



**Early Nutrition Academy (ENA)  
Postgraduate Course 2023**



**Interuniversity Masters' Degree on: "Genetics,  
Nutritional & Environmental Factors for Growth and  
Development" (NUTRENVIGEN-G+D Factors)**

***"Early Life and Long-term Health"***



**29<sup>th</sup> June 2023**

**Venue:**

**Main Hall**

**Faculty of Medicine. University of Granada  
Avda. De la Investigación, 11 - 18016 Granada**

**Organizing Committee**

**Director of Cathedra ORDESA  
Coordinator NUTRENVIGEN-G+D Factors Masters' Degree  
President of the ENA Postgraduate Course 2023  
Cristina Campoy (UGR)**

**President of the Early Nutrition Academy (ENA)  
Doctor Honoris Causa - University of Granada  
Berthold Koletzko (UMU)**

**Local Committee:**

*María García-Ricobaraza (UGR)  
Elena M<sup>a</sup> Requena Rodríguez (UGR)  
Mercedes García-Bermúdez (UGR)  
José Antonio García-Santos (UGR)  
Ana Nieto-Ruiz (UGR)  
Antonio Jerez Calero (UGR)  
José Maldonado Lozano (UGR)  
Antonio Muñoz-Hoyos (UGR)  
Mireia Escudero Marín (UGR)  
Rocío Bonillo León (UGR)  
Estefanía Diéguez Castillo (UGR)  
Cristina Morato Gabao (UGR)*

**Vocals**

*Concepción Aguilera (UGR)  
Andrés Catena Martínez (UGR)  
Alegria Carrasco (UGR)  
M<sup>a</sup> Luz Couce Picó (USC)  
Joaquín Escribano (URV)  
Rosaura Leis Trabazo (USC)  
Verónica Luque (URV)  
Luis Moreno (UNIZAR)  
Gerardo Rodríguez (UNIZAR)  
Pilar Samper (UNIZAR)  
M<sup>a</sup> José Sánchez (EASP)  
Antonio Suárez (UGR)*



**UNIVERSIDAD  
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UNIVERSITAT ROVIRA I VIRGILI



UNIVERSIDADE  
DE SANTIAGO  
DE COMPOSTELA



**Universidad  
Zaragoza**

## INTRODUCTION

The Early Nutrition Academy (ENA) (<https://www.early-nutrition.org/home/>) was established with the Early Nutrition Programming Project (EARNEST) to promote science of early nutrition and metabolic programming, in particular as it relates to nutrition in women of childbearing age, infants, and children, including basic science, epidemiology and applied nutrition, as well as standards of nutrition practice.

The Early Nutrition Academy (ENA), supported by the most prestigious researchers in the field, was designed to:

- Offer a comprehensive curriculum on mother-infant and pediatric nutritional programming research, literature, and clinical trials.
- Provide well-founded advice on preventing, diagnosing, and managing early nutrition programming for adult diseases.
- Offer unique opportunities to learn and interact with other researchers and expert faculty from various International Centers from around the world interested in *“Early Nutrition Programming”*.

Furthermore, ENA fosters nutrition education; in this regard, over the past 20 years, ENA has organized a series of highly successful Symposiums, Training and Postgraduate courses for young scientists committed to pediatric nutrition research. These courses have provided scientific information up-to-date, trained communication and presentation skills, helped younger academicians to network, build scientific careers, and fostered enthusiasm in the participating scholars. The success of these courses is of high interest, as they help to considerably strengthen the field of academic pediatric nutrition all over the world.

This new ENA Postgraduate Course will be held Thursday, **June 29<sup>th</sup> 2023** at the University of Granada with the main topic: *“Early Life and Long-term Health”*.

The course is associated with the Interuniversity Master’s Degree on *“Genetic, Nutritional and Environmental Factors for Growth and Development”* (NUTRENVIGEN-G+D Factors), and has been supervised, approved, and scientifically supported by the ENA members. <https://masteres.ugr.es/nutrenvigen/>

## VENUE

This day of Postgraduate Course will be held ON-SITE at the Granada Medical School - UGR sited at Avda. de la Investigación, 11 – 18016 Granada, (Spain). <https://medicina.ugr.es/>

The course will be also retransmitted ON-LINE by streaming from the University of Granada. All participants registered will receive the link to join the course ON-LINE.

## REGISTRATION

We strongly recommend registering on-line at the following link:

[https://docs.google.com/forms/d/e/1FAIpQLSf6yGq31A6HOsKk0buhXZGu9NPel1rgn09lu8FO8gi5OSVtpg/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSf6yGq31A6HOsKk0buhXZGu9NPel1rgn09lu8FO8gi5OSVtpg/viewform?usp=sf_link)

After being registered, you will receive the **link to attend the sessions**.

**Certify of attendance** will be sent by e-mail after the course.

## WHO SHOULD ATTEND THE POSTGRADUATE COURSE?

The Course is designed for Master's, PhD students, young investigators in clinical practice, pediatrics, nutrition and dietetics, biochemistry and molecular biology, psychology, neuroscience, genetics, epidemiologists, sports medicine, public health, or basic science research related to pregnant women and pediatric nutrition.

The Postgraduate Course is aimed at researchers, clinicians, and other healthcare professionals interested in developing an academic career in early life and pediatric nutrition.

## ENA POSTGRADUATE COURSE 2023, LEARNING OBJECTIVES

After the Postgraduate Course, participants should:

- Have a complete and updated overview of how Early Life Nutrition and other environmental factors impact the risk for the development of non-communicable diseases.
- Have updated practical knowledge about the nutrition approach for preventing very common and chronic disorders.
- Be familiar with emerging trends in Nutrition related to Obesity, CVD, Hypertension, Gut-brain axis, Neuropsychological disorders, Mental Diseases...



## Early Nutrition Academy Postgraduate Course 2023

### "Early Life and Long-term Health"

<b>Scientific Program</b>	
<b>29<sup>th</sup> June 2023</b>	
<b>9:00-9:15</b>	Bienvenida / Welcome <i>Cristina Campoy (UGR), Luis Moreno (UNIZAR), Joaquín Escribano (URV), Rosaura Leis (USC)</i>
<b>9:15-10:15</b>	<b>SESIÓN 1: Nutrición y Salud Metabólica</b> <b>WORKSHOP 1: Nutrition and Metabolic Health (ENGLISH)</b> <b>Moderadores / Chairs:</b> <i>R. Leis (USC) / J. Escribano (URV)</i>
	<i>Frecuencia de las comidas en familias y sobrepeso/obesidad en niños</i> Families' food frequency and overweight/obesity in children <i>L. Moreno (UNIZAR)</i>
	<i>Determinantes epigenéticos del riesgo metabólico en niños</i> Epigenetic determinants of metabolic risk in children <i>C. Aguilera (UGR)</i>
	<i>Resultados a largo plazo de la cirugía bariátrica en adolescentes obesos</i> Long-term results of bariatric surgery in obese adolescents <i>H. Moran-Lev (TAU)</i>
	Q & A (10 min)
<b>10:15-11:15</b>	<b>SESIÓN 2: Nutrición precoz y respuesta inmune</b> <b>WORKSHOP 2: Early Nutrition and immune response (ENGLISH)</b> <b>Moderadores / Chairs:</b> <i>C. Aguilera (UGR) / E. Larqué (UMU)</i>
	<i>Nutrición precoz y alergia alimentaria en pediatría</i> Early Nutrition and the occurrence of Pediatric Food Allergy <i>R. Berni-Canani (UNINA)</i>
	<i>LC-PUFAs y desarrollo del sistema inmune en la vida precoz</i> LC-PUFAS and early life immune development <i>P. Calder (UoS)</i>
	<i>Dieta, microbiota intestinal y enfermedades crónicas no transmisibles: diálogo a tres bandas en los IEMs</i> Diet, Gut microbiota, & non-communicable diseases: triologue in IEMs <i>E. Verduci (UNIMI)</i>
	Q & A (10 min)
<b>11:15-11:45</b>	DESCANSO / BREAK



## Early Nutrition Academy Postgraduate Course 2023

### "Early Life and Long-term Health"

#### Scientific Program

29<sup>th</sup> June 2023

11:45-13:30	<b>SESIÓN 3: Genética, metabolismo y "eje Microbioma Oral e Intestinal – cerebro"</b> <b>WORKSHOP 3: Genetics, Metabolism and "Oral &amp; Gut Microbioma-Brain axis" (ENGLISH)</b> <b>Moderadores / Chairs: A. Suárez (UGR) / C. Campoy (UGR)</b>	
	<i>Eje Microbiota-intestino-cerebro en la vida perinatal</i> Microbiota-gut-brain axis in perinatal life	M. Rodríguez-Aburto (UCC)
	<i>Microbiota basal y consecuencias a largo plazo</i> Basal Microbiota and later consequences	Ascensión Marcos (ICTAN-CSIC)
	<i>Papel de la histidina en el funcionamiento del "eje microbiota-intestino-cerebro"</i> Role of histidine in the "microbiota-gut-brain-axis" functioning	Antonio Suárez (UGR)
	<i>Papel de la dentición y la microbiota oral en el desarrollo cerebral</i> Role teething and oral microbiota in brain development	Pablo Galindo (UGR)
	<i>Microbiota intestinal en la enfermedad celíaca en Pediatría</i> Gut Microbiota in pediatric celiac disease	Rosaura Leis (USC)
	Q & A (10 min)	
13:30-15:00	<b>Lunch</b>	
15:00-16:00	<b>SESIÓN 4: Nutrición Prenatal y neurodesarrollo (SPANISH)</b> <b>WORKSHOP 4: Prenatal nutrition and neurodevelopment (SPANISH)</b> <b>Moderadores / Chairs: M.J. Cabero (UC) / A. Catena (UGR)</b>	
	<i>Efectos de la diabetes gestacional sobre el neurodesarrollo en los hijos a los 8 años de edad, y asociación con el estado nutricional de lípidos (GD-BRAIN)</i> Effects of gestational diabetes on neurodevelopment in children at 8 years old and relationship with their lipid status (GD-BRAIN)	E. Larqué (UMU)
	<i>Importancia del cluster genético de las FADS en el neurodesarrollo</i> Importance of FADS gene cluster in neurodevelopment	C. Campoy (UGR)
	<i>Nuevas fuentes para la suplementación de Vitamina D y E durante la gestación</i> New sources of vitamin D and E supplementation during pregnancy	E. Larqué (UMU)
	Q & A (10 min)	



## Early Nutrition Academy Postgraduate Course 2023

### "Early Life and Long-term Health"

#### Scientific Program

**29<sup>th</sup> June 2023**

16:00-17:30	<p><b>SESIÓN 5: Investigación en diferentes patologías pediátricas (SPANISH)</b>  <b>WORKSHOP 5: Researching in different pediatric pathologies (SPANISH)</b>  <b>Moderadores / Chairs: A. Santamaría (ORDESA) / J. Maldonado (UGR)</b></p>	
	<p><i>Utilidad de la proteína S100B como biomarcador de daño cerebral en pediatría</i>  Usefulness of S100B protein as biomarker of brain injury in pediatrics</p>	<p>A. Muñoz-Hoyos (UGR)</p>
	<p><i>Efectos beneficiosos de la melatonina en el tratamiento de niños con asfixia</i>  Beneficial effects of melatonin treatment in infants with asphyxia</p>	<p>A. Jerez (UGR)</p>
	<p><i>Metaboloma en el niño con enfermedad celíaca</i>  Metabolom in children's celiac disease</p>	<p>J. Maldonado (UGR)</p>
	<p><i>Papel del estilo de vida en el niño con cáncer</i>  The role of lifestyle in childhood cancer</p>	<p>D. Petrova (Ibs.Granada)</p>
	<p>Q &amp; A (10 min)</p>	
17:30-18:00	<p><b>Sesión especial</b>  <b>Special Session (SPANISH)</b>  <b>Chair: C. Campoy (UGR)</b></p> <p><i>Nuevas estrategias para disminuir la pobreza alimentaria y mejorar la salud infantil en nuestro entorno</i>  New strategies to diminish food poverty and improving infant health in our environment  M. Rivero (CAFS)</p>	
	<p><b>CLAUSURA / CLOSING</b></p>	

**SPEAKERS & CHAIRS (in alphabetical order):**

**Prof. Concepción Aguilera, PhD**

Department of Biochemistry and Molecular Biology  
University of Granada (UGR), Spain

**Prof. Roberto Berni-Canani, MD, PhD**

Associate Professor of Pediatrics, MD, PhD  
Department of Translational Medical Science  
University of Naples Federico II (UNINA), Italy

**Prof. M<sup>a</sup> Jesús Cabero, MD, PhD**

Department of Medical Sciences and Surgery  
University of Cantabria (UC), Spain

**Prof. Philip Calder, BSc (Hons), PhD**

Head of the School of Human Development and Health, Faculty of Medicine  
Department of Nutritional Immunology  
University of Southampton (UoS), UK

**Prof. Cristina Campoy, MD, PhD**

Head of the Department of Paediatrics  
Coordinator of NUTRENVIGEN-G+D Factors Master's Degree  
Director of Cathedra ORDESA-UGR  
University of Granada (UGR), Spain

**Prof. Andrés Catena, PhD**

Department of Experimental Psychology  
Faculty of Psychology, University of Granada (UGR), Spain

**Prof. Joaquín Escribano, MD, PhD**

Department of Medicine and Surgery  
University Rovira i Virgili, Tarragona (URV), Spain

**Prof. Pablo Galindo, PhD**

Department of Stomatology. Faculty of Odontology  
Universidad de Granada (UGR), Spain

**Prof. Elvira Larqué, PhD**

Department of Animal Physiology.  
Faculty of Biology. University of Murcia (UMU), Spain  
Member of the Alexander von Humboldt Foundation

**Prof. Rosaura Leis, MD, PhD**

Department of Paediatrics  
University of Santiago de Compostela, (USC), Spain

**Prof. José Maldonado, MD, PhD**

Department of Pediatrics  
University of Granada (UGR), Spain

**Prof. Ascensión Marcos, PhD**

Director of the Immuno-Nutrition Group  
Instituto de Ciencia y Tecnología de los Alimentos (ICTAN) – CSIC, Madrid, Spain

**SPEAKERS & CHAIRS (in alphabetical order) (continued):**

**Dr. Hadar Moran-Lev, MD**

Pediatric Gastroenterology Unit - "Dana-Dwek" Children's Hospital  
Tel Aviv Sourasky Medical Center  
Sackler Faculty of Medicine, Tel Aviv University (TAU), Israel

**Prof. Luis Moreno, MD, PhD**

Department of Paediatrics.  
Director of GENUT  
University of Zaragoza (UNIZAR), Spain

**Prof. Antonio Muñoz-Hoyos, MD, PhD**

Department of Pediatrics  
University of Granada (UGR), Spain

**Dr. Dafina Petrova, PhD**

Instituto de Investigación Biosanitaria, ibs.GRANADA  
Escuela Andaluza de Salud Pública, Granada (UGR), Spain

**Dr. Montserrat Rivero-Urgell, PhD**

President of the Catalan Association of Food Sciences (CAFS)  
Director of Centre of Studies of the Food Bank  
Barcelona, Spain

**Prof. María Rodríguez Aburto, PhD**

APC Microbiome. Department of Anatomy and Neuroscience  
University College Cork (UCC), Cork, Ireland

**Dr. Alicia Santamaría, MSc, PhD**

International Scientific Marketing Manager  
Laboratorios ORDESA, S.L. Barcelona, Spain

**Prof. Antonio Suárez, PhD**

Department of Biochemistry and Molecular Biology  
Biomedical Research Centre (CIBM)  
University of Granada, Spain

**Prof. Elvira Verduci, MD, PhD**

Department of Pediatrics, Vittore Buzzi Children's Hospital  
Department of Health Sciences. University of Milan (UNIMI), Italy  
Member of the ESPGHAN CoN



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### Cátedra ORDESA-University of Granada



### NUTRENVIGEN-G+D Factors Master's Degree.

"Condicionantes Genéticos, Nutricionales y Ambientales del Crecimiento y Desarrollo".

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