XII ISIN
Conference on Immunonutrition
July 14th-16th 2021
Online

Pre-conference Course
July 12th-13th 2021
Online

CONFERENCE PROGRAM

BARCELONA 2021
Wednesday 14th July

11.00 - 12.30 h. Session 1. Conference Opening

Conference Hall

11.00 - 11.30 h. Opening Ceremony

**Speakers:**

Ascensión Marcos  

Philip C. Calder  
*Faculty of Medicine. University of Southampton. United Kingdom.*

Francisco José Pérez Cano  
*Department of Biochemistry and Physiology. Faculty of Pharmacy and Food Science. University of Barcelona. Spain.*

Margarida Castell Escuer  
*Department of Biochemistry and Physiology. Faculty of Pharmacy and Food Science. University of Barcelona. Spain.*

11.30 - 12.00 h. Healthy diet for a healthy life

**Speaker:**

Rosa Lamuela  

12.00 - 12.20 h. Discussion

**Chair:**

Margarida Castell Escuer  
*Department of Biochemistry and Physiology. Faculty of Pharmacy and Food Science. University of Barcelona. Spain.*

12.20 - 12.30 h. Break

12.30 - 14.30 h. Session 2. Diet and Immunity in Gestation and Lactation

Conference Hall

12.30 - 13.00 h. Influence of diet and obesity on immunity during pregnancy

**Speaker:**
Kirstin Laitinen  
University of Turku, Finland.

13.00 - 13.30 h. Vitamin D and immunity during gestation and beyond  

**Speaker:**  
Martin Hewison  
University of Birmingham, United Kingdom.

13.30 - 14.00 h. Immunomodulatory activity of oligosaccharides in breast milk and infant formula  

**Speaker:**  
Johan Garssen  
Utrecht University, The Netherlands.

14.00 - 14.20 h. Discussion  

**Chair:**  
Francisco José Pérez Cano  
Department of Biochemistry and Physiology, Faculty of Pharmacy and Food Science, University of Barcelona, Spain.

14.20 - 14.30 h. Break

14.30 - 17.00 h. Session 3. Hallmarks of IgE-mediated food allergy – What is the role of nutritional intervention?  

Conference Hall

14.30 - 15.00 h. Coffee Break

15.00 - 15.30 h. Biomarkers and pathways associated with IgE-mediated food allergy development  

**Speaker:**  
Caroline Childs  
Human Development and Health, Faculty of Medicine, University of Southampton, United Kingdom.

15.30 - 16.00 h. The beneficial role of the human microbiome in IgE-mediated food allergy  

**Speaker:**  
María Carmen Collado
16.00 - 16.30 h. Microbiota and non-IgE cow’s milk protein allergy under a restricted diet, as an example of the role of nutritional intervention.

**Speaker:**

Susana Delgado Palacio  

16.30 - 16.50 h. Discussion

**Chair:**

Philip C. Calder  
*Faculty of Medicine. University of Southampton. United Kingdom.*

16.50 - 17.00 h. Break

16.00 - 17.00 h. Abstract Presentation Test Run 1

Oral Presentation Test Run Room

17.00 - 18.30 h. Session 4. Oral Presentations - 1

Oral Presentations Room

**Trabajos a presentar:**

451/10 Nutritional and Biological action of polyphenol-extracts from Colombian Passiflora ligularis Juss: in vivo study to evaluate weight gain and inflammation control

J. Carmona Hernández¹, J. Restrepo-López², J. Angel-Isaza², C. Gonzalez-Correa²

(1) Grupo de Investigación Médica. Universidad de Manizales, (2) Universidad de Caldas

451/26 Antioxidant, anti-inflammatory, and immunomodulatory effects of soybean peptide lunasin in macrophages and lymphocytes models

B. Hernández Ledesma¹, S. Paterson Moreno¹, S. Fernández-Tomé², P. Indiano-Romacho¹

(1) Institute of Food Science Research (CIAL, CSIC-UAM), (2) Servicio de Aparato Digestivo. Hospital Universitario de La Princesa

451/28 Galactooligosaccharide fibres exert immunomodulatory properties and
interfere with riboflavin derivatives in an ex-vivo study

S. Del Fabbro¹, C. Childs¹

(1) University of Southampton

451/40 Glycaemic control, cytokines and vitamin D in adults with type 2 diabetes mellitus in Mexico

R. Valdés-Ramos¹, M. Román Casas¹, B. Martinez-Carrillo¹, A. Guadarrama-López²

(1) Facultad de Medicina. Universidad Autónoma del Estado de México, (2) Clínica Multidisciplinaria de Salud y Facultad de Medicina. Universidad Autónoma del Estado de México

451/41 Interplay between dendritic and T cells in response to membrane vesicles from gut beneficial microbes

N. Diaz Garrido¹, C. Cordero Alday¹, Y. Olivo¹, J. Badía Palacín², L. Baldomà Llavinés³

(1) PhD student, (2) IP1, (3) IP2

451/43 An antioxidant-enriched diet is beneficial in Alzheimer Disease triple transgenic mice but harmful in non-transgenics

N. Ceprian¹, B. Garcia-Solis², E. Díaz-Del Cerro³, L. Gimenez-Llort?, M. de la Fuente³


451/70 Association of high calcitriol with clinical/renal activity in vitamin D serum deficient-systemic lupus erythematosus patients

M. Meza-Meza¹, A. Ruiz-Ballesteros², B. Vizmanos-Lamotte³, I. Parra-Rojas?, J. Muñoz-Valle?, U. de la Cruz Mosso²

(1) Grupo de Inmunonutrición y Genómica Nutricional en las Enfermedades Autoinmunes; CUCS, UDG., (2) Grupo de Inmunonutrición y Genómica Nutricional en las Enfermedades Autoinmunes, CUCS, UDG., (3) Instituto de Nutrigenética y Nutrigenómica Traslacional, CUCS, UDG., (4) Laboratorio de Investigación en Obesidad y Diabetes, Facultad de Ciencias Químico-Biológicas, UAGro, (5) Instituto de Investigación en Ciencias Biomédicas, CUCS, UDG.

17.00 - 18.00 h. Oral Abstract Presentations

18.00 - 18.30 h. Discussion

Chair:

Liseti Solano
Thursday 15th July

10.30 - 12.30 h. Session 5. Oral Presentations - 2

Oral Presentations Room

Trabajos a presentar:

451/34 N-3-Polyunsaturated Fatty Acids-Enriched Eggs Consumption Increases Serum Concentrations of E-Series Resolvins in Young Healthy Participants

N. Kolobaric¹, A. MATTI², P. ŠUŠNJARA¹, M. MIHALJ¹, I. Drenjancevic¹

(1) Faculty of Medicine, Josip Juraj Strossmayer University of Osijek

451/37 Dietary supplementation with spray-dried animal plasma presents neuroprotective effects in senescence mice

C. Rosell Cardona¹, L. Miró, J. Polo², C. Amat³, M. Moretó³, A. Pérez-Bosque

(1) Facultat de Farmàcia i Ciències de l’Alimentació, (2) APC-Europe, SLU, Spain, (3) Departament de Bioquímica i Fisiologia, Facultat de Farmàcia i Ciències de l’Alimentació, UB

451/38 Dietary plasma protein supplementation ameliorates intestinal infection by Escherichia coli in young mice

L. Miró¹, C. Rosell Cardona, J. Polo², C. Amat¹, M. Moretó¹, A. Pérez-Bosque

(1) Departament de Bioquímica i Fisiologia, Facultat de Farmàcia i Ciències de l’Alimentació (UB), (2) APC-Europe, S.L.U, Spain

451/39 Immunonutritional agonists from S. hispanica L improve innate immune control of the alterations at central nervous system during hepatocarcinogenesis

J. Laparra Llopis¹, A. García-Tejedor²

(1) MADRID INSTITUTE FOR ADVANCED STUDIES IN FOOD (IMDEA FOOD), (2) VALENCIAN INTERNATIONAL UNIVERSITY

451/42 Systemic pro-inflammatory cytokines’ level following 7-day high-salt diet in healthy young individuals

Z. Mihaljevi?¹, A. Knezovi?², P. ŠUŠNJARA¹, M. Mihalj¹, I. Drenjan?evi?¹, A. Stupin¹

(1) Department of Physiology and Immunology, Faculty of Medicine J.J. Strossmayer University of Osijek,
Changes in the immune composition of breast milk during the transition period.

K. Rio Aige¹, I. Azagra-Boronat², M. Selma Royo³, M. Rodríguez Lagunas?, M. Collado³, F. Pérez Cano?

1. Universidad de Barcelona. Facultad de Farmacia. Sección de Fisiología, (2) Departament de Bioquímica i Fisiologia, Facultat de Farmàcia, UB; INSA-UB, Barcelona, (3) Institute of Agrochemistry and Food Technology (IATA-CSIC), National Research Council, Valencia, (4) Departament de Bioquímica i Fisiologia, Facultat de Farmàcia i Ciències de l'Alimentació, UB

10.30 - 12.00 h. Oral abstract presentations

12.00 - 12.30 h. Discussion

Chair:
Francisco José Pérez Cano
Department of Biochemistry and Physiology. Faculty of Pharmacy and Food Science. University of Barcelona. Spain.


Conference Hall

12.30 - 13.00 h. Update on Micronutrients, Immunity and COVID-19

Speaker:
Philip C. Calder
Faculty of Medicine. University of Southampton. United Kingdom.

13.00 - 13.30 h. Focus on Zinc: role in immunity and COVID-19

Speaker:
Lothar Rink
Institute of Immunology. Germany.

13.30 - 14.00 h. Micronutrients in the clinical setting during COVID-19 pandemic

Speaker:
Teresa María Tomasa-Irriguible

14.00 - 14.20 h. Discussion
Chair:

Wilson Savino
Oswaldo Cruz Institute. Member of the Brazilian Academy of Sciences. Brasil.

14.20 - 15.00 h. Round Table (ISIN Board)

Conference Hall

14.20 - 14.50 h. ISIN position about dietary components and COVID. ISIN Board.

14.50 - 15.00 h. Break

15.00 - 17.00 h. Session 7. Diet and immunity in non communicable diseases

Conference Hall

15.00 - 15.30 h. DHA in oxidation and inflammation

Speaker:

Jaume Borrás

15.30 - 16.00 h. Adipose tissue and obesity. Burning fat to fight against diabetes

Speaker:

Laura Herrero
University of Barcelona. Spain.

16.00 - 16.30 h. Polyunsaturated fatty acids and inflammatory bowel disease

Speaker:

Andrea Belluzzi
University of Bologna. Italy.

16.30 - 16.50 h. Discussion

Chair:

Laurence Harbige
Lipidomics and Nutrition Research Centre. London Metropolitan University. United Kingdom.

16.50 - 17.00 h. Break

16.00 - 17.00 h. Abstract Presentation Test Run 2
Oral Presentation Test Run Room

17.00 - 18.30 h. Session 8. Genetics, Life style and Immune System

Conference Hall

17.00 - 17.30 h. Immune sexual dimorphism

Speaker:

Faas M
University of Groningen. The Netherlands.

17.30 - 18.00 h. Exercise and lifestyle on immune system

Speaker:

Ana Teixeira
University of Coimbra. Portugal.

18.00 - 18.30 h. Discussion

Chair:

Ignasi Azagra-Boronat
Department of Biochemistry and Physiology, Faculty of Pharmacy and Food Science. University of Barcelona. Spain.
Friday 16th July


Oral Presentations Room

Trabajos a presentar:

451/19 Investigation the impact of dietary emulsifiers on intestinal epithelial cells responses and inflammation.

G. Saiz Gonzalo¹, A. Fanning¹, S. Joyce, S. Melgar¹

(1) APC Microbiome

451/49 Effect of Mediterranean diet on the disability of hospitalized older adults following an exercise intervention

A. Tor Roca¹, J. Mayordomo-Cava², C. Andrés-Lacueva¹, J. Serra-Rexach², M. Urpí³

(1) Biomarkers and Nutrimetabolomics Laboratory. University of Barcelona, Barcelona, Spain., (2) Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, Spain.

451/51 Vitamin-D deficiency is more common in UK black people and a possible COVID-19 risk factor.

A. Sobczynska-Malefora¹, L. Harbige², D. Steed³, E. MacMahon?, M. Shankar-Hari?, D. Harrington¹

(1) The Nutristasis Unit, Viapath, St. Thomas' Hospital, London; King's College London, (2) Lipidomics and Nutrition Research Centre, London Metropolitan University, London, UK, (3) Application Management Services, Viapath, St. Thomas' Hospital, London, UK, (4) GSTT NHS Foundation Trust, London, UK; King's College London, London, UK

451/54 Cocoa modulates mesenteric lymph nodes composition and function in rats submitted to acute running exercise

P. Ruiz¹, M. Massot-Cladera¹, I. Azagra-Boronat¹, Á. Franch Masferrer¹, F. Pérez Cano¹, M. Castell Escuer²

(1) Secció de Fisiologia, Facultat de Farmàcia, Universitat de Barcelona (UB); INSA-UB, (2) Secció de Fisiologia, Facultat de Farmàcia, Universitat de Barcelona (UB); INSA-UB; CIBEROBN

451/61 The relationship of lifestyle determinants with immunological and hormonal biomarkers in adolescents with Down syndrome. The UP&DOWN Study

S. Gómez Martínez¹, A. Gutierrez-Hervas², R. Izquierdo-Gómez³, Ó. Veiga?, A. Marcos¹
10.30 - 12.00 h. Oral Abstract Presentations

12.00 - 12.30 h. Discussion

Chair:
Ángels Franch Masferrer
Department of Biochemistry and Physiology, Faculty of Pharmacy and Food Science. University of Barcelona. Spain.

12.30 - 15.00 h. Session 10. Probiotics and Polyphenols in Immunity and Inflammation

Conference Hall

12.30 - 13.00 h. Host microbiota interactions in relation to infection and inflammation

Speaker:
Silvia Melgar
University College Cork. Ireland.

13.00 - 13.30 h. How probiotics can immunomodulate: from animals to humans

Speaker:
Julio Gálvez
University of Granada. Spain.

13.30 - 14.00 h. Polyphenols and neuroinflammation

Speaker:
Emilio Jirillo
University of Bari. Italy.

14.00 - 14.30 h. Could moderate beer consumption have an effect on gut microbiota composition? Results from the Almicrobhol observational study.

Speaker:
Esther Nova
14.30 - 14.50 h. Discussion

Chair:

María José Rodríguez Lagunas
Department of Biochemistry and Physiology, Faculty of Pharmacy and Food Science, University of Barcelona. Spain.

14.50 - 15.00 h. Break

15.00 - 16.30 h. Session 11. Closing session

Conference Hall

15.00 - 15.30 h. Benefits of a healthy diet: epidemiological and molecular aspects

Speaker:

Lluis Serra Majem
Professor of Preventive Medicine and Public Health. Las Palmas de Gran Canaria University. Spain.

15.30 - 15.50 h. Discussion

Chair:

Ascensión Marcos

15.50 - 16.30 h. Awards and Closing Ceremony

Speakers:

Ascensión Marcos

Philip C. Calder
Faculty of Medicine. University of Southampton. United Kingdom.

Francisco José Pérez Cano
Department of Biochemistry and Physiology. Faculty of Pharmacy and Food Science. University of Barcelona. Spain.

Margarida Castell Escuer
Department of Biochemistry and Physiology. Faculty of Pharmacy and Food Science. University of Barcelona. Spain.