



Postgraduate Certificate

Nutritional Genomics and Precision Nutrition

» Modality: online

» Duration: 2 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

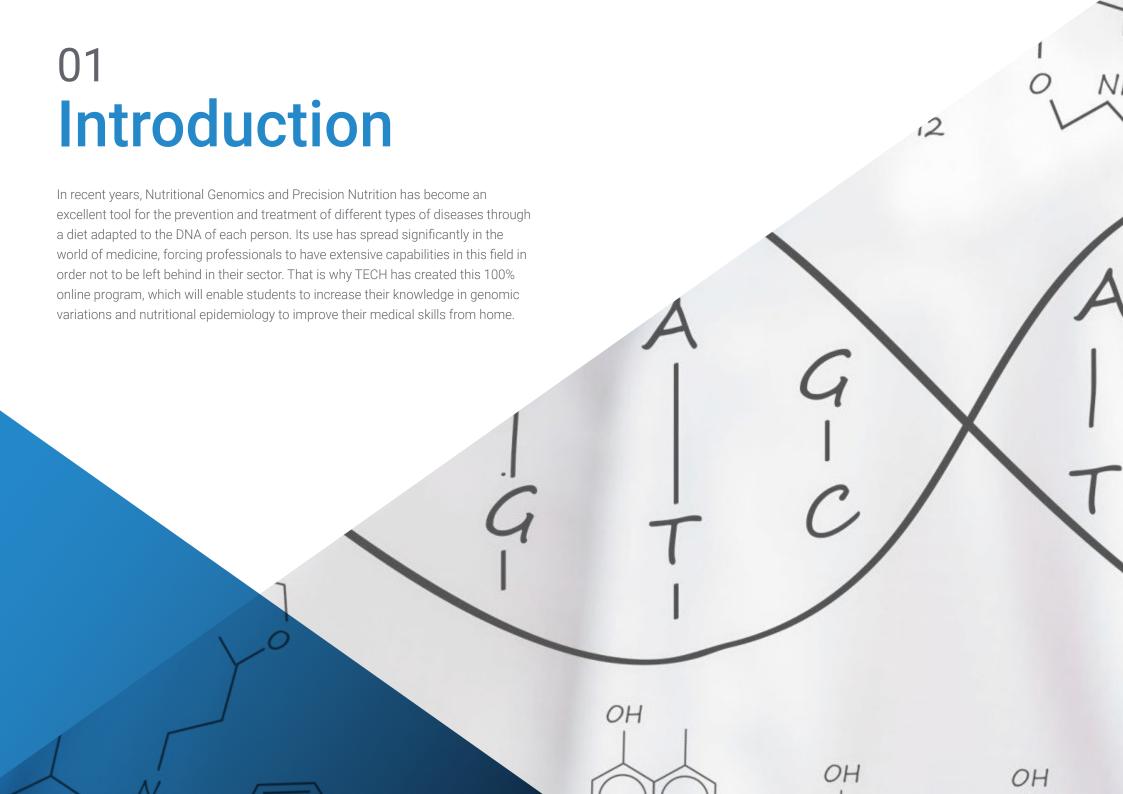
We bsite: www.techtitute.com/us/medicine/postgraduate-certificate/nutritional-genomics-precision-nutrition

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Certificate





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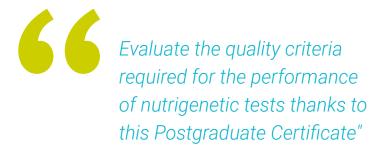
Over the last decade, Genomic Nutrition has progressively gained ground in medical consultations due to the benefits it offers, according to the numerous investigations carried out in this field. In this line, it makes it possible to adapt the diet to the genetic particularities of each person and their natural predisposition to suffer from various diseases, with the aim of minimizing the risk of contracting them or favoring their adequate control. Since its application has a positive impact on the patient's well-being, physicians must manage this discipline in order to provide high quality care.

For this reason, TECH has developed this Postgraduate Certificate, through which the student will assimilate the most relevant and updated knowledge in the area of Nutritional Genomics and Precision Nutrition, as well as a review of its current situation and its presence in health institutions. During this academic period, they will identify the influence of genetics and environmental factors in the development of complex diseases and will adopt the findings of the main studies carried out in the field of Human Nutrition and Genomics. Additionally, they will determine the quality criteria of nutrigenetic tests or will master the ethical and legal aspects of this discipline.

Because this program is taught through a 100% online methodology, the student will perfectly combine their personal and professional duties with an excellent learning experience. Likewise, this program is designed by cutting-edge experts in the field of Nutritional Genomics and Precision Nutrition, who will provide you with knowledge that is most in tune with the latest developments in this area.

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

- The development of case studies presented by experts in Nutritional Genomics and Precision Nutrition
- The graphic, schematic and practical contents with which it is conceived scientific and practical information on those disciplines that are essential for professional practice
- The practical exercises where the self-evaluation 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





Thanks to the study facilities provided by this program, you will easily combine your learning with your personal and work obligations"

The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, in which the professional will have to try to solve the different professional practice situations that will arise throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

In only 12 weeks, you will be able to adopt the best knowledge in Nutritional Genomics and Precision Nutrition that will enrich your professional practice.

Identify the ethical and legal aspects of Nutritional Genomics to develop tasks in this field with maximum safety.





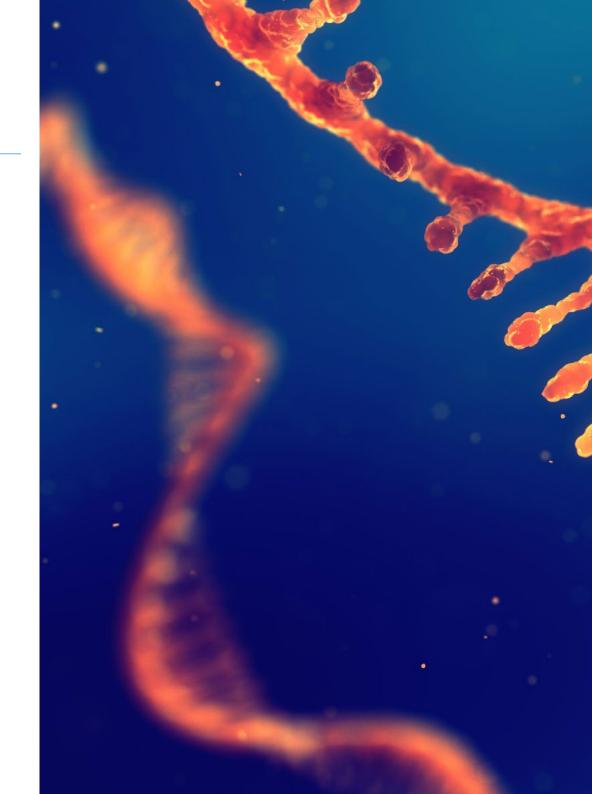


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General Objectives

- Acquire theoretical knowledge of human population genetics
- Acquire knowledge of Nutritional Genomics 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 Nutritional Genomics and Precision Nutrition can be applied
- Be able to assess individual response to nutrition and dietary patterns in order to promote health and prevent disease
- Understand how nutrition influences gene expression in humans
- Learn about new concepts and future trends in the field of Nutritional Genomics and Precision Nutrition
- Adapt personalized dietary and lifestyle habits according to genetic polymorphisms
- Provide health professionals with all the up-to-date knowledge in the field of Nutritional Genomics and Precision Nutrition in order to know how to apply it in their professional activity
- Put all the updated knowledge in perspective. Where it is and where it is going so that the student can appreciate the ethical, economic and scientific implications in the field





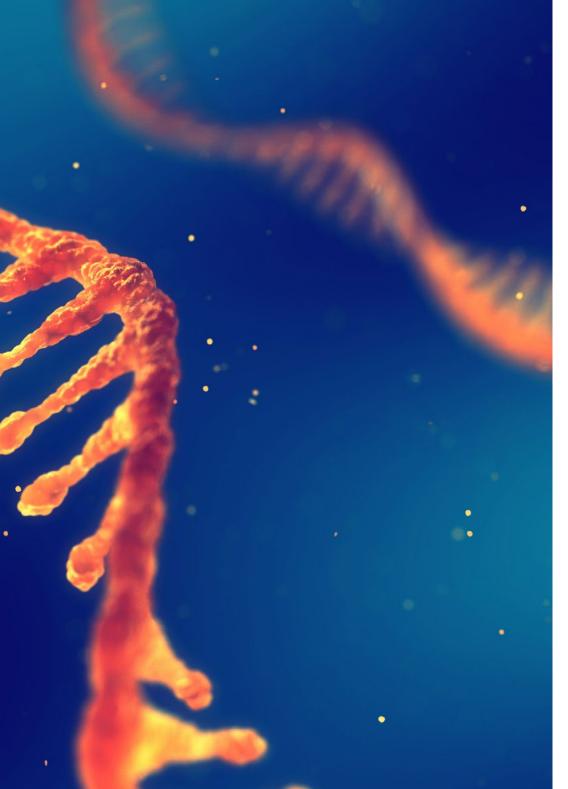


Specific Objectives

- Present definitions necessary to follow the thread of the following modules
- Explain relevant points of human DNA, nutritional epidemiology, from the scientific method
- Analyze key studies in Genomic Nutrition
- Present and analyze key aspects for the application of Nutritional Genomics in society
- Reflect on and analyze past and present cases and anticipate future market developments in the field of Nutritional Genomics



Increase your knowledge in a discipline increasingly used in the field of medicine to improve the treatment of various diseases"







tech 14 | Course Management

Management



Dr. Konstantinidou, Valentini

- Dietitian-Nutritionist Specialist in Nutrigenetics and Nutrigenomics
- Founder of DNANutricoach
- Creator of the Food Coaching method to change eating habits
- Lecturer in Nutrigenetics
- Doctorate in Biomedicine
- Dietitian- Nutritionis
- Food Technologist
- Accredited Life Coach of the British body IPAC&M
- Member of: American Society for Nutrition



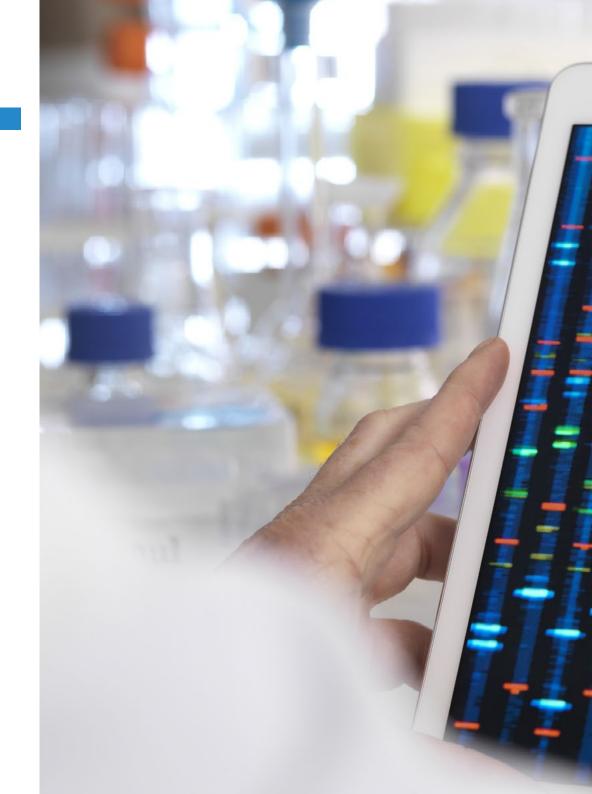


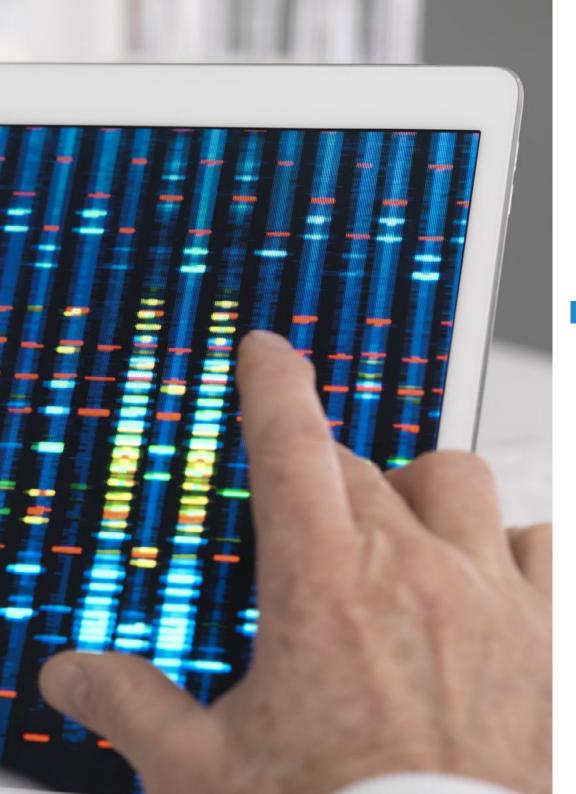


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Module 1. Introduction to Nutritional Genomics and Precision Nutrition

- 1.1. Human Genome
 - 1.1.1. DNA Discovery
 - 1.1.2. Year 2001
 - 1.1.3. Human Genome Project
- 1.2. Variations Relevant to Nutrition
 - 1.2.1. Genomic Variations and the Search for Disease Genes
 - 1.2.2. Environment vs. Genetic and Heritability
 - 1.2.3. Differences between SNPs, Mutations and CNVs
- 1.3. The Genome of Rare and Complex Diseases
 - 1.3.1. Examples of Rare Diseases
 - 1.3.2. Examples of Complex Diseases
 - 1.3.3. Genotype and Phenotype
- 1.4. Precision Medicine
 - 1.4.1. Influence of Genetics and Environmental Factors on Complex Diseases
 - 1.4.2. Need for Precision The Problem of Heritability Lost. Concept of Interaction
- 1.5. Precision Nutrition vs. Community Nutrition
 - 1.5.1. The Principles of Nutritional Epidemiology
 - 1.5.2. Current Bases of Nutritional Research
 - 1.5.3. Experimental Designs in Precision Nutrition
- 1.6. Levels of Scientific Evidence
 - 1.6.1. Epidemiological Pyramid
 - 1.6.2. Regulation
 - 1.6.3. Official Guides





Structure and Content | 19 tech

- 1.7. Consortia and Major Studies in Human Nutrition and Genomic Nutrition
 - 1.7.1. Precision4Health Project
 - 1.7.2. Framingham
 - 1.7.3. PREDIMED
 - 1.7.4. CORDIOPREV
- 1.8. Current European Studies
 - 1.8.1. Predimed Plus
 - 1.8.2. NU-AGE
 - 1.8.3. F00D4me
 - 1.8.4. EPIC

Module 2. Current Market State

- 2.1. Legal Aspects
- 2.2. Ethical Aspects
- 2.3. DTC (Direct-To-Consumer) Tests
 - 2.3.1. Pros and Cons
 - 2.3.2. Myths of Early DTCs
- 2.4. Quality Criteria for a Nutrigenetic Test
 - 2.4.1. SNP Selection
 - 2.4.2. Interpretation of Results
 - 2.4.3. Laboratory Accreditations
- 2.5. Health Professionals
 - 2.5.1. Training Needs
 - 2.5.2. Criteria of Professionals Applying Genomic Nutrition
- 2.6. Nutrigenomics in the Media
- 2.7. Integration of Evidence for Personalized Nutritional Counseling
- 2.8. Critical Analysis of the Current Situation
- 2.9. Discussion Work
- 2.10. Conclusions, use of Nutritional Genomics and Precision Nutrition as Prevention





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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 | 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.

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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.









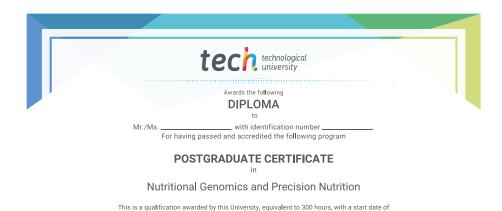
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This **Postgraduate Certificate in Nutritional Genomics and Precision Nutrition** contains the most complete and up-to-date scientific on the market.

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 Nutritional Genomics and Precision Nutrition Official N° of Hours: **300 h.**



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.

health confidence people
leducation information tutors
guarantee accreditation teaching
institutions technology learning



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