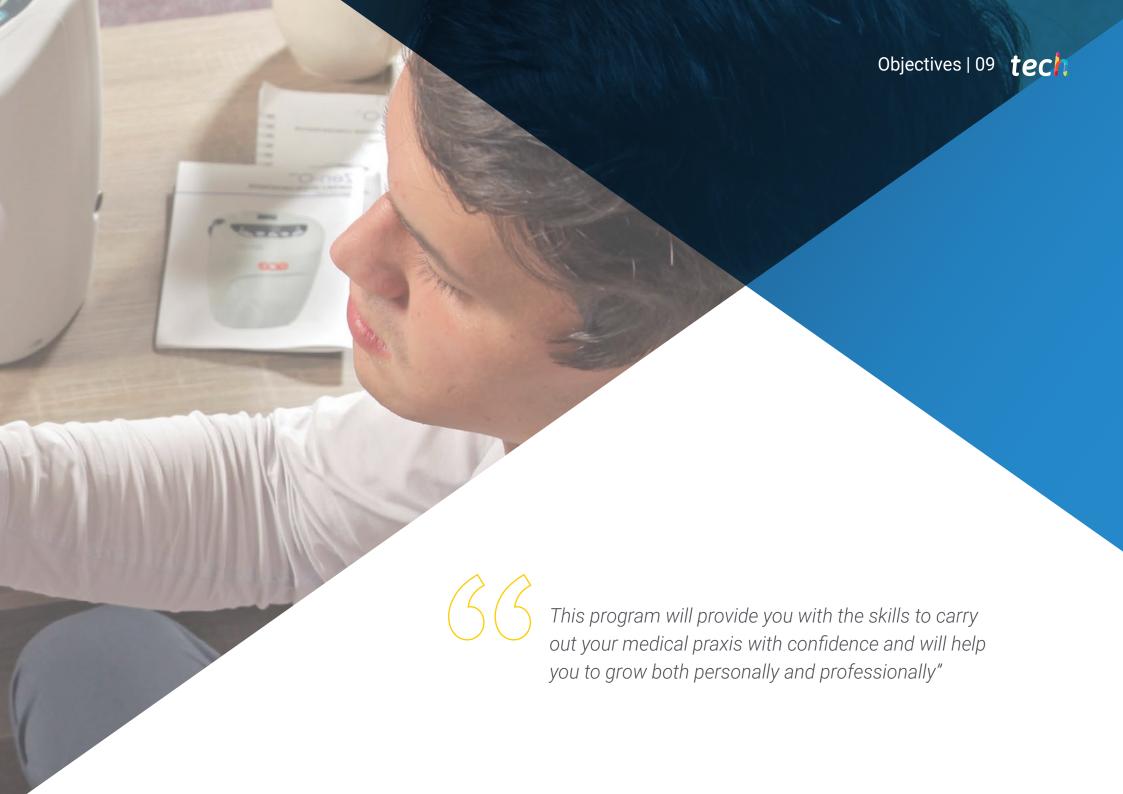
The design of this program is based on problem-based learning, by means of which the educator must try to solve the different professional practice situations that arise throughout the Postgraduate Certificate. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of Microbiota, Intolerances and Allergies with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.

Make the most of the opportunity to learn about the latest advances in Microbiota, Intolerances and Allergies and improve your patient care.







tech 10 | Objectives



General Objectives

- Offer a complete and broad vision of the current situation in the area of the Human Microbiota, in its widest sense, the importance of the balance of this microbiota as a direct effect on our health, with the multiple factors that influence it positively and negatively
- Provide scientific evidence on how, currently, the Microbiota and its interaction with many non-digestive pathologies, autoimmune conditions, or its relationship with the dysregulation of the immune system, disease prevention, and support for other medical treatments are being prioritized
- Promote work strategies based on an integrated approach to patient care as a
 reference model, not only focusing on the symptoms of a specific pathology but
 also considering its interaction with the Microbiota and how it may be influencing it
- Incentivize professional growth through continuous specialization and research





Specific Objectives

- Understand how negative modulation in the Microbiota can promote the onset of food intolerances and allergies
- Delve into the changes in the Microbiota in patients following food exclusion diets, such as gluten-free diets



Identify the most effective tools for addressing lactose intolerance through the modulation of the Microbiota"







International Guest Director

Dr. Harry Sokol is internationally recognized in the field of **Gastroenterology** for his research on the **gut microbiota**. With more than 2 decades of experience, he has established himself as a true scientific authority thanks to his numerous studies on the role of **microorganisms in the human body** and their impact on **chronic inflammatory bowel diseases**. In particular, his work has revolutionized medical understanding of this organ, often referred to as the **«second brain.»**

Among Dr. Sokol's contributions, he and his team have opened a new line of advances on the bacterium Faecalibacterium prausnitzii. In turn, these studies have led to crucial discoveries about its anti-inflammatory effects, opening the door to revolutionary treatments.

In addition, the expert is distinguished by his commitment to the dissemination of knowledge, whether by teaching academic programs at the Sorbonne University or by publishing works such as the comic book The Extraordinary Powers of the Belly. His scientific publications appear continuously in world-renowned journals and he is invited to specialized congresses. At the same time, he carries out his clinical work at the Saint-Antoine Hospital (AP-HP/University Hospital Federation IMPEC/Sorbonne University), one of the most renowned hospitals in Europe.

On the other hand, Dr. Sokol began his **medical studies** at Paris Cité University, showing early on a strong interest in **health research**. A chance meeting with the eminent Professor Philippe Marteau led him to **Gastroenterology** and the enigmas of the **Intestinal Microbiota**. Throughout his career, he also broadened his horizons by training in the United States, at Harvard University, where he shared experiences with **leading scientists**. Upon his return to France, he founded his **own team** where he researches on **Fecal Transplantation**, offering state-of-the-art therapeutic innovations.



Dr. Sokol, Harry

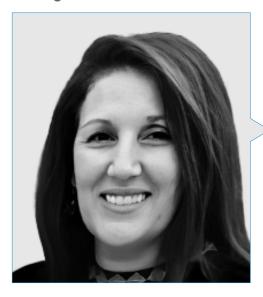
- Director of Microbiota, Gut and Inflammation at Sorbonne University, Paris, France
- Specialist Physician at the Gastroenterology Department of the Saint-Antoine Hospital (AP-HP), Paris, France
- Group Leader at the Institut Micalis (INRA)
- Coordinator of the Center of Microbiome Medicine of Paris FHU
- Founder of the pharmaceutical company Exeliom Biosciences (Nextbiotix)
- President of the Fecal Microbiota Transplantation Group
- Medical Specialist in different hospitals in Paris
- Doctorate in Microbiology at the Université Paris-Sud
- Postdoctoral Fellowship at the Massachusetts General Hospital, Harvard University Medical School
- Degree in Medicine, Hepatology and Gastroenterology at Université Paris Cité



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

tech 16 | Course Management

Management



Fernández Montalvo, Mª Ángeles

- Degree in Biochemistry from the University of Valencia
- Specialist Degree in Nutrition, Dietetics and Diet Therapy
- Expert in Microbiological Food Analysis
- Expert in Nutrition, Food, and Cancer. Prevention and Treatment.
- · Expert in Vegetarian, Clinical, and Sports Nutrition
- Specialist in food intolerances and the study of the intestinal microbiota.
- Numerous courses on Intestinal microbiota, methods of analysis, and applications
- Diploma in Natural and Orthomolecular Medicine
- Expert in the current use of Nutricosmetics and Nutraceuticals in general
- Expert in point-of-sale management in Pharmacies and Parapharmacies.
- Member of the Spanish Society of Probiotics and Prebiotics (SEPyP).
- Member of the Spanish Society of Dietetics (SEDCA
- Member of the Spanish Society of Nutrition (SEÑ)

Professors

Dr. Álvarez García, Verónica

- Degree in Medicine
- Digestive system specialist at the Central Hospital of Asturias (HUCA)

Fernández Montalvo, Mª Ángeles

- Biochemist-Nutritionist-Phytotherapist head of the Natural life Nutrition and Integral Medicine Center
- Manager of Parapharmacy and director of several nutrition training courses

Fernández Madera, Juan

- · Degree in Medicine
- Specialist in Allergology and Clinical Immunology
- Specialist in Sports Medicine

Dr. Gonzalez Rodríguez, Silvia P

- PhD in Medicine and Surgery from the University of Alcalá de Henares. Gynecology Specialist.
- Medical Subdirector, Research Coordinator and Clinical Chief of the Menopause and Osteoporosis Unit at the Velázquez Medical Cabinet (Madrid)

Dr. Lombó Burgos, Felipe

 PhD in Biology from the University of Oviedo and now a professor at the same university

Dr. López López, Aranzazu

- PhD in Biological Sciences. Researcher in oral microbiology at FISABIO foundation
- Public Health Research Center of Valencia

Dr. Méndez García, Celia

 PhD in Microbiology from the University of Oviedo Research at Novartis Laboratories (Boston)

Solís Sánchez, Gonzalo

- Neonatologist at the Hospital Universitario Central de Asturias (HUCA)
- Researcher, Associate Professor of the University of Oviedo

Díaz Martín, Juan José

- Pediatric gastroenterologist at the Central Hospital of Asturias (HUCA)
- Member of the Spanish Society of Pediatric Gastroenterology, Hepatology, and Nutrition
- Associate Professor of Pediatrics at the University of Oviedo

Suárez Rodríguez, Marta

- Neonatologist of the Central University Hospital of Asturias (HUCA)
- Researcher and Professor of the TECH Master's Degree in Early Care and the TECH Master's Degree in Critical Care Nursing at the University of Oviedo and other training courses.

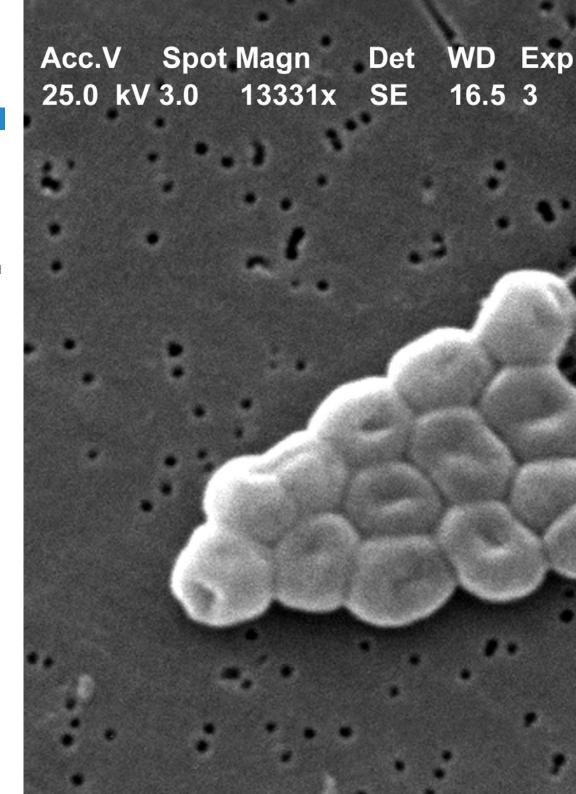


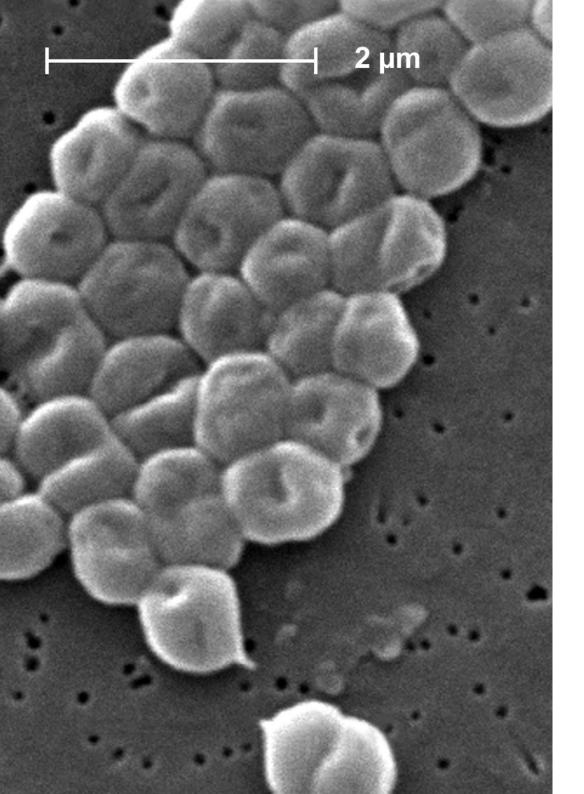


tech 20 | Structure and Content

Module 1. The Relationship between Intolerances/Allergies and the Microbiota

- 1.1. Microbiota Changes in Patients on Food Exclusion Diets
 - 1.1.1. Eosinophilic Esophagitis (EoE)
- 1.2. Changes in the Microbiota in Patients with Food Exclusion Diets: Intolerance to Dairy Products (Lactose, Milk Proteins: Caseins, Albumins, Others)
 - 1.2.1. Lactose Intolerance
 - 1.2.2. Intolerant to Lactic Proteins: Caseins, Albumins, etc.
 - 1.2.3. People Allergic to Milk
- 1.3. Alteration and Recovery of the Intestinal Microbiota in Patients with Gluten Intolerance and Celiac Disease
 - 1.3.1. Alteration of the Intestinal Microbiota in Patients with Gluten Intolerance
 - 1.3.2. Alteration of the Intestinal Microbiota in Celiac Patients
 - 1.3.3. Role of Probiotics and Prebiotics in the Recovery of the Microbiota in Gluten Intolerant and Celiacs
- 1.4. Microbiota and Biogenic Amines
- 1.5. Current Lines of Research

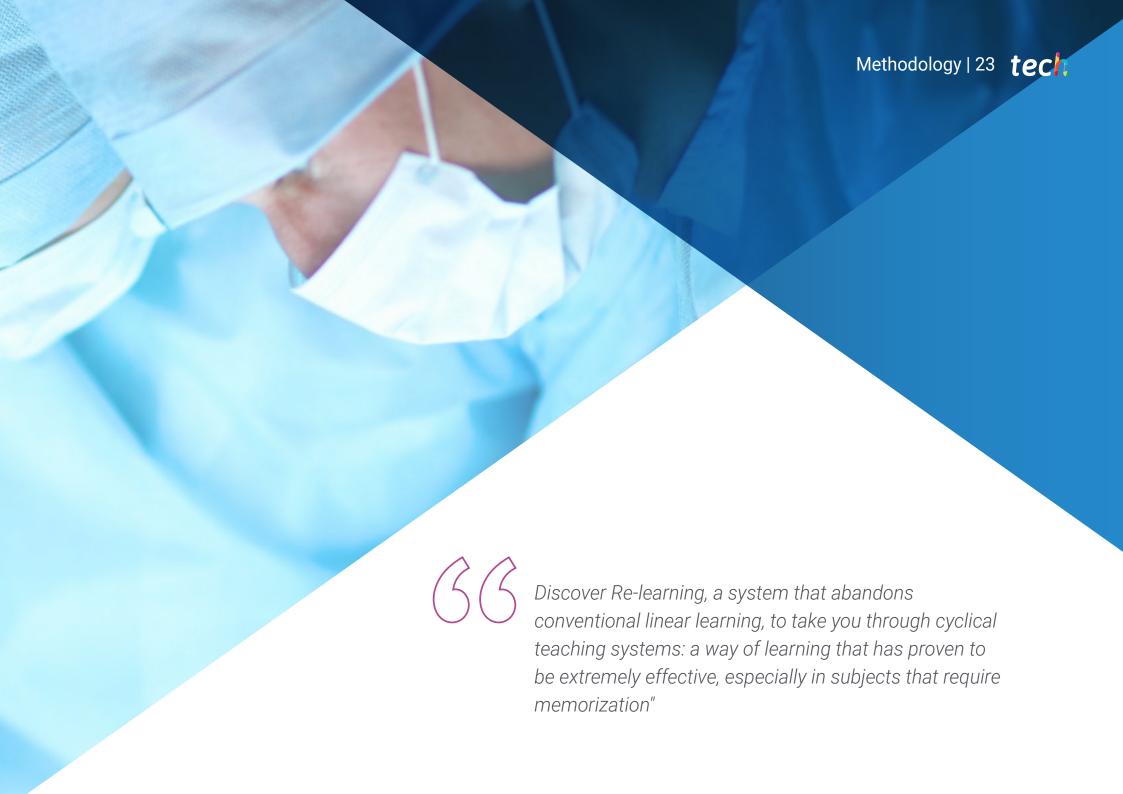






Find in this comprehensive syllabus all the key concepts related to dairy protein intolerances, such as caseins, albumins, and more"





tech 24 | Methodology

At TECH we use the Case Method

In a given 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. Specialists learn better, faster, 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, trying to recreate the real conditions in professional medical 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:

- Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying 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.
- 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.

The physician 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 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

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.



Latest Techniques and Procedures on Video

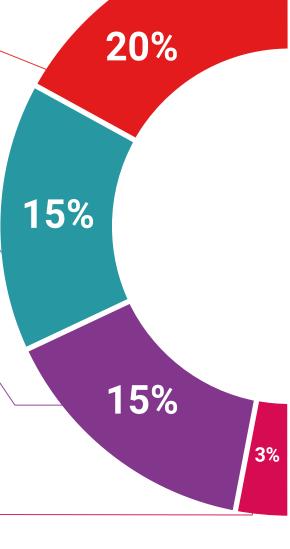
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



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.

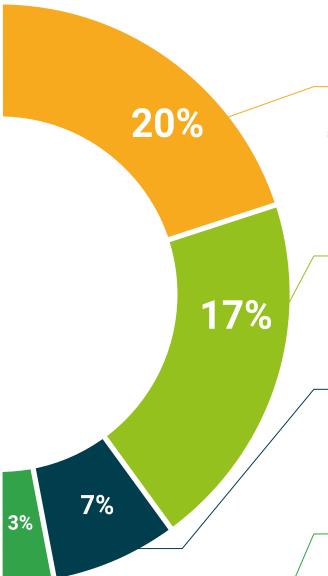
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





Additional Reading

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



Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-Testing

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.





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 Microbiota, Intolerances** and **Allergies** 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 Microbiota, Intolerances and Allergies

Modality: **online**

Duration: 6 weeks

Accreditation: 4 ECTS



has successfully passed and obtained the title of: Postgraduate Certificate in Microbiota, Intolerances and Allergies

This is a program of 120 hours of duration equivalent to 4 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



^{*}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

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