



Postgraduate Diploma

Neurodegenerative Disease Disorders

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

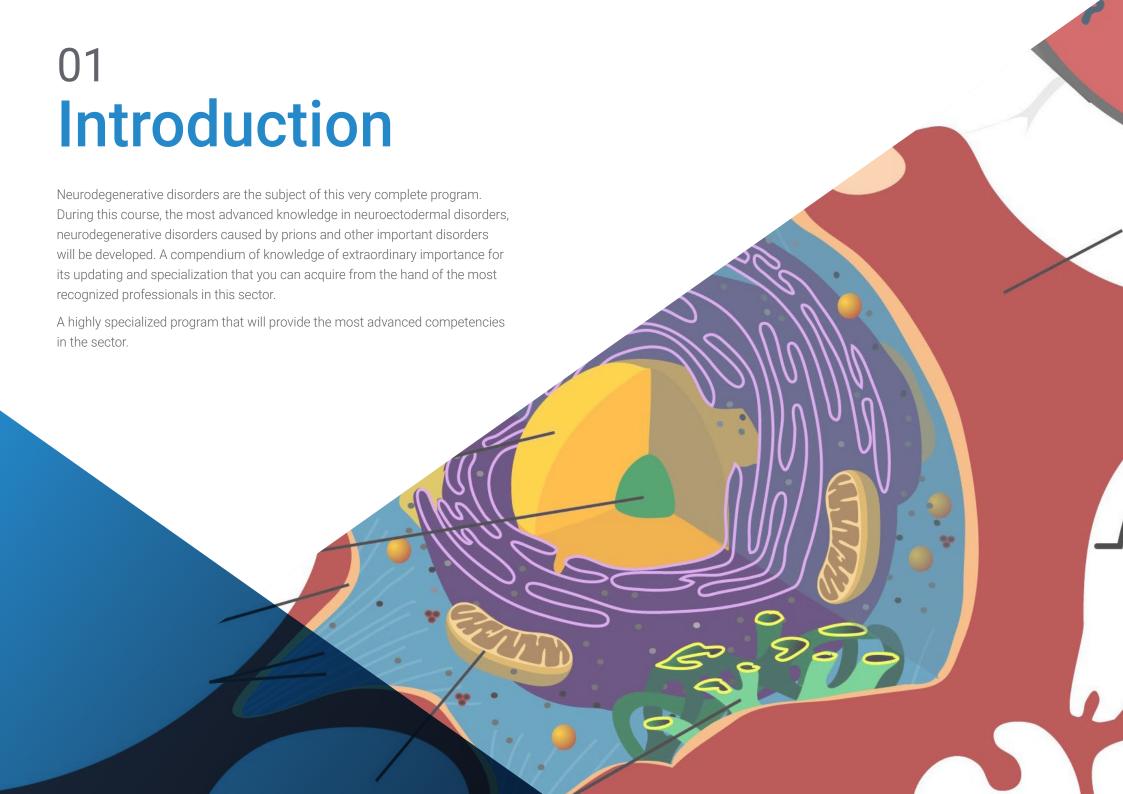
» Exams: online

Website: www.techtitute.com/in/medicine/postgraduate-diploma/postgraduate-diploma-neurodegenerative-disease-disorders

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The diagnosis of not so common Neurodegenerative Diseases involves the implementation of the most specific skills and the most advanced knowledge in this area of intervention

Knowing the mechanisms of neurodegeneration that copper and iron alterations produce is one of the focuses of this high intensity preparatory course.

In this course you will learn how to use the most advanced diagnostic methods in relation to Inflammatory and Vascular Diseases and their influence on Neurodegeneration.

During the program, the recognition of early signs and symptoms of these disorders will be discussed in depth in order to provide early intervention to improve the quality of life of patients.

In this program you will be able to know and learn how to use the most advanced diagnostic methods related to Spongiform Encephalopathies. You will learn how to use genetic analysis and neuroimaging and how to interpret their results.

A very complete review of the Neurodegenerative Disorders caused by Prions that will allow you to make a faster and more accurate intervention in the professional praxis.

In addition, the most frequent and less frequent Neuroectodermal Disorders will be studied, reviewing their clinical manifestations and how to approach them.

The Postgraduate Diploma in Neurodegenerative Disease Disorders aims to prepare 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 Diploma in Neurodegenerative Disease Disorders** 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



With this Postgraduate Diploma you will be able to combine high intensity training with your personal and professional life, achieving your goals in a simple and real way"



The latest advances in the area of Neurodegenerative Disease Disorders compiled in a Postgraduate Diploma of high preparatory efficiency, which will optimize your effort with the best results"

All the necessary methodology for the professional, in a high impact, specific and concrete Postgraduate Diploma.

The development of this Postgraduate Diploma is focused on the practice of 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 skills.

Our online system is another of the strengths of our training course. With an interactive platform that has the advantages of the latest technological developments, we put the most interactive digital tools at your service. In this way we can offer you a totally adaptable way of learning for your own specific needs, so you can combine this specialization perfectly with your personal and professional life.

implement the knowledge that you acquire almost immediately in your daily practice.

A program designed to allow you to





tech 10 | Objectives

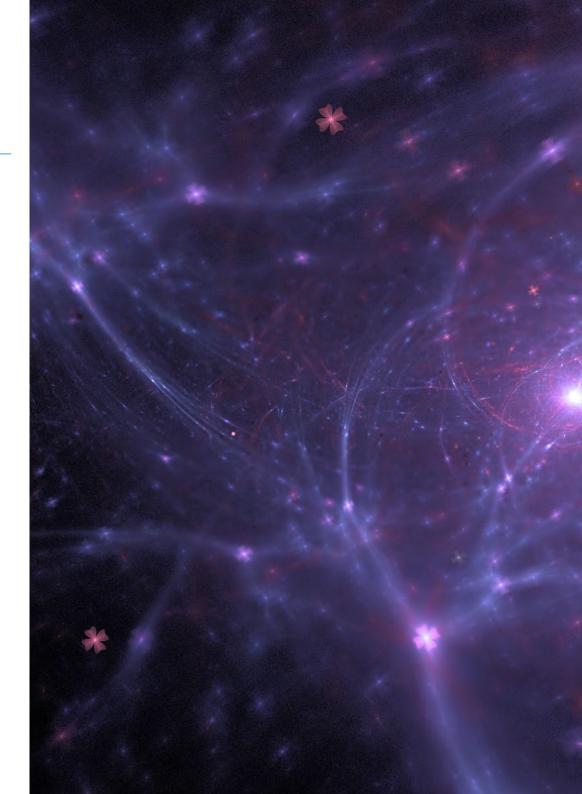


General Objectives

- 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 who are looking for an Intensive and Effective Course, with Which to take a Significant Step in the Practice of their Profession"





Specific Objectives

Module 1. Neuroectodermal Neurodegenerative Disorders

- Recognize the most frequent neuroectodermal disorders, their different genetic and proteomic bases
- Update the treatment of its different clinical manifestations
- Know how to recognize other less frequent neuroectodermal disorders
- Evaluate the prognosis of these pathologies according to the appearance of their alterations

Module 2. Neurodegenerative Disorders Caused by Prions

- Expand the diagnostic capacity of Spongiform Encephalopathies and recognize the different clinical manifestations of these diseases
- Update the genetic basis of these diseases and their implications for possible future treatments
- Know how to manage the symptoms of these diseases to improve the quality of life of patients
- Improve the knowledge of the different diagnostic tools for Prion Diseases

Module 3. Other Neurodegenerative Disorders

- * Know other Neurodegenerative Diseases that are difficult to classify
- Know the mechanisms of neurodegeneration caused by alterations in the metabolism of copper and iron
- Update on the relationship between neurodegeneration and inflammatory and vascular diseases







International Guest Director

Dr. Adriano Aguzzi is a leading specialist at European and international level, holding the position of director of the Swiss National Reference Center for Prion Diseases. From this institution, he delves into the diagnosis of Transmissible Spongiform Encephalopathies and develops his own therapeutic methods to address these pathologies from the thorough study of the immunological and molecular basis.

Aguzzi's greatest scientific achievements are related to the discovery of the pathways by which prions reach the central nervous system through genetic manipulation of mice in vivo. In addition, his laboratory is committed to the development of state-of-the-art tissue clarification technologies with which microscopic images of complete rodent brains are obtained for 3D reconstruction with maximum precision. These techniques are promising for the academic community, allowing the characterization of vascular phenotypes in the context of stroke and neurodegenerative diseases such as Alzheimer's or Parkinson's disease.

Among his many studies, his project Exploring the Locales of Cognitive Decline stands out. In it, Aguzzi proposes the combination of three-dimensional morphology with sophisticated fluorochrome chemistry and molecular methods of genome interrogation/perturbation. Through these revolutionary techniques, he aims to create a detailed atlas of the different cell types causing neurodegenerative damage. His avant-garde contributions have received a variety of awards. These include the Ernst-Jung Award, the Robert-Koch Award and an honorary medal from the European Molecular Biology Organization. He was also awarded the NOMIS Distinguished Scientist Award and has received Advanced grants from the European Research Council (ERC) to further his innovations.

In addition, this distinguished neuroscientist is on the editorial board of Science and is editor-in-chief of the Swiss Medical Weekly. He is also a member of the advisory board of numerous philanthropic foundations and biomedical companies and serves as Director of the Institute of Neuropathology at the University of Zurich.



Dr. Aguzzi, Adriano

- · Director of the Swiss National Reference Center for Prion Diseases
- · Director of the Institute of Neuropathology, Zurich
- Professor at the University of Zurich
- · Editor-in-Chief of the Swiss Medical Weekly
- Postdoctoral Fellow at the Research Institute for Molecular Pathology (IMP) in Vienna
- · Doctor of Medicine, Faculty of Medicine, University of Freiburg
- · Chairman of the Board of the European Brain Research Institute (EBRI) in Italy
- Member of: Scientific Advisory Board of the Italian Institute of Technology in Genoa, Advisory Board of the Giovanni Armenise-Harvard Foundation of Boston, Neurosciences Committee of the Wellcome Trust, London, Supervisory Board of the Roche Research Foundation



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Management



Dr. Yusta Izquierdo, Antonio

- Degree in medicine and surgery in 1985 from the Faculty of Medicine of the Autonomous University of Madrid During the course of the course, 5 passing grades, 16 B's, 7 A's, and 4 A's with honors
- 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
- Degree of Doctor of Medicine and Surgery 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 CLINIC" 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. Romero Delgado, Fernando

- Assistant Neurology Specialist at the University Hospital of Guadalajara (October 2018-present)
- Consultant Neurologist, Multiple Sclerosis and Other Demyelinating Diseases
 Monographic Consultation; and Neurology on-call at Sanitas La Moraleja University
 Hospital (June 2016 Present)
- On-call contract as Neurology Assistant at Guadalajara University Hospital (February 2018- September 2018)
- Assistant Neurology Specialist at San Carlos Clinical Hospital (August 2017 -February 2018)
- Integrated Researcher at the Multiple Sclerosis Unit of the San Carlos Clinical Hospital, through the Foundation for Biomedical Research (June 2017 July 2017)
- Integrated Researcher in the Multiple Sclerosis and Other Demyelinating Diseases
 Unit at the General University Hospital Gregorio Marañón, through the Foundation
 for Biomedical Research (July 2015 May 2017)

Dr. Carvalho Monteiro, Guilherme

- Master's Degree in Neuroimmunology at the Autonomous University of Barcelona
- Specialty of Neurology via MIR at the University Hospital of Guadalajara (HUG)
- External Rotation at the Movement Disorders Unit of the Ramón y Cajal University Hospital of Madrid, Spain Head of department: Juan Carlos Martínez Castrillo
- Master's Degree in "Clinical Reasoning and Practice" from the University of Alcalá, Spain
- Degree in Medicine from the University of Salamanca Numerous scientific publications in prestigious journals in the medical sector





tech 20 | Structure and Content

Module 1. Neuroectodermal Neurodegenerative Disorders

- 1.1. Neurofibromatosis.
- 1.2. Tuberous Sclerosis of Bourneville
- 1.3. Sturge-Weber Disease
- 1.4. Von Hippel-Lindau Disease
- 1.5. Ataxia-Telangiectasia
- 1.6. Neurocutaneous Melanosis
- 1.7. Xeroderma Pigmentosum
- 1.8. Cerebrotendinous Xanthomatosis
- 1.9. Hypomelanosis of Ito
- 1.10. Menkes Disease

Module 2. Neurodegenerative Disorders Caused by Prions

- 2.1. Introduction to the Neurodegenerative Pathology Caused by Priors
- 2.2. Sporadic Vreutzfeldt-Jakob Disease
 - 2.2.1. Incidence
 - 2.2.2. Symptomatic Treatment of Creutzfeldt-Jakob Disease
- 2.3. CIE Variant of "Mad Cow Disease"
- 2.4. Creutzfeldt-Jakob Disease Genetics
- 2.5. latrogenic Creutzfeldt-Jakob Disease
- 2.6. Fatal Family Insomnia
- 2.7. Gerstmann-Sträussler-Scheinker Disease
- 2.8. Kuru Disease
- 2.9. Protease-Sensitive Prionopathy





Structure and Content | 21 tech

Module 3. Other Neurodegenerative Disorders

- 3.1. Hereditary Amyloidosis and Neurodegeneration
- 3.2. Neurodegeneration with Iron Accumulation in the Brain
- 3.3. Familial Encephalopathy Due to Neuroserpin Inclusion Bodies
- 3.4. Hereditary Ferritinopathies
- 3.5. Neurodegenerative Disease Due to Copper Metabolism Disorder
- 3.6. Cadasil
- 3.7. Amyloid Angiopathy
- 3.8. Neurodegenerative Dystonia
- 3.9. Neurodegeneration in Multiple Sclerosis







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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 | 27 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.

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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.

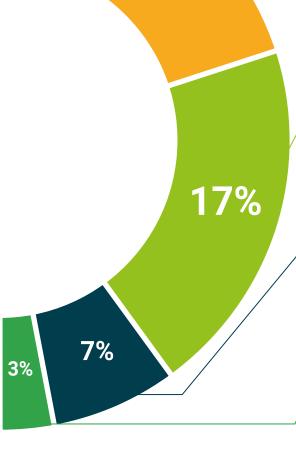
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.









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This **Postgraduate Diploma in Neurodegenerative Disease Disorders** 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 Diploma**, issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the University Expert, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Diploma in Neurodegenerative Disease Disorders

Official N° of hours: 450 h.



Mr./Ms. ______, with identification number _____ For having passed and accredited the following program

POSTGRADUATE DIPLOMA

in

Neurodegenerative Disease Disorders

This is a qualification awarded by this University, equivalent to 450 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

ere Guevara Navarro

is qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each cou

ique TECH Code: AFWORD23S techtitute.com/certific

^{*}Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

technological university



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