



## Postgraduate Certificate

## Neurodegenerative Ataxias

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/neurodegenerative-ataxias

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## tech 06 | Introduction

The aging of the population is causing the prevalence of this type of disease to become very relevant. Adequate management, early detection and symptomatic and extended treatment are essential to achieve the best prognosis.

In this Postgraduate Certificate you will go through the fundamental aspects for the management of the same. From the differential diagnosis to the appropriate treatment in each case to knowing how to recognize ataxic syndromes versus other syndromes.

To this end, it will cover in depth the recognition of early signs and symptoms in the disorders, including the study of the genetic basis of the Neurodegenerative Ataxias.

The Postgraduate Certificate in Neurodegenerative Ataxias aims to train with rigor, teach with precision and provide ways of improvement so that the student is able to lead realistic care and teaching programs in the specific area of their professional competencies.

This **Postgraduate Certificate in Neurodegenerative Ataxias** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Development of a Large Number of Case Studies Presented by Experts
- Graphic, schematic, and highly practical contents
- The latest developments and cutting-edge advances in this area
- Practical exercises where the self-evaluation process can be carried out to improve learning
- Innovative and highly efficient methodologies
- 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



This Postgraduate Certificate is the best investment you can make to acquire the best and most up-to-date training in Neurodegenerative Ataxias"



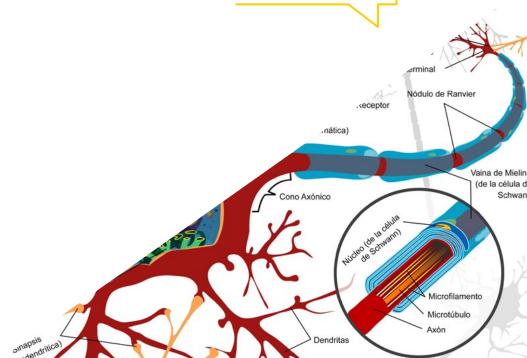
The latest advances in the area of Neurodegenerative Ataxias compiled in a highly efficient Postgraduate Certificate, which will optimize your effort with the best results"

The development of this program is focused on practicing the proposed theoretical learning Through the most effective teaching systems, proven methods imported from the most prestigious universities in the world, you will be able to acquire new knowledge in a practical way. In this way, we strive to convert your efforts into real and immediate competencies.

Our online system is another strength of our training program. With an interactive platform that takes advantage of the latest technological developments, TECH offers you the most interactive digital tools. This way, we can offer you a learning method that can be completely adapted to your needs, so that you can perfectly combine this training program with your personal or professional life.

All the necessary methodology for the professional, in a high-impact, specific and concrete Postgraduate Certificate"

A training program created to allow you to implement your acquired knowledge into your daily practice in an almost immediate way"







## tech 10 | Objectives



## **General Objective**

- Know the most modern findings in the genetic and proteomic alterations of these diseases, as well as in the translational neurology that have produced these findings
- Acquire the appropriate and most effective tools, to recognize the clinical picture, interpret the findings of complementary tests and appropriately treat patients with neurodegenerative diseases



An opportunity created for professionals looking for an intensive and effective Postgraduate Certificate in Neurodegenerative Ataxias, with which to take a significant step in the practice of their profession"







## **Specific Objectives**

#### Module 1. Neurodegenerative Ataxias

- Update knowledge of the genetic basis of neurodegenerative ataxias and its implication for classification
- Recognize the specific clinical markers of neurodegenerative ataxias
- Recognize inheritance patterns of these ataxias in order to provide better genetic counseling
- Know how to recognize ataxic syndromes with other clinical and genetic load components
- Update the clinical management of these patient







## tech 14 | Course Management

#### Management



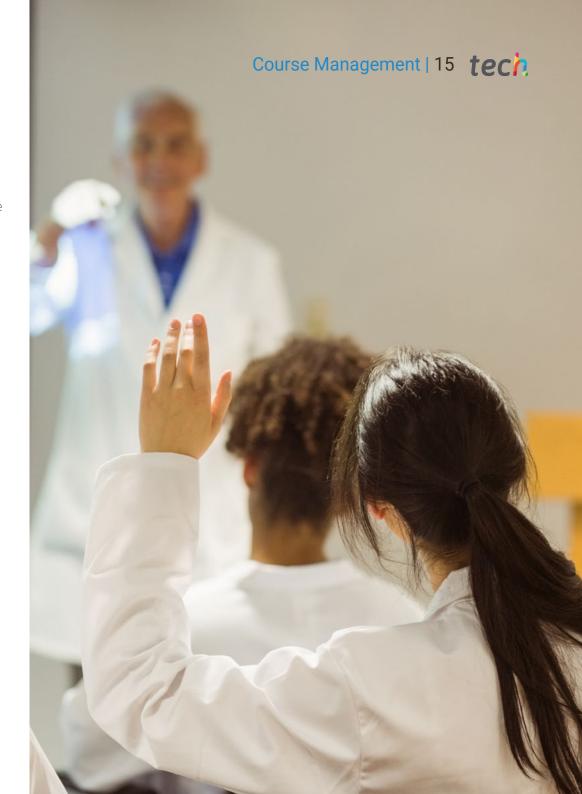
#### Dr. Yusta Izquierdo, Antonio

- Degree in medicine and surgery in 1985 from the Faculty of Medicine of the Autonomous University of Madrid Obtained 5 passes, 16 Bs, 7 As, and 4 As with honors during the course of the course
- Bachelor's degree in medicine and surgery with the grade of outstanding, after the completion of the thesis "Plasmapheresis and immunosuppressants in the treatment of myasthenia gravis," in October 1985
- Doctor of Medicine and Surgery Degree from the Faculty of Medicine of the Autonomous University of Madrid with the Doctoral Thesis entitled: "Normal variations of short-, medium- and long-latency auditory evoked potentials Mid- and long-latency evoked potentials in dementia patients" With the qualification of "apto cum laude by unanimous decision" In October 1990
- Specialty in Neurology at the Neurology Service of the Puerta de Hierro Clinic (Dr. Liaño Martínez) between 1987 and 1991
- Coordinator of the Neuromuscular Pathology Unit of the Neurology Service of the Puerta de Hierro Clinic in Madrid, between July 1990 and March 1991
- Specialist in Neurology at the University Hospital of Guadalajara from April 29, 1991 to May 2, 2004
- Head of Neurology at the Integrated Care Management of Guadalajara, the University Hospital of Guadalajara and the Brain Injury Unit of the Institute of Neurological Diseases of Castilla La Mancha since May 3, 2004, a position he still holds today
- Professor of Health Sciences -Profile Neurology- at the Faculty of Medicine of the University of Alcalá, since October 1, 1991, position he currently holds
- Coordinator of the subject "MEDICAL Doctor" of the Sixth Year, Faculty of Medicine of Alcalá, at the University Hospital of Guadalajara; from the academic year 1993-94 to the academic year 2010-1011

#### **Professors**

#### Dr. López Zuazo, Ignacio

- Degree in Medicine and General Surgery from the Faculty of Medicine of the Complutense University of Madrid. Promotion 1984-90
- Specialist in Neurology, with order number 507 in Oct.-91. Specialist in the Neurology Service of the Puerta de Hierro University Clinic in Madrid
- Permanent Statutory Staff as F.E.A. of Neurology in SESCAM
- FEA Neurology: La Mancha-Centro Hospital Complex. Alcázar de San Juan 20/02/1996-31/10/2007
- FEA Neurology: Guadalajara University Hospital. 01/11/2007-present
- Neurology Madrid Group Hospitals, Madrid Norte Sanchinarro 09/01/2009-present
- Outpatient and Inpatient Care Activity in the Neurology Ward
- Experience in the performance and interpretation of neurophysiological tests (conduction studies, EMG, evoked potentials, EEG) and neurosonology (TSA and transcranial echodoppler)







## tech 18 | Structure and Content

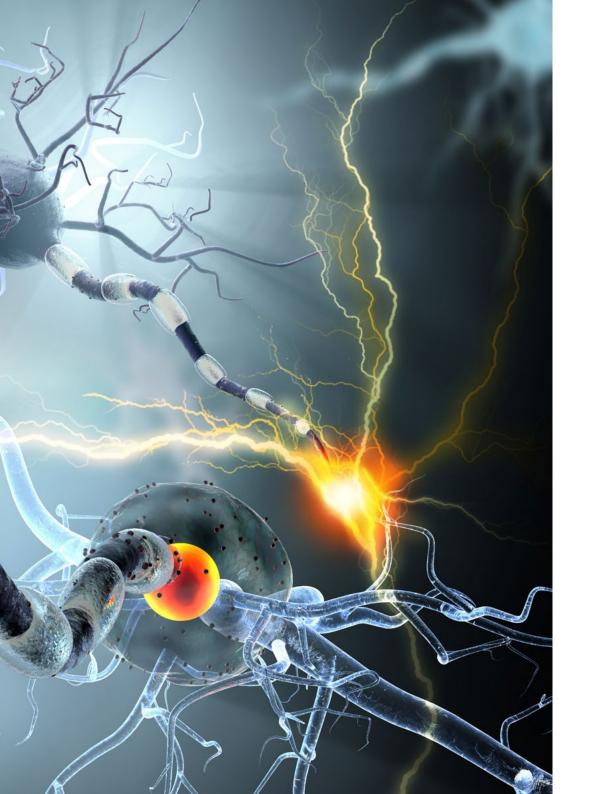
#### Module 1. Neurodegenerative Ataxias

- 1.1. Clinical Approach and Classification of Progressive Cerebellar Ataxias
- 1.2. Autosomal-Dominant Ataxias Genetic Mutations and Genotype-Phenotype Correlation
- 1.3. Autosomal Recessive Ataxias
- 1.4. Episodic Ataxias
  - 1.4.1. Episodic Ataxia Type 1
  - 1.4.2. Episodic Ataxia Type 2
- 1.5. Heredoataxias Associated with Genetic Alterations of Metabolism
- 1.6. Friedreich's Ataxia
- 1.7. Ataxias Secondary to DNA Mutations
- 1.8. Sporadic Progressive Ataxias
- 1.9. Fragile X Syndrome, Tremor, and Mitochondrial Ataxia
- 1.10. Neurological Alterations Secondary to Vitamin E Deficiency





A unique, key, and decisive training experience to boost your professional development"







## tech 22 | Methodology

#### At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

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



According to Dr. 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 power 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 the physician'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:

- Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.





#### **Relearning Methodology**

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

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

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



### Methodology | 25 tech

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

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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.

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

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

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



#### **Study Material**

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

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



#### **Surgical Techniques and Procedures on Video**

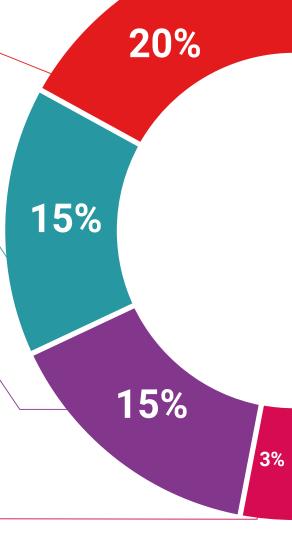
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many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



#### **Interactive Summaries**

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

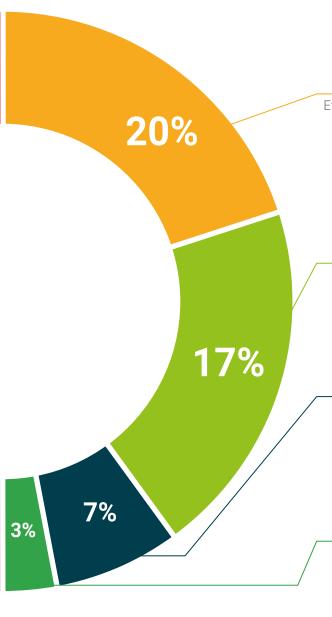
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





#### **Additional Reading**

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



#### **Expert-Led Case Studies and Case Analysis**

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### **Testing & Retesting**

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts.

The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in 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 30 | Certificate

This **Postgraduate Certificate in Neurodegenerative Ataxias** contains the most complete and up-to-date scientific program on the market.

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

This diploma contributes in a relevant way to the development of the continuing education of the professional and provides a high university curricular value to their education, and is 100% valid in all public examinations, professional career and labor exchanges of any Spanish Autonomous Community.

Title: Postgraduate Certificate in Neurodegenerative Ataxias

ECTS: 6

Official No of Hours: 150 h.



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

technological university

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