

Postgraduate Certificate Epigenetics for Nursing



Postgraduate Certificate Epigenetics for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-certificate/epigenetics-nursing

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01

Introduction

Nutrition and Epigenetics are two interrelated areas that require specialized healthcare practitioners who constantly keep knowledge up to date with the latest developments. Do not hesitate and join our community of students, it is the best opportunity you can find to increase your knowledge in Epigenetics, a booming science that is closely linked to advances in nutrition





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Give your career a boost with this Epigenetics for Nursing training and you'll notice how you advance in your daily practice"

This Postgraduate Certificate details everything a health practitioner needs to know about Epigenetics. Thus, the material is organized in such a way as to advance knowledge without leaving doubts or gaps in information. It is the best training on the market, because it offers the opportunity to learn online all the innovation in the field of Nutritional Genomics

Specifically, this training explores the basis of the relationship between Epigenetics and Nutrition. In addition, the differences between Epigenetics and Epigenomics are described, and scientific advances in these fields that are closely related to food are presented. On the other hand, it explains how Epigenetics can influence our health and how it interacts with nutritional habits

This Postgraduate Certificate provides students with specific tools and skills to successfully develop their practitioner activity related to Nutritional Genomics and Precision Nutrition

As it is an online Postgraduate Certificate, the student is not conditioned by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life

This **Certificate in Epigenetics for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ◆ The development of case studies presented by experts in Genomic and Precision Nutrition
- ◆ The graphic, schematic and eminently practical contents of the course are designed to provide all the essential information required for professional practice
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Special emphasis on innovative methodologies in Epigenetics for Nursing
- ◆ 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



Get trained in the broad field of Epigenetics and offer specialized care to your patients"

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This Postgraduate Certificate is the best investment you can make in selecting a refresher program to bring your knowledge of Epigenetics for Nursing up to date"

Its teaching staff includes professionals belonging to the field of nutrition, who contribute their work experience to this training, as well as renowned specialists from reference 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 training programmed to train 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 healthcare practitioner will be assisted by an innovative Interactive Video System, developed by Renowned and Experienced Experts in Epigenetics

This program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations

This 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field



02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the nursing practitioner can master the study of Nutritional Genomics and precision nutrition in a practical and rigorous way



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This refresher program will provide you with a sense of confidence in your daily work, which will help you grow both personally and professionally”



General objectives

- ♦ Acquire theoretical knowledge of human population genetics
- ♦ Acquire knowledge of Genomic and Precision Nutrition to be able to apply it in clinical practice
- ♦ Learn about the trajectory of this innovative field and the key studies that contributed to its development
- ♦ Know in which pathologies and conditions of human life Genomic and Precision Nutrition can be applied
- ♦ Be able to assess individual response to nutrition and dietary patterns in order to promote health and disease prevention
- ♦ Understand how nutrition influences gene expression in humans
- ♦ Learn about new concepts and future trends in the field of Genomic and Precision Nutrition
- ♦ Adapt personalized dietary and lifestyle habits according to genetic polymorphisms
- ♦ Provide health professionals with all the updated knowledge in the field of Genomic and Precision Nutrition in order to know how to apply it in their professional activity
- ♦ Put all the up to date knowledge in perspective. Where we are now and where we are headed so that the student can appreciate the ethical, economic and scientific implications in the field





Specific objectives

- ◆ Exploring the Basis of the Relationship between Epigenetics and Nutrition
- ◆ Present and Analyze how MicroRNAs are Involved in Genomic Nutrition

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*Take the step and join
one of the largest online
universities in the world”*

03

Course Management

The program's teaching staff includes leading Postgraduate Diplomas in Nutritional Genomics and Precision Nutrition, who bring the experience of their work to this training. Additionally, other recognized experts have participated in its design and preparation, complementing the program in an interdisciplinary manner





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Leading professionals in the field have come together to teach you the latest developments in Epigenetics”

Management



Dr. Konstantinidou, Valentini

- ♦ PhD. in Biomedicine
- ♦ Lecturer in Nutrigenetics
- ♦ Founder of DNANUTRICOACH®
- ♦ Dietitian- Nutritionist
- ♦ Food Technologist



04

Structure and Content

The structure of the contents has been designed by a team of professionals who are familiar with the implications of training in daily practice, and who are aware of the relevance of training in Nutritional Genomics and Precision Nutrition. They are committed to quality teaching through new educational technologies



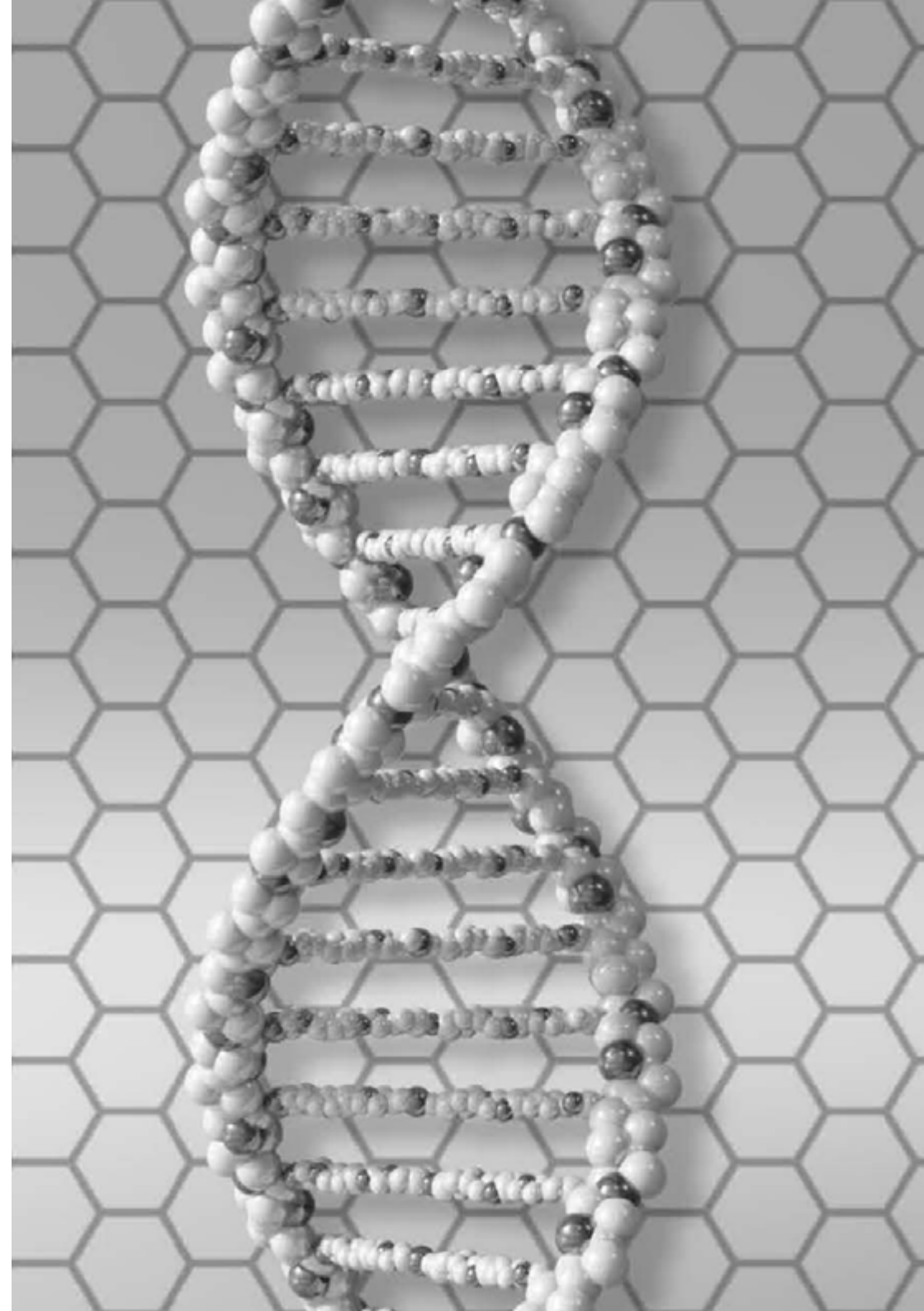


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We have the most complete and updated scientific program on the market. We strive for the excellence that we want you to achieve too"

Module 1. Epigenetics

- 1.1. History of Epigenetics - The way I feed my Grandchildren's Inheritance
- 1.2. Epigenetics vs Epigenomics
- 1.3. Methylation
 - 1.3.1. Examples of Folate and Choline, Genistein
 - 1.3.2. Examples of Zinc, Selenium, Vitamin A, Protein Restriction
- 1.4. Histone Modification
 - 1.4.1. Examples of Butyrate, Isothiocyanates, Folate and Choline
 - 1.4.2. Examples of Retinoic Acid, Protein Restriction
- 1.5. MicroRNA
 - 1.5.1. Biogenesis of MicroRNAs in Humans
 - 1.5.2. Mechanisms of Action-Regulating Processes
- 1.6. Nutrimiomics
 - 1.6.1. Diet-Modulated MicroRNAs
 - 1.6.2. MicroRNAs involved in Metabolism
- 1.7. Role of MicroRNAs in Diseases
 - 1.7.1. MicroRNA in Tumorigenesis
 - 1.7.2. MicroRNAs in Obesity, Diabetes and Cardiovascular Diseases
- 1.8. Gene Variants that Generate or Destroy Binding Sites for MicroRNAs
 - 1.8.1. Main Studies
 - 1.8.2. Results in Human Diseases
- 1.9. MicroRNA Detection and Purification Methods
 - 1.9.1. Circulating MicroRNAs
 - 1.9.2. Basic Methods Used



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

05

Methodology

This training program offers a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

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 Re-learning, 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 Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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.



Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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



The nurse will learn through real cases and by solving 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 Re-learning 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a high socioeconomic profile and an average age of 43.5 years old.

Re-learning 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 really 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.



Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, 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 them as many times as you want.



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 multimedia content presentation training Exclusive system 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

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of achieving their goals.



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 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.



06

Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level





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Add a course in Epigenetics for Nursing to your CV and become a highly competitive professional”

This **Postgraduate Certificate in Epigenetics for Nursing** 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**

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

Title: **Postgraduate Certificate in Epigenetics for Nursing**

ECTS: **6**

Official Number of Hours: **150 h.**





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