



Pathological Anatomy. Fundamental Aspects

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 7 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/pathological-anatomy-fundamental-aspects

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 $\begin{array}{c|c} 01 & 02 \\ \hline & & \text{Objectives} \\ \hline & & & \\ \hline & & \\ \hline$ 

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Multidisciplinary care is essential for the treatment and diagnosis of oncological disease. The coordinated intervention of several professionals specialized in different areas such as psychology, nursing, pathology, surgery, oncology, among others, improves the patient's experience and is the backbone of the model of excellent oncological care. It is also necessary to update the knowledge of all professionals involved. In this sense, this Postgraduate Certificate in Pathological Anatomy will provide the necessary knowledge from the hand of leading experts in the field.



# tech 06 | Introduction

Cancer patients are highly complex medical patients who require the attention and coordination of different health professionals (nurses, psychologists, pathologists, surgeons, oncologists, among others). They must work together towards establishing the most appropriate approach and treatment of the neoplasm, as well as all the secondary pathologies that may appear during the course of the disease. For this reason, multidisciplinary care is now considered a parameter of quality, better patient experience, and a cornerstone of the model of excellent cancer care.

Professionals in the oncology field are faced with the need for an approach in the updating of knowledge, techniques and cutting-edge treatments that allow them to offer the most effective service based on the real needs of each patient.

This program in Pathological Anatomy. Fundamental Aspects provides the possibility of developing the competencies, skills and abilities that are conducive to the performance of the profession, generating greater added value for the practitioner.

The program, designed by prestigious professionals in the specialty of anatomy and pathology, is focused on practicality and the presentation of real cases based on the years of experience that professionals have had throughout their careers. Students will also have access to material developed and taught by an International Guest Director. A great opportunity to learn first hand about the advances, techniques and treatments that have been developed in recent times.

This Postgraduate Certificate in Pathological Anatomy. Fundamental Aspects contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of dozens of practical cases presented by experts in Anatomic Pathology.
   Fundamental Aspects
- Its graphic, schematic and practical contents are designed to provide scientific and practical information on those disciplines that are essential for professional practice
- The latest news on Anatomic Pathology. Fundamental Aspects
- Practical exercises where the self-assessment process can be carried out to improve learning
- Special emphasis on innovative methodologies in anatomical pathology Fundamental Aspects
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- The availability of the contents from any fixed or portable device with an Internet connection



Specialize in pathological anatomy with this program that includes 10 Masterclasses provided by a renowned international expert"



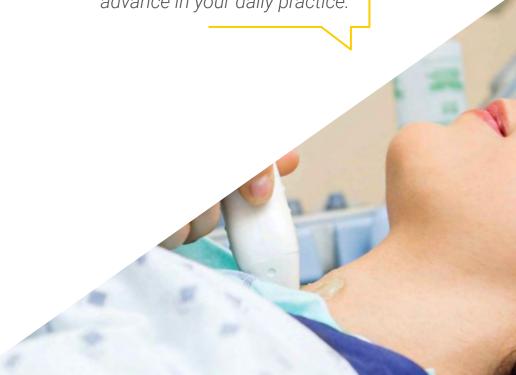
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 education programmed to learn 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 professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

Increase your professional performance by knowing the carcinogenic capacity of some toxic substances found in food.

Do not miss the opportunity to study this Postgraduate Certificate and you will advance in your daily practice.







# tech 10 | Objectives



# **General Objectives**

- Introduce professionals in the use and management of medical technology
- Perform an adequate interpretation of the data obtained in the tests
- Improve their daily work with the use of the latest advances available in oncologic treatment



Identify the primary role of oncogenes in the genesis of cancer by directing mechanisms that lead to the development of neoplasms"



# **Specific Objectives**

- Recognize the characteristics of malignant neoplasms, their classification, according to their histogenesis, as well as aspects related to their biological behavior
- Acquire up-to-date knowledge on cancer epidemiological data worldwide
- Learn about screening methods in at-risk populations to diagnose cancerous lesions early
- Recognize the susceptibility genes involved in breast, lung, thyroid, colon, skin, bone, pancreatic, and neuroblastoma cancers, and by what mechanism they participate in tumorigenesis
- Recognize the environmental and occupational factors (mutagenic agents) that are directly and indirectly involved in cancer, and the carcinogenic capacity of some toxic substances found in food
- Relate DNA and RNA viruses known to cause cancer in humans
- Expose the mechanisms by which viruses are able to subjugate the normal activity
  of host cytoplasmic proteins, affecting key points in the control of the cell cycle,
  cell growth and differentiation, causing severe alterations in cell growth and cancer
  development
- Recognize the role of H. pylori bacteria in the pathogenesis of gastric cancer
- Understand cancer as a genetic disease resulting from mutations that accumulate in genes that are critical for the growth and development of somatic cells
- Describe the genes associated with cancer, and the importance of DNA analysis to identify individuals, detect predisposing gene polymorphisms, analyze mutations, and establish the diagnosis of cancer as a genetic disease
- Know the symptoms and signs that are most frequently related to cancer, as well as the different systems for the staging of tumor disease and their importance

- Know the phases of the cell cycle, the critical control points, as well as the genes involved in its regulation
- Explain the positive and negative feedback regulatory processes that contribute to cell cycle progression, and the significance of negative controls on cell cycle progression that are present during development, differentiation, senescence, and cell death, which play an important role in preventing tumorigenesis
- Identify the difference in gene expression between normal tissue and tumor tissue.
- Know the stages involved in the transformation of a normal cell to a malignant cell
- Recognize the malignant phenotype as the result of a characteristic pattern of gene expression, alterations in the function of the human genome, leading to aberrant growth, dedifferentiation, invasion and metastasis
- Characterize the different genes involved in cell cycle regulation (growth-promoting genes, growth-inhibiting genes, genes that regulate apoptosis and genes that repair damaged DNA), and the mutations that alter them
- Explain the key role that oncogenes may play in the development of cancer by directing mechanisms that lead to the development of neoplasms
- Know tumor suppressor genes as cytoplasmic components capable of reversing the tumor phenotype; proteins that control the cell cycle, proliferation, and differentiation
- Identify epigenetic aberrations (DNA methylation with silencing of gene expression, and histone modifications that can enhance or dampen expression), which contribute to the malignant properties of cells
- Recognize the role of epigenetic changes in malignant phenotype, including gene expression, control of differentiation, and sensitivity and resistance to anticancer therapy

- Know the genes and proteins associated with malignant diseases and their utility as tumor
  markers to define a particular entity, its diagnosis, staging, prognosis, and screening in the
  population
- Know and apply the different technologies used to analyze the gene expression profile
  of neoplasms to identify clinical and biological aspects that are difficult to determine by
  histopathological examination. Its principles, advantages, and disadvantages
- Explain the importance of gene expression profiling for the application of different treatment protocols and the response to them among histologically similar tumors
- Recognize the importance of gene expression profiling in the new classifications of malignant tumors associated with prognosis and response to treatment





# tech 14 | Course Management

### **International Guest Director**

With more than 4 decades of professional career in the area of Pathology, Dr. Ignacio Wistuba is considered an international reference in this complex medical field. This prestigious researcher heads the Department of Translational Molecular Pathology at MD Anderson Cancer Center. He is also Director of the Khalifa Institute for Cancer Personalization, linked to the University of Texas.

In parallel, he directs the Biorepository and Pathology Core Network at the Eastern Cooperative Oncology Group and the Institutional Tissue Bank. He is also Director of the Biorepository and Pathology Core Network at the Eastern Cooperative Oncology Groupin conjunction with the American College of Radiology Imaging Network (ECOG-ACRIN).

One of the main lines of work of this pathologist in recent years has been Genomic and Precision Medicine. His multiple investigations in this field have allowed him to address the origin and complexities of different types of tumors, their incidence and their relationship with specific characteristics of the DNA of individuals. Specifically, he has delved into these issues in relation to lung neoplasms.

On the other hand, Wistuba maintains active research collaborations with other specialists from different parts of the world. An example of this is his participation in an exploratory analysis of cytokine levels in pleural fluid associated with immunotherapeutic protocols with the University of Desarrollo in Chile. He is also a member of global teams that, orchestrated by the Australian Royal Prince Alfred Hospital, have investigated different predictive biomarkers of lung cancer.

Likewise, the pathologist has sustained a continuous training since his initial studies in distinguished Chilean universities. Proof of this are his postdoctoral research stays at renowned institutions such as Southwestern Medical Center and Simmons Cancer Center in Dallas.



# Dr. Wistuba, Ignacio

- Chairman of the Department of Molecular Pathology, MD Anderson Cancer Center, Houston USA
- Director of the Division of Pathology/Medicine Laboratory at MD Anderson Cancer Center
- Specialized Pathologist in the Department of Thoracic/Head and Neck Medical Oncology at the University of Texas
- Director of the UT-Lung SPORE Tissue Bank
- Lung Cancer Pathologist for the Lung Cancer Committee at Southwestern Oncology Group (SWOG)
- Main Researcher on several studies conducted by the Cancer Prevention and Research Institute of Texas
- Main Researcher of the Translational Genomics and Precision Cancer Medicine Training Program at NIH/NCI
- Postdoctoral Fellow at the Hamon Center for Therapeutic Oncology Research Center

- Post-doctorate at Southwestern Medical Center and Simmons Cancer Center
- · Pathologist at the Catholic University of Chile
- · Medical Graduate at the Austral University of Chile
- Member of: Academy of American and Canadian Pathologists, Society for Cancer Immunotherapy, American Society of Clinical Oncology, American Society for Investigative Pathology, American Association for Cancer Research, Association for Molecular Pathology and Society for Pulmonary Pathology



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

# Management



# Dr. Rey Nodar, Severino

- Chief of the Anatomic Pathology Department of the UCV University Hospita
- · President of the Spanish Foundation for Training and Research in Biomedical Sciences and Oncological Pathology
- Editor-in-Chief of international journals on Cancer and Tumors
- Author of several scientific publications on Oncopathology
- Chief Editor of Journal of Cancer and Tumor international
- Doctor from Bircham International University

# **Professors**

### Dr. Rubio Fornés, Abel

- Mathematics, Statistics and Business Process Management Specialist
- Manager and Partner of Chromemotion
- Freelance Programmer in several institutions
- Statistics Collaborator in Biostatistics at The Queen's Research Institute
- Doctor in Mathematics and Statistics from the University of Valencia
- Degree in Mathematics from the University of Valencia
- Master's Degree in Business Process Planning and Management from the University of Valencia

# Dr. Abreu Marrero, Aliette Rosa

- Imaging and Radiology Specialist
- Imaging Specialist at the Private Hospital of Maputo, Lenmed
- Professor of Radiology at the University of Medical Sciences of Camaguey
- Publication: Report of an atypical case of open-lipped schizencephaly

# Dr. Soto García, Sara

- Specialist in Pathological Anatomy at the Torrevieja University Hospital
- Specialist at the University Hospital of Vinalopó
- Member of: Spanish Society of Pathological Anatomy

#### Dr. Buendía Alcaraz, Ana

- Specialist in Pathological Medicine at the General University Hospital of Santa Lucía de Murcia
- Specialist of the Anatomic Pathology Service of the General University Hospital of Los Arcos del Mar Menor in Murcia
- Degree in Medicine from the University of Murcia
- Master's Degree in Human Molecular Biology from the Catholic University San Antonio of Murcia (UCAM)

#### D. Ballester Lozano, Gabriel

- Specialist in Molecular Biology in the Anatomical Pathology Service of the Ribera Salud Group
- Molecular Biologist at the Vinalopó University Hospital
- Molecular Biologist at the University Hospital of Torrevieja
- Degree in Marine Sciences and Orientation in Living Resources from the University of Alicante
- Master's Degree in Analysis and Management of Mediterranean Ecosystems from the University of Alicante
- Master's Certificate in Compulsory High School Education Teaching from the University of Alicante

### Dr. Aldecoa Ansorregui, Iban

- Member of the Pathology and Neuropathology Unit at the Hospital Clinic of Barcelona
- Neuropathologist and Neurologist at the August Pi i Sunyer Biomedical Research Institute
- Pathologist at the Sant Joan de Déu Maternity and Infant Hospital, Barcelona
- Medical Observer at the Surgical Neuropathology Unit, Johns Hopkins Hospital Baltimore, Maryland Area
- Doctor of Philosophy PhD, Medicine and Translational Research
- Doctor of Medicine, UPV/EHU

#### Dr. Machado, Isidro

- Specialist in Pathological Anatomy at the Valencian Institute of Oncology Foundation (IVO)
- Specialist in the Pathology Department of Hospital Quirónsalud Valencia
- Doctor of Medicine from the Higher Institute of Medical Sciences of Villa Clara
- Expert in Soft Tissue Pathology and Sarcomas

### D. Archila Sanz, Iván

- Specialist in Anatomic Pathology at the Hospital Clinic of Barcelona
- Author of several national and international specialized publications
- Degree in Medicine from the Complutense University of Madrid

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### Dr. Fernández Vega, Iván

- Director of the Principality of Asturias Brain Bank at the Central University Hospital of Asturias
- Specialist in General Pathology and Neuropathology at the University Hospital of Araba
- Coordinator of the Brain Bank of the University Hospital of Araba
- Researcher at the University Institute of Oncology (IUOPA)
- Doctor of Medicine, University of Oviedo
- Specialty in Histopathology at the Central University Hospital of Asturias

### Dr. Sua Villega, Luz Fernanda

- Director of several pathology laboratories at the University Hospital Valle del Lili Foundation
- Director of the Pulmonary and Mediastinal Pathology, Lung Transplant Pathology and Rapid Room Evaluation (ROSE) Laboratories at the University Hospital Valle del Lili Foundation
- Medical Director of the Special Hematology and Hemostasis Service of the University Hospital Valle del Lili Foundation
- PhD in Biomedical Sciences with emphasis in Solid Tumor Genomics from the University of Valle
- Specialist in Anatomic Pathology and Clinical Pathology, University of Valle del Cauca
- Postgraduate degree in Medical Genetics from the University of Valencia
- Member of: Colombian Association of Pathology (ASOCOLPAT), Colombian Association of Mastology (ACM), American Thoracic Association (ATS), Latin American Thoracic Association (ALAT) and International Association for The Study of Lung Cancer (IASLC)

# Dr. Sansano Botella, Magdalena

- Specialist in the Pathological Anatomy Service of the Vinalopó University Hospital
- Degree in Criminology at the Alicante University
- Specialist Technician in Pathological Anatomy by the University of Alicante

#### Dr. Serrano Jiménez, María

- Specialist in the Pathological Anatomy Service of the Hospital del Vinalopó
- Tutor in the Pathology Anatomy Service of the Vinalopó Hospital
- Degree in Medicine and Surgery

### Dr. Cuatrecasas, Miriam

- Specialist in Anatomic Pathology at the Hospital Clinic of Barcelona
- Expert and Consultant in Gastrointestinal Pathology
- Coordinator of the Digestive Pathology SEAP working group
- Coordinator of the Tumor Bank Network of Catalonia (XBTC) and the Tumor Bank of the Hospital Clinic-IDIBAPS
- IDIBAPS researcher
- Doctor in Medicine and Surgery from the Autonomous University of Barcelona
- Degree in Medicine and Surgery, Autonomous University of Barcelona
- Specialty in Anatomic Pathology at the Santa Creu i Sant Pau Hospital

#### Dr. Camarasa Lillo, Natalia

- Medical Specialist in Anatomic Pathology
- Specialist in Pathological Anatomy at the General University Hospital of Castellón
- Specialist in Pathological Anatomy at the University Hospital Doctor Peset
- Author of several national and international specialized publications

#### Dr. Rojas, Nohelia

- Specialist in Pathological Anatomy at the Dr. Peset University Hospital in Valencia
- Specialist in Pathological Anatomy at the Vinalopó and Torrevieja university hospitals
- Specialist in Pathological Anatomy at the University Hospital of Donostia-San Sebastián
- PhD in Tumor Pathology
- Degree in Pathological Anatomy from the University of Carabobo
- Specialty in Pathological Anatomy at La Fe University Hospital in Valencia
- Master's Degree in Pathological Anatomy for Pathologists

### Dr. Barbella, Rosa

- Specialist in Pathological Anatomy at the General University Hospital of Albacete
- Expert in Breast Pathology
- Tutor of Resident Doctors at the Faculty of Medicine of the University of Castilla-La Mancha
- Doctor in Medicine from the University of Castilla-La Mancha

#### Dr. Ortiz Reina, Sebastián

- Specialist in Anatomic Pathology at the Clinical Analysis and Anatomic Pathology Laboratory of Cartagena
- Associate Professor of Health Sciences in the subject: Pathological Anatomy at the Complutense University of Madrid
- University Professor in the subject: Histology and Cell Biology at the University School of Nursing of the University of Murcia
- University Professor of Internships for students in the Medical School of the Catholic University of Murcia
- Anatomic Pathology Residents' Tutor of the Cartagena University Hospital Complex
- University Specialist in Electron Microscopy by Madrid Complutense University
- University Specialist in Dermatopathology at Alcalá de Henares University

### Dr. Labiano Miravalles, Tania

- Pathologist at the Navarra Hospital Complex
- Degree in Medicine from the University of Navarra
- Cytology Expert

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### Dr. Ribalta, Teresa

- Pathologist and Neuropathologist at Hospital Clínic de Barcelona and at IDIBAPS
- Specialist in Neuropathology
- Head of the Department of Pathology and Director of the Biobank at Hospital Sant Joan de Déu
- Head of the Pediatric Pathology Section at Hospital Clínic de Barcelona
- Professor and Professor of Pathological Anatomy, University of Barcelona
- Degree in Medicine from the University of Barcelona

### Dr. Villar, Karen

- Head of the High Resolution Consultation by Ultrasound-guided Puncture at the Henares University Hospital
- Coordinator of the Interventional Pathology Working Group of the SEAP
- Degree in Medicine from the Central University of Venezuela
- Specialty in Pathological Anatomy at the University Hospital of La Princesa in Madrid
- USFNA Ultrasound-Guided Fine-Needle Aspiration Certificate Recognition

### Dr. García Yllán, Verónica

- Specialist in Anatomical Pathology in the Murcian Health Service
- Specialist in Anatomy and Pathology
- Master's Degree in Medicine and Education
- Degree in Medicine and Surgery





Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"







# tech 24 | Structure and Content

# Module 1. Cancer General Aspects. Risk Factors

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1.1.1. Overview of Malignant Neoplasms

1.1.1.1. Nomenclature

1.1.1.2. Features

1.1.1.3. How Metastases Spread

1.1.1.4. Prognostic Factors

1.1.2. Epidemiology of Cancer

1.1.2.1. Incidence

1.1.2.2. Prevalence

1.1.2.3. Geographical Distribution

1.1.2.4. Risk Factors

1.1.2.5. Prevention

1.1.2.6. Early Diagnosis

1.1.3. Mutagenic Agents

1.1.3.1. Environmental

1.1.3.2. Work

1.1.3.3. Toxic Substances in Food

1.1.4. Biological Agents and Cancer

1.1.4.1. RNA Virus

1.1.4.2. DNA Virus

1.1.4.3. H. Pylori

1.1.5. Genetic Predisposition

1.1.5.1. Genes Linked to Cancer

1.1.5.2. Susceptibility of Genes

1.1.5.2.1. Breast Tumors

1.1.5.2.2. Lung Tumors

1.1.5.2.3. Thyroid Tumors

1.1.5.2.4. Colon Tumors

1.1.5.2.5. Skin Tumors

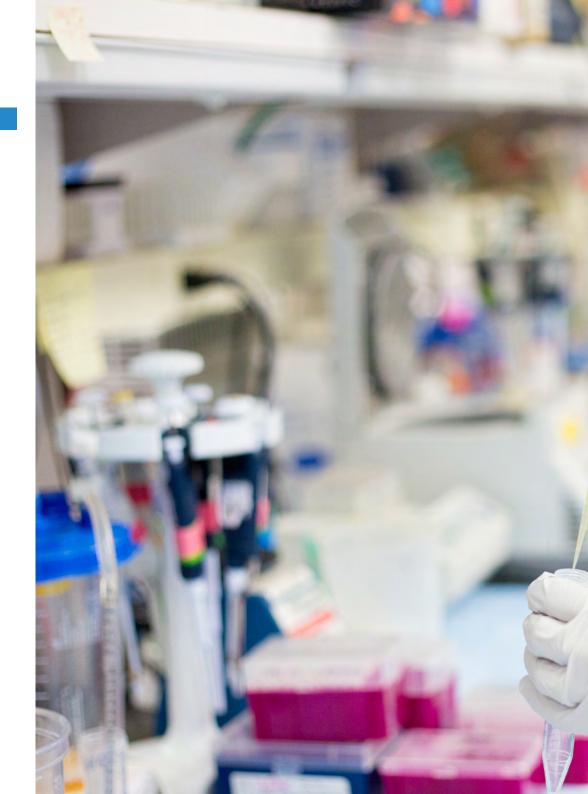
1.1.5.2.6. Bone Tumors

1.1.5.2.7. Pancreatic Tumors

1.1.5.2.8. Neuroblastoma

1.1.6. Clinical Aspects of Malignant Neoplasms

1.1.7. Staging of Neoplastic Disease



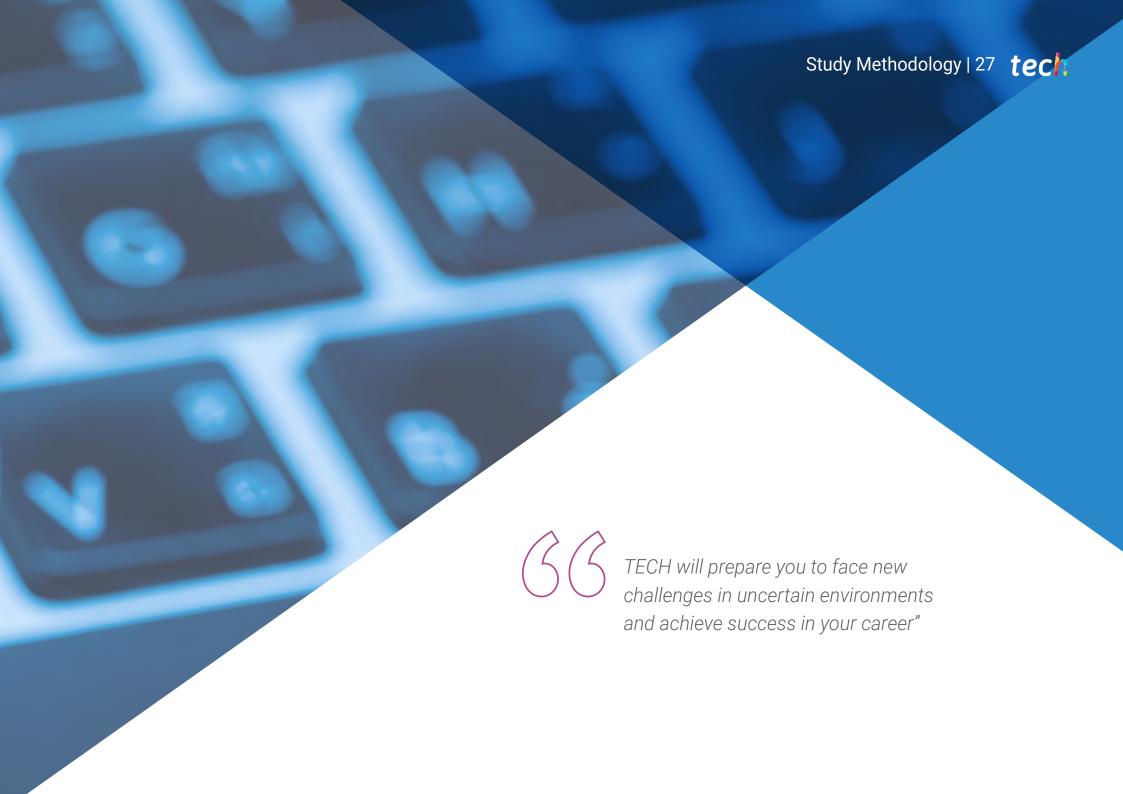


# Structure and Content | 25 tech

# Module 2. Molecular Basis of Cancer

- 2.1. Introduction to the Molecular Basis of Cancer
  - 2.1.1. Genes and the Genome
    - 2.1.1.1. The Main Cell Signaling Pathways
    - 2.1.1.2. Cell Growth and Proliferation
    - 2.1.1.3. Cell Death Necrosis and Apoptosis
  - 2.1.2. Mutations
    - 2.1.2.1. Types of Mutations Frameshift; Indels, Translocaciones, SNV; Missense, Nonsense, CNV, Driver vs. Passenger
    - 2.1.2.2. Mutagens
    - 2.1.2.2.1. Biological Agents and Cancer
    - 2.1.2.3. Mutation Repair Mechanisms
    - 2.1.2.4. Mutations with Pathological and Non-Pathological Variants
  - 2.1.3. Major Advances in Precision Medicine
    - 2.1.3.1. Tumor Biomarkers
    - 2.1.3.2. Oncogenes and Tumor Suppressor Genes
    - 2.1.3.3. Diagnostic Biomarkers
      - 2.1.3.3.1. Resistance
      - 2.1.3.3.2. Prognosis
      - 2.1.3.3.3. Pharmaco-Genomics
    - 2.1.3.4. Cancer Epigenetics
  - 2.1.4. Main Techniques in the Molecular Biology of Cancer
    - 2.1.4.1. Cytogenetics and FISH (Fluorescence In Situ Hybridization
    - 2.1.4.2. DNA Extract Quality
    - 2.1.4.3. Fluid Biopsy
    - 2.1.4.4. PCR as a Basic Molecular Tool
    - 2.1.4.5. Sequencing, NGS



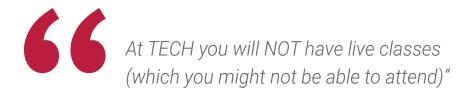


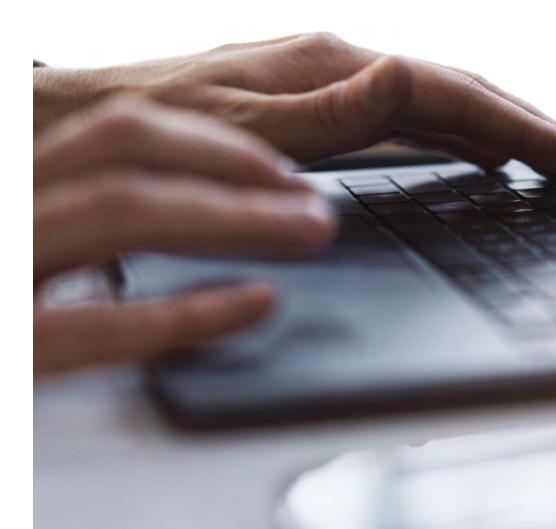
# The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.







# The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabithat not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

# tech 30 | Methodology

#### Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



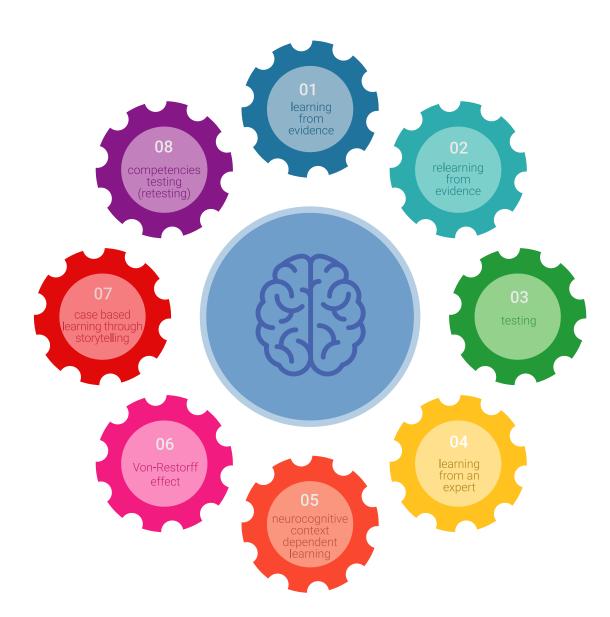
# Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning 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.





# A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

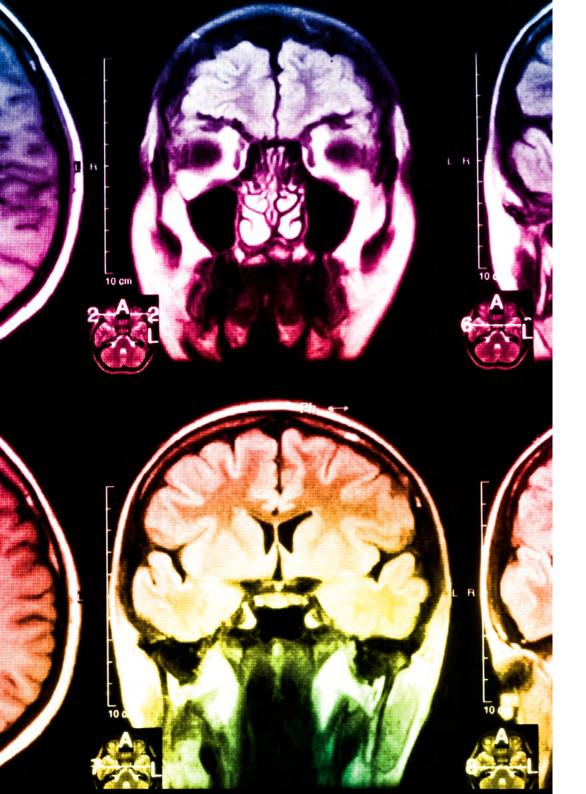
Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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

- 1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
- 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. 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.



# The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the quality of teaching, quality of materials, course structure and objectives is excellent. Not surprisingly, the institution became the best rated university by its students on the Trustpilot review platform, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

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As such, the best educational materials, thoroughly prepared, will be available in this program:



## **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.

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.



# **Practicing Skills and Abilities**

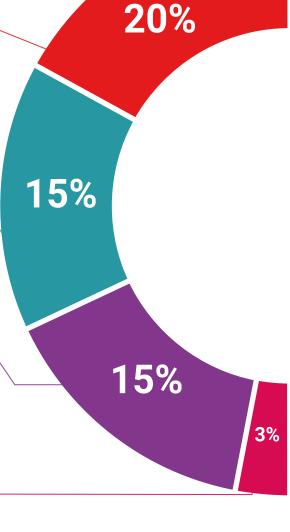
You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### **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 exclusive educational system for presenting multimedia content 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 education.

#### **Case Studies**

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

### **Testing & Retesting**



We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

### Classes



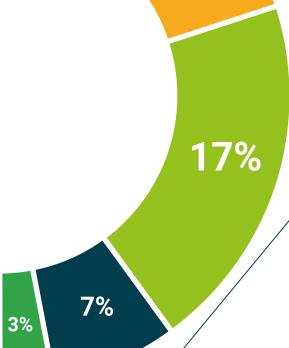
There is scientific evidence suggesting that observing third-party experts can be useful.

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

#### **Quick Action Guides**



TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.







# tech 38 | Certificate

This private qualification will allow you to obtain a **Postgraduate Certificate in Pathological Anatomy. Fundamental Aspects** 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** private qualification 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 Pathological Anatomy. Fundamental Aspects

Modality: online

Duration: 6 weeks

Accreditation: 7 ECTS



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

#### Postgraduate Certificate in Pathological Anatomy, Fundamental Aspects

This is a private qualification of 210 hours of duration equivalent to 7 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.



# Postgraduate Certificate Pathological Anatomy. Fundamental Aspects

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 7 ECTS
- » Schedule: at your own pace
- » Exams: online

