

Postgraduate Certificate Biochemistry of Mental Disorders for Teachers





Postgraduate Certificate Biochemistry of Mental Disorders for Teachers

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

Website: www.techtute.com/us/education/postgraduate-certificate/biochemistry-mental-disorders-teachers

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01

Introduction

Advances in understanding how the brain functions have provided education with a new perspective on how to appropriately respond to cases of mental disorders. Research has laid the biological foundations of these diseases, answering many of the unanswered questions and opening new avenues for work. This Postgraduate Certificate offers you the updated knowledge you need to act in this area with the confidence of receiving the best professional training.

A Postgraduate Certificate that will allow you to take a giant step in intervening from the educational field in the development of students with mental illnesses.



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The biochemical responses to mental disorders, turned into a tool for educators that will allow them to build an appropriate intervention in response to the specific needs of their students”

Today, we know that our basic emotions are exclusively regulated by specific biochemical brain processes. In other words, each basic emotion requires the activation of one or more neurotransmitters, which are always the same for each emotion.

We also understand the importance of emotional regulation in controlling behavior and thought, which is why biochemical knowledge of the brain is essential for understanding the processes behind health and illness. Knowledge of these biochemical processes is crucial for psychologists in the 21st century, both for applying it in their daily clinical practice and for clinical research.

The Postgraduate Certificate in Biochemistry of Mental Disorders for Teachers is a unique program in teaching the mastery of brain biochemistry and, with that, the mastery of the biochemical processes occurring in mental disorders.



Enhance your knowledge through the Postgraduate Certificate in Biochemistry of Mental Disorders in a practical way that is adapted to your needs"

This **Postgraduate Certificate in Biochemistry of Mental Disorders for Teachers** contains the most complete and up-to-date educational program on the market. The most important features include:

- ♦ Development of over 75 clinical cases presented by experts
- ♦ 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
- ♦ New diagnostic and therapeutic developments in the assessment, diagnosis and intervention of the biological and neurological processes that explain mental illness
- ♦ It contains practical exercises where the self-assessment process can be carried out to improve learning
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ With special emphasis on evidence-based psychology and research methodologies in psychology
- ♦ All of this will be complemented by 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

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The methodologies of a highly specialized program that will provide you with the most advanced distance learning systems available today”

A Postgraduate Certificate that will become a process of professional growth of the utmost interest for educators.

Intensive, comprehensive, interesting and efficient. This is the Postgraduate Certificate you were looking for.

The program includes faculty members who are professionals in the field of Psychology, bringing their real-world experience to this course, along with recognized specialists from leading scientific societies.

Thanks to its multimedia content, developed with the latest educational technology, professionals will benefit from situated and contextual learning—simulated environments designed to provide immersive learning experiences that prepare them for real-life situations.

This program is designed around Problem-Based Learning, whereby students must try to solve the different professional practice situations that arise throughout the Postgraduate Certificate. To assist with this, the professional will have the support of an innovative interactive video system created by recognized experts in the field of clinical neuropsychology, with extensive teaching experience.



02

Objectives

The goal of this program is to train education professionals in understanding the brain processes that affect student behavior. This specialization will allow you to intervene from the field of neuropsychology, completing the necessary data to intervene in the most comprehensive manner. An opportunity to grow as a professional with the endorsement of the best professionals in the educational market.





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A high-level training qualification that will enable you to work with the understanding of a specialist when dealing with students who have mental disorders”



General Objectives

- ♦ Explain the global functioning of the brain, as well as the biochemistry that activates or inhibits it
- ♦ Manage brain activity as a map for mental disorders
- ♦ Describe the most common neurological disorders in psychological consultations
- ♦ Describe the relationships between the central nervous system, endocrine system, and immune system



Take advantage of the opportunity and add knowledge in the Biochemistry of Mental Disorders for Teachers to your competencies and CV"





Specific Objectives

- ♦ Explain phylogeny from cerebral ontogeny
- ♦ Manage the neurological and biochemical framework in the overall context of human behavior
- ♦ Develop models that understand mental health and mental illness from brain activity
- ♦ Define the specific biochemical and anatomical activity in each mental disorder
- ♦ Develop psychological models that improve biochemical and anatomical imbalances
- ♦ Participate in multidisciplinary interventions in mental disorders
- ♦ Master psycho-neurological advances involved in health and illness
- ♦ Describe the different stages in stimulus analysis
- ♦ Manage the biochemical and neurological mechanisms that establish and extinguish memory
- ♦ Develop psychological tools to change the biochemistry and neuroanatomy of the brain
- ♦ Explain how basic emotions depend on the activated biochemistry and neuroanatomy

03

Course Management

The program includes faculty members who are leading experts in the Biochemistry of Mental Disorders, bringing their real-world experience into this course. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.



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Learn from leading professionals about the latest advances in procedures in the field of the Biochemistry of Mental Disorders for Teachers”

Management



Dr. Martínez Lorca, Alberto

- ♦ Specialist in Nuclear Medicine. Rey Juan Carlos University Hospital - Quirón. Madrid. Spain

Coordinator



Dr. Aguado Romo, Roberto

- ♦ Psychologist specialized in clinical psychology
- ♦ European specialist psychologist in psychotherapy
- ♦ Managing Director of evaluation and psychotherapy centers in Madrid, Bilbao, and Talavera de la Reina
- ♦ Author of Time-Limited Psychotherapy
- ♦ Researcher at CerNet, Emotional Network, and European Institute for Time-Limited Psychotherapies

Teachers

Fernández, Ángel

- ♦ European specialist psychologist in Psychotherapy from the EFPA
- ♦ Health Psychologist. Master's Degree in Clinical and Health Psychology
- ♦ Director of the Evaluation and Psychotherapy Center of Madrid
- ♦ Tutor in charge of the Psychodiagnosis and Psychological Intervention area of the CEP
- ♦ Author of the T.E.N. technique
- ♦ Head of studies on the Master's Degree in Time-Limited Psychotherapy and Health Psychology
- ♦ Specialist in Clinical Hypnosis and Relaxation

Ms. González, Mónica

- ♦ Psychologist in charge of the Department of Child and Adolescent Psychology in the Quirón Hospital and Avatar Psychologists in Marbella
- ♦ Master's degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy
- ♦ Kaisser, Carlos. M.D. Otolaryngologist
- ♦ Head of the Otolaryngology department at Segovia General Hospital
- ♦ Member of the Royal Academy of Medicine of Salamanca
- ♦ Master's Degree in Time-Limited Psychotherapy and Health Psychology
- ♦ Expert in Psychosomatic Medicine

Ms. Martínez-Lorca, Manuela

- ♦ Doctorate in Psychology from the University of Castilla-La Mancha
- ♦ Health Psychologist
- ♦ Lecturer in the Department of Psychology at the UCLM. Master in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies
- ♦ Specialist in Clinical Hypnosis and Relaxation

Ms. Roldan, Lucia

- ♦ Health Psychologist
- ♦ Cognitive-behavioral intervention specialist
- ♦ Master's Degree in Time-Limited Psychotherapy and Health Psychology
- ♦ Expert in energy therapy intervention

04

Structure and Content

The design of this training has been developed with the criteria of excellence upheld by our university. With an engaging and comprehensive development, this educational journey will allow you to learn dynamically and consistently, helping you achieve your goals with ease and efficiency.



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This Postgraduate Certificate in Biochemistry of Mental Disorders contains the most interesting and up-to-date scientific program available for teachers”

Module 1. Biochemistry of Mental Disorders

- 1.1. Neurotransmitters and Mental Illness
 - 1.1.1. Upper Stratum (NA / 5-HT) Own Anxiety, Stress
 - 1.1.2. Lower Stratum (DA / Ach) Own Helplessness, Depression
- 1.2. NA-Type Biochemical Imbalance
 - 1.2.1. Clinical Hypomania
 - 1.2.2. Clinical Psychopathy
 - 1.2.3. Clinical Psychosis
 - 1.2.4. Clinical Anxiety
 - 1.2.5. Clinical Loss of Impulse Control
- 1.3. Clinical Depression
- 1.4. Clinical Immunological Depression
- 1.5. Clinical Mania
- 1.6. Clinical Schizophrenia
- 1.7. Clinical Sleep Disorders
- 1.8. Clinical Impulse Control Disorders
- 1.9. Clinical Eating Disorders
- 1.10. Type Ach Biochemical Imbalance
 - 1.10.1. Complex Arterial Hypotension, Hypoglycemia, Bradycardia and Muscular Asthenia
 - 1.10.2. Physical and Psychological Exhaustion
 - 1.10.3. Attention and Memory Disorders
 - 1.10.4. Neurological Diseases Affecting the Locomotor System
 - 1.10.5. Clinical Affective Blunting and Consciousness Disorder
- 1.11. Type DAe Biochemical Imbalance
 - 1.11.1. Calm, Serenity Suppressing Irritability Complex
 - 1.11.2. Insomnia
 - 1.11.3. Ill-Tempered, Without Expressing It
- 1.12. Type DAi Biochemical Imbalance
 - 1.12.1. Motor Hyperactivity
 - 1.12.2. Complex Tachycardia, Hypertension and Hyperglycemia
 - 1.12.3. Histrionic Spectrum Disorders with Anxious Depression



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*A unique, essential and decisive
learning experience to boost your
professional development”*

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

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.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



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 syllabi that 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*”

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 teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, 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.



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.

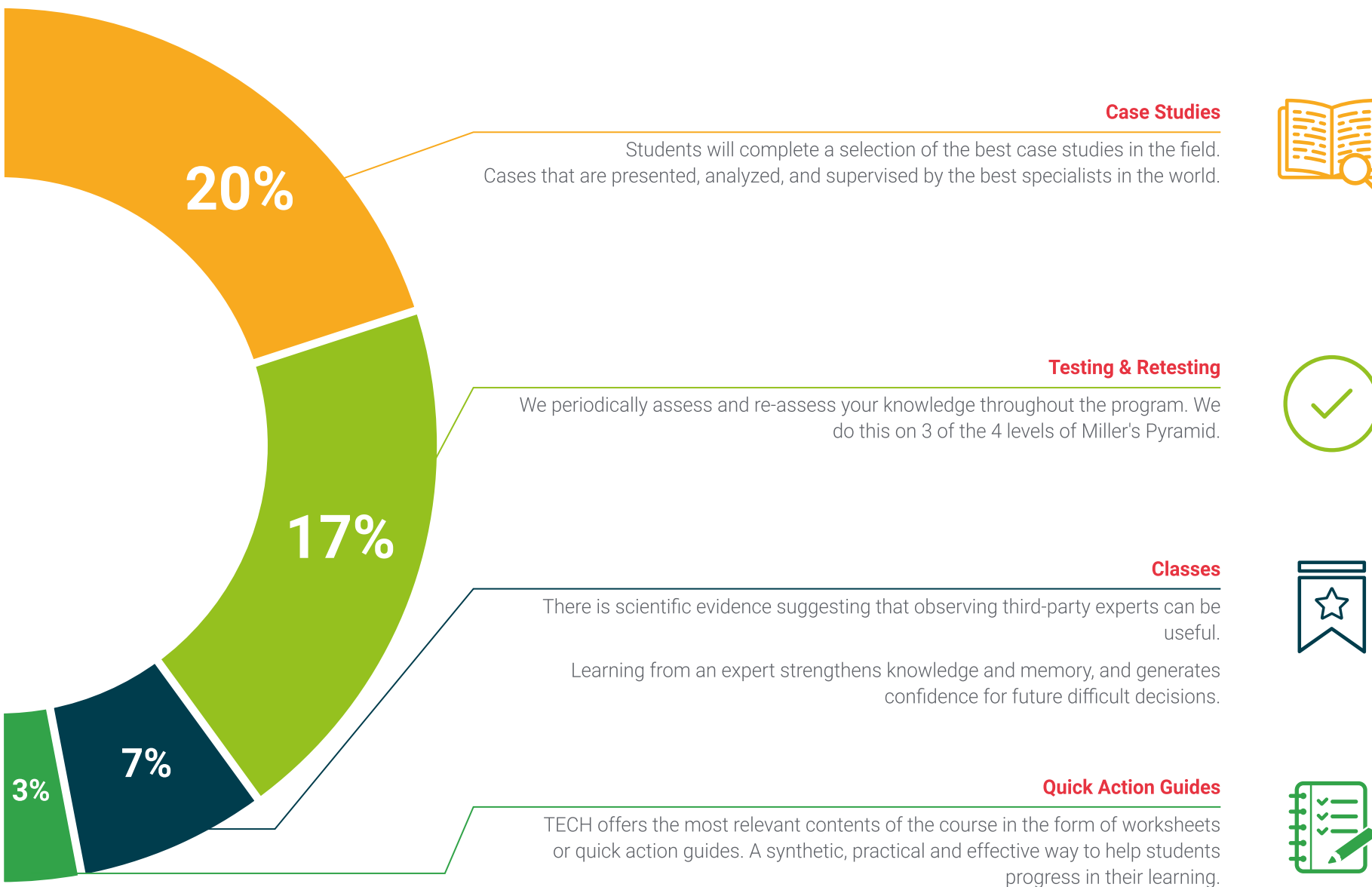
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

The Postgraduate Certificate in Biochemistry of Mental Disorders for Teachers guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the 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 private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Biochemistry of Mental Disorders for Teachers** 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 Biochemistry of Mental Disorders for Teachers**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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