

Internship Program

Human Microbiota



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A large, diagonal, high-magnification microscopic image of human microbiota, likely the gut lining, showing a complex, textured surface with numerous small, rounded, and elongated structures. The image is divided into three color-coded regions: a blue region on the left, a yellow region in the center, and a grey region on the right. The word 'tech' is written in a stylized font in the bottom right corner, with the 't' in grey, 'e' in blue, 'c' in red, and 'h' in green.



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01 Introduction

After recent research has shown the benefits of a balanced microbiota in terms of disease prevention, many people come to the doctor's office concerned about this area in order to improve their state of health. Therefore, professionals with high competence in their treatment and in the proper administration of probiotics are increasingly needed in the health sector. Because of this, TECH has created this program, with which the student will assimilate a series of skills that will allow them to be at the forefront of this medical branch in only 3 weeks and through a practical experience in a reference hospital center.



Incorporate into your work methodology the latest advances in probiotics to treat Human Microbiota Dysbiosis in different types of patients"





Bad habits, sedentary lifestyle or intolerance to different types of food are some of the main causes of dysbiosis in the Human Microbiota. Faced with this problem, which is becoming more and more constant in today's society, new probiotics have been designed to supply this imbalance in a safe and fast way so that people can strengthen their health and prevent the contraction of diseases. The intestinal benefits provided by these microorganisms, in continuous improvement thanks to scientific advances, oblige physicians to master their proper administration to ensure the well-being of their patients.

For this reason, TECH has designed this Internship Program, which will enable physicians to adopt cutting-edge diagnostic and therapeutic skills in this field in order to improve their health care and face the daily challenges of their profession with solvency. Over the course of 3 weeks, the student will be integrated into an excellent multidisciplinary work team, in which they will adopt the skills required to make up for deficiencies in the microbiota of patients suffering from dairy or gluten intolerance or detect digestive disorders and problems caused by poor absorption of nutrients, among other issues.

Throughout this practical period, the student will be guided by a specially appointed tutor, who will be responsible for resolving any doubts that may arise during the hospital stay, providing advice to facilitate professional practice and, in short, ensuring that the learning process meets the proposed expectations.



The teaching materials of this program, elaborated by these specialists, have contents that are completely applicable to your professional experiences"

02

Why Study an Internship Program?

In a continuously evolving field such as the Human Microbiota, knowing how to transfer all diagnostic and therapeutic innovations to the work environment is essential to provide quality health services to each patient. It is for this reason that TECH has developed this innovative program with which, in an exclusively practical way and through a hospital stay in a prestigious center, the student will incorporate the most significant advances in this area in just 120 hours to enrich their daily practice.



TECH gives you the opportunity to carry out a 120-hour practical internship in a first class hospital center to increase your skills in the management of the Human Microbiota"

1. Updating from the latest technology available

The area of Human Microbiota is constantly evolving due to the appearance of updated probiotics that allow the treatment of imbalances caused by dietary deficiencies or food intolerances. In view of this situation, TECH has created this program through which, in a practical way, the physician will be able to get up to date in this discipline in order to enhance his or her healthcare skills.

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

In this Internship Program, the student will have access to a medical team made up of the best professional experts in Human Microbiota, which guarantees the immense quality of this program. Together with them, advised by your tutor, you will develop your functions with real patients and adopt those competencies that will allow you to develop a state-of-the-art medical practice.

3. Entering First-Class Clinical Environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious clinical environment in the field of Human Microbiota, acquiring excellent experience in the management of the most updated technology and therapeutics in this field.



4. Putting the acquired knowledge into daily practice from the very first moment

Within the educational system, the vast majority of academic programs require arduous hours of study so that, in the end, the knowledge acquired lacks applicability in the professional environment. For this reason, TECH has created a program lasting only 3 weeks, in which students will develop their medical skills in a practical way to preserve their day-to-day use.

5. Expanding the Boundaries of Knowledge

TECH offers the possibility of carrying out this Internship Program in the best international hospital centers. This way, the specialist will be able to expand their frontiers and catch up with the best professionals, who practice in first class centers and in different continents. An opportunity that only TECH, one of the best educational institutions in the world, could make available to its students.

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

03

Objectives

The main objective of this Internship Program is to encourage physicians to expand and update their skills in the field of Human Microbiota, in order to offer their patients a detailed, efficient health care based on the latest scientific evidence.



General Objectives

- ♦ Manage the multiple factors that influence the microbiota both positively and negatively to preserve an adequate state of health in the patient
- ♦ Master the interaction of the microbiota with a wide range of non-digestive pathologies of an autoimmune nature
- ♦ Promote work strategies based on the integral approach to the patient as a reference model



Make the most of this opportunity to surround yourself with expert professionals and learn from their work methodology”





Specific Objectives

- Understand how drugs with human targets can have a negative impact on the gut microbiota, in addition to the known impact of antibiotics
- Analyze the microbial communities that coexist in symbiosis with humans, learning more about their structure and functions and how these communities can be altered due to factors such as diet, lifestyle, etc.
- Understand the relationship between the intestinal pathologies SIBO, IBS, Crohn's disease and intestinal dysbiosis
- Identify the intestinal microbiota as the main axis of the human microbiota and detect its interrelation with the rest of the body, its study methods and its applications in clinical practice to maintain a good state of health
- Master the most influential factors of the mother's intestinal microbiota, both at delivery and during the gestation period itself
- Delve into the clinical applications of probiotics and prebiotics in the pediatric patient
- Manage the mechanisms by virtue of which probiotics are postulated as preventive in the formation of dental caries and periodontal diseases
- Establish the bidirectional relationship between microbiota and neuroimmunological system
- Mastering the intestine-microbiota-brain axis and all the pathologies generated by its imbalance
- Detail the factors that regulate the type of bacterial flora on the skin
- Use the methods of approach to cutaneous pathologies triggered by
- Describe the main microorganisms causing urinary tract infections and their relationship with the alteration of the microbiota in men and women
- Identify the applicability of probiotics in the prevention of major genitourinary tract infections
- Linking negative modulation in the microbiota to the occurrence of food intolerances and allergies
- Detecting microbiota changes in patients on gluten-free diets
- Analyze the various clinical applications of probiotics and prebiotics in areas such as Urology, Gynecology, Gastroenterology and Immunology



Enroll in this Internship Program to master the use of probiotics as a mechanism to prevent genitourinary tract infections"

04

Educational Plan

This Internship Program is developed through a hospital stay of 120 hours in a first level center, from Monday to Friday, with consecutive days of 8 hours with an attending physician. During this phase, the student will have the opportunity to practice with real patients, applying the knowledge acquired in the theoretical part in their professional performance.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare care in areas and conditions that require highly qualified professionals, and are oriented towards specific expertise for practicing the activity, in a safe environment for the patient and with highly professional performance.

This is an ideal opportunity to acquire new medical skills in a practical way, working in a prestigious hospital, where the application of the most advanced and updated diagnostic and therapeutic treatments are the key to provide quality service to each patient.

The practical teaching 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 the professors and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for medical practice (learning to be and learning to relate).





The procedures described below will form the basis of the practical part of the training, and their completion is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:

Module	Practical Activity
Intestinal Microbiota	Treat problems in a patient's intestinal microbiota caused by dietary or lifestyle failures
	Carry out the treatment of different intestinal infections caused by viruses, bacteria or parasites, using medical strategies based on the latest scientific evidence
Skin Microbiota	Diagnose a skin disease that has resulted from an imbalance in the patient's bacterial flora
	Treat a skin pathology triggered by the most avant-garde methods
Relationship between intolerances/allergies and microbiota	Refining the diet of patients with dairy product intolerance
	Administering probiotics and prebiotics to support microbiota recovery in patients with gluten intolerance
Probiotics and prebiotics	Tailor probiotic therapy to the patient, taking into account special situations such as pregnant women or people with diabetes
	Perform probiotic treatment for patients with various urological or gynecological problems
	Care for the elderly, using probiotics and prebiotics as a method of prevention of various diseases



Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential"

05

Where Can I Do the Internship Program?

TECH has selected a wide range of centers in which to carry out this Internship Program, with the primary objective of ensuring that all students can study in a hospital that fully meets their professional expectations and allows them to enhance their medical skills.

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Take this Internship Program in a hospital with state-of-the-art technology and top quality human resources”





The student will be able to do this program at the following centers:



Policlínico HM Imi Toledo

Country	City
Spain	Toledo

Address: Av. de Irlanda, 21, 45005, Toledo

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation



Biosalud Day Hospital

Country	City
Spain	Zaragoza

Address: Residencial Paraíso, 9, 50008 Zaragoza

Center for Integrative and Biological Medicine with a holistic approach.

Related internship programs:

- English for Nursing
- Nursing in Integrative Medicine

06

General Conditions

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. 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, this entity 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 of the Internship Program

The general terms and conditions of the internship program agreement shall be as follows:

1. TUTOR: 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, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

3. ABSENCE: If the students does not show up on the start date of the Internship Program, they will lose the right to it, 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 Internship Program will receive a certificate accrediting their stay at the center.

5. EMPLOYMENT RELATIONSHIP: The Internship Program shall not constitute an employment relationship of any kind.

6. PRIOR EDUCATION: Some centers may require a certificate of prior education for the Internship Program. 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 Internship Program 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 student with all the necessary information to facilitate the procedures in any case.

07 Certificate

This **Internship Program in Human Microbiota** contains the most comprehensive and up-to-date program in the professional and academic landscape.

After the student has passed the assessments, they will receive their corresponding **Internship Program** Certificate issued by TECH Technological University via tracked delivery*.

The certificate issued by TECH will state the score obtained in the test.

Program: **Internship Program in Human Microbiota**

Duration: **3 weeks**

Attendance: **Monday to Friday, 8-hour shifts, consecutive shifts**

Total Hours: **120 h. of professional practice**





Internship Program
Human Microbiota

Internship Program

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A close-up, low-angle shot of a microscope's objective lens, which is in sharp focus. The lens is metallic and has text engraved on it: "SDX10.40", "N PLAN", and "10.1710". A thin green ring is visible around the lens. The background is blurred, showing other parts of the microscope and a light-colored surface. The image is overlaid with a blue geometric shape on the left and a white diagonal line on the right.

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