

Postgraduate Certificate

Biological Basis of
Schizophrenia and Other
Psychotic Disorders



Postgraduate Certificate Biological Basis of Schizophrenia and Other Psychotic Disorders

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

Website: www.techtute.com/us/medicine/postgraduate-certificate/biological-basis-schizophrenia-other-psychotic-disorders

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01

Introduction

The Neurobiology of Psychosis is an evolving field, which presents several current challenges that researchers are trying to address. Foremost among them is that the underlying causes of mental pathologies of psychosis are not yet fully understood. In turn, this leads to the fact that treatments to combat these diseases are not effective for all patients and have significant side effects. In this sense, mental health professionals must work on the integration of neuroscience and psychology for a more comprehensive understanding of mental disorders. For this reason, TECH has developed a program that will offer the biological basis of Schizophrenia and other psychotic disorders. All this in a 100% online mode.





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You will delve into the immunological aspects that influence Schizophrenia throughout this intensive 100% online academic itinerary”

Schizophrenia is a serious mental disorder that affects approximately 24 million people worldwide. Despite this, mental health professionals face daily challenges such as early diagnosis. This is because identifying such pathology in its early stages can be complicated, as the symptoms can be confused with other problems. Another challenge is to provide an individualized approach to treatment. Not all people with schizophrenia are the same, so they may respond differently to therapies. Hence the importance for psychologists to develop more precise tools such as biomarkers for a more accurate assessment.

In this context, TECH will provide its students with a program that will analyze in detail the neuro-endocrinological basis of psychotic disorders, with emphasis on Schizophrenia. Designed by a well-versed teaching team, the curriculum will delve into the role of immunology in these mental disorders. In addition, the syllabus will address the neurobiological aspects of psychosis in the various stages of life (infantile-juvenile, adult and old age). The didactic materials will also focus on the etiopathogenesis of psychotic pathologies and their influence on the evolution of disorders. In this way, graduates will be able to implement preventive strategies aimed at reducing the incidence of these disorders.

In addition, the only thing the students need is a device with Internet access (such as cell phone, computer or tablet) to access the Virtual Campus. In this sense, the schedules and evaluation chronograms can be planned individually. It should be noted that the syllabus will be based on the innovative Relearning teaching system that relies on repetition to guarantee the mastery of its different aspects. At the same time, it mixes the learning process with real situations so that knowledge is acquired in a natural and progressive way, without the extra effort of memorizing.

This **Postgraduate Certificate in Biological Basis of Schizophrenia and Other Psychotic Disorders** contains the most complete and up-to-date scientific program on the market.

The most important features include:

- ♦ The development of practical cases presented by experts in Psychotic Disorders
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative 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



You will delve into the risk factors of mental illness in the child and adolescent population through this Postgraduate Certificate”

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Do you want to be at the forefront of medical science? This program will provide you with the main scientific novelties in Psychotic Disorders such as Schizophrenia"

You will be able to optimize the approach to refractory psychotic pathologies, and all in 180 hours of learning!.

A complete and current syllabus, configured as a high quality education tool.

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 during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.



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Objectives

This university program offers students an integral vision, which will allow them to learn about the biological novelties of psychotic disorders. In this way, graduates will be aware of all the biological factors involved in mental pathologies. Likewise, students will effectively master the genetic, immunological and neuroendocrinological aspects of these types of conditions. Moreover, they will apply advanced tools such as neuroimaging to their professional practice, which will contribute to assess the condition of their patients.





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With the best rated learning assistance methods in online teaching, this program will allow you to assimilate knowledge in a fluid and efficient manner”



General Objectives

- ♦ Delve into the current classification of Psychotic Disorders in the different manuals: DSM-5 and ICD-11
- ♦ Consolidate the fundamental clinical aspects of Psychotic Disorders
- ♦ Gain knowledge about the evolution of Psychotic Disorders over time
- ♦ Identify the different types of Psychotic Disorders, their clinical characteristics and diagnosis
- ♦ Delve into the different diagnostic techniques and their new developments in Psychotic Disorders
- ♦ Perform a correct diagnostic approach to Psychotic Disorders
- ♦ Master the different pharmacological and psychotherapeutic approaches to Psychotic Disorders
- ♦ Detail and know the bio-psycho-social influence of Psychotic Disorders in children and adolescent, adult and elderly stages
- ♦ Learn about new approaches to intervention in the rehabilitation of schizophrenia and psychotic disorders
- ♦ Delve into new lines of scientific research in psychotic disorders





Specific Objectives

- Understand the most relevant epidemiological aspects of psychotic disorders
- Analyze the biological factors that influence psychotic disorders
- Delve into the most relevant genetic, immunological and inflammatory aspects of Psychotic Disorders



Access a world-class educational experience today that will elevate your professional horizons”

03

Course Management

To maintain intact the high educational level that characterizes all TECH programs, this Postgraduate Certificate has high caliber teachers. These professionals have an extensive professional background, which has led them to form part of prestigious hospitals. In this sense, these specialist have developed a curriculum for students to acquire the necessary knowledge and skills to apply in their working life.





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A specialized teaching team will pour their extensive knowledge in the field of medical psychiatry in this Postgraduate Certificate"

International Guest Director

Dr. David Kimhy conducts his extensive clinical and academic work at the Icahn School of Medicine at Mount Sinai. Specifically, he directs the Experimental Psychopathology Laboratory and heads the New Interventions in Schizophrenia Program. At the same time, he collaborates with the New York Mental Illness Research, Education and Clinical Center (NY MIRECC).

The research work of this prestigious psychiatrist is characterized by integrating innovative approaches that facilitate the understanding and treatment of psychotic disorders. In this way, his work has focused on addressing the cognitive, affective and behavioral processes that underlie severe mental illness.

He also leads 2 major studies funded by the American Institute of Mental Health. The first is a randomized, multi-site, blinded clinical trial that delves into the efficacy of aerobic exercise in improving neurocognition and daily functioning. In addition, it analyzes the impact of sleep on individual faculties as well. In turn, with these studies, he addresses the role of biomarkers such as BDNF and other neurotrophins in the change of abilities in each individual.

Dr. Kimhy's more than 2 decades of experience have made him a true international authority on cognitive and behavioral interventions aimed at improving the affective and social functioning of patients. To acquire his most advanced skills, this expert has completed postdoctoral stays and fellowships at leading centers such as the Schizophrenia Research Laboratory at Columbia University and the Beck Institute. Moreover, he has published several articles in some of the most important scientific journals. Likewise, his results have been reported by media such as NBC News, Scientific American and New York Magazine.



Dr. Kimhy, David

- Director of the Experimental Psychopathology Laboratory at Icahn School of Medicine at Mount Sinai, NY, USA
- Director of the New Interventions in Schizophrenia Program at the Icahn School of Medicine at Mount Sinai
- Investigator of the New York Mental Illness Research, Education and Clinical Center (NY MIRECC)
- Consultant on NeuroCog Trials
- Postdoctoral Research Fellow at Columbia University Medical Center
- Research Fellow at the Beck Institute for Cognitive-Behavioral Therapy
- Clinical Psychology Fellow in Psychology at Long Island Jewish Medical Center

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

Management



Dr. Soto Laguna, Marta

- Psychiatrist Expert in Anxiety Disorders
- Psychiatrist at Enova Medical Center
- Author and co-author of book chapters related to Psychiatry
- Co-author of articles for scientific journals
- Speaker at congresses and conferences in her specialty
- Master's Degree in Legal Psychiatry from the Complutense University of Madrid



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Structure and Content

This academic itinerary will allow students to approach the keys to the biological bases that determine the onset of schizophrenia at different stages of life. In this way, the syllabus will delve into the influence of genetic, immunological and neuroendocrinological factors in psychotic entities. In this sense, the didactic materials will delve into inflammatory changes and their close relationship with mental pathologies. On the other hand, the contents will analyze the most relevant studies that have emerged in this field in recent years.





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TECH's 100% online methodology will allow you to update your knowledge without interrupting your professional work"

Module 1. Biological Basis of Schizophrenia and Other Psychotic Disorders

- 1.1. The Neurobiology of Psychosis
 - 1.1.1. The Brain and Psychosis
- 1.2. Genetic Aspects in Psychotic Disorders
- 1.3. Neuroendocrinological Bases in Psychotic Disorders
- 1.4. Role of Immunology in Psychotic Disorders
- 1.5. Influence of Inflammatory Factors in the Psychotic Spectrum
- 1.6. Neurobiological Aspects of Psychosis in the Different Stages of Life
 - 1.6.1. Children and Adolescents
 - 1.6.2. Adult
 - 1.6.3. Elderly
- 1.7. Etiopathogenesis of Psychotic Disorders and its Influence on the Evolution of the Disorder
 - 1.7.1. Risk Factors
 - 1.7.2. Protective Factors
- 1.8. Neuroimaging in Psychosis
- 1.9. Approach to Refractory Psychotic Disorders
- 1.10. Current Positioning of Psychotic Entities in the Biological Plane
 - 1.10.1. Scientific Developments





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This syllabus includes clinical cases to bring the development of the university as close as possible to the reality of health care" Don't miss this opportunity and enroll"

05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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.

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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:

1. 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.



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.



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Certificate

The Postgraduate Certificate in Biological Basis of Schizophrenia and Other Psychotic Disorders guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.





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*Successfully complete this program
and receive your university qualification
without having to travel or fill out
laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Biological Basis of Schizophrenia and Other Psychotic Disorders** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

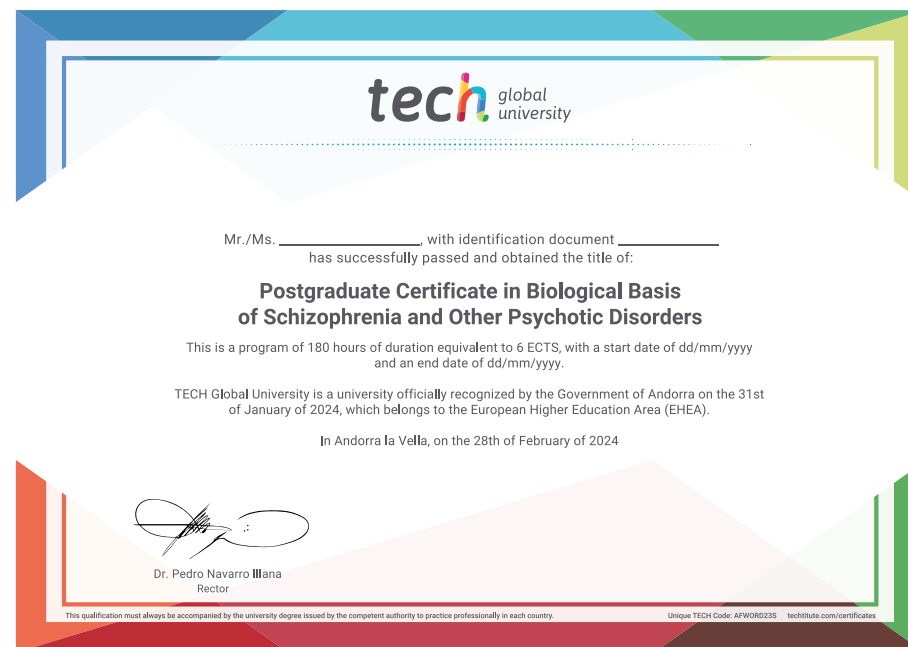
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Biological Basis of Schizophrenia and Other Psychotic Disorders**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development languages
virtual classroom



Postgraduate Certificate
Biological Basis of
Schizophrenia and Other
Psychotic Disorders

- » Modality: online
- » Duration: 6 weeks
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- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

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