

2022

Program 15th Congress ISNN 2022, Monterrey, Mexico		
Day / Hour	Speaker	Topic
<b>November 17th</b>		
<b>ISNN 2022 Training course (Spanish)</b>		
<b>Session 1 (8:30 - 10:50 h)</b>		
<b>Chairs:</b>	<b>Dr. Elizabeth Solís / Dr. Manuel López Cabanillas</b>	
8:40 - 9:20 h	Dr. María del Pilar Pozos Parra (Mexico)	Machine learning in nutrition research
9:20 - 9:40 h	Dr. Hugo Leonid Gallardo Blanco (Mexico)	GWAS, genotyping and sequencing
9:40 - 10:00 h	Dr. Fermín I. Milagro (Spain)	miRNAs and transcriptomics
10:00 - 10:20 h	Prof. J. Alfredo Martínez (Spain)	Nutrigenetic and metagenomic in obesity
10:20 - 10:50 h	Questions	
10:50 - 11:20 h	<b>Break</b>	
<b>Session 2 (11:20 - 13:30 h)</b>		
<b>Chairs:</b>	<b>Dr. Ana Laura de la Garza / Dr. Zacarías Jiménez Salas</b>	
11:20 - 12:00 h	Dr. Garbiñe Saruwatari (Mexico)	Ethical aspects in nutritional genomics
12:00 - 12:20 h	Dr. Elizabeth Tejero (Mexico)	Omics sciences in precision nutrition
12:20 - 12:40 h	Dr. Oscar Omar Ramos López (Mexico)	Genetics and epigenetics of olfaction in nutrition and obesity
12:40 - 13:00 h	Dr. Ana Gabriela Aguilar Lozano (Mexico)	Applied epigenetics
13:00 - 13:30 h	Questions	
<b>ISNN 2022 15 Congress: "From Nutriomics to Translational Nutrition"</b>		
<b>Opening ceremony</b>		
16:00 - 16:15	Dr. Louis Pérusse, Dr. Manuel López Cabanillas	Welcome remarks: ISNN 2022
16:15 - 17:00 h	Dr. Louis Pérusse (Canada)	<b>Opening lecture:</b> The emerging contribution of mediation analysis to understand the role of nutrition and lifestyle in mediating genetic susceptibility to obesity.
<b>Session 1 (17:15 h - 19:00 h)</b>		
<b>Nutrigenetics and epigenetics in health and disease</b>		
<b>Chairs:</b>	<b>Dr. Fermín I. Milagro / Dr. Alhelí Hernández Tobías</b>	
17:15 - 17:35 h	Dr. Lu Qi (USA)	Nutrigenetics and epigenetics in precision diet interventions.
17:35 - 17:55 h	Dr. Laura Martínez Garza (Mexico)	Folic acid intake and methylation status of genes associated to risk of cardiopathies.
17:55 - 18:15 h	Prof. J. Alfredo Martínez (Spain)	Epigenetics and Mediterranean diet.
18:15 - 18:35 h	Dr. Katherine Livingstone (Australia)	Virtual - Personalised nutrition and nutrigenetics - unpacking the evidence.
18:35 - 19:00 h	Questions	

## November 18th

8:00 - 9:00 h	Dr. Zacarías Jiménez	Parallel networking sessions about Nutrigenetics & Nutrigenomics in Iberoamerican countries (by invitation).
<b>Session 2 (9:00 h - 10:40 h) Nutrigenomics in health and disease</b>		
<b>Chairs: Dr. Chandan Prasad / Dr. Elizabeth Tejero</b>		
9:00 - 9:20 h	Dr. Tania Aguilar López (Mexico)	FMO3 gene as regulator of TMAO levels in cardiovascular disease.
9:20 - 9:40 h	Dr. David Mutch (Canada)	A transcriptomic investigation of omega-3 fatty acid metabolism in mouse adipocytes uncovers a novel role for $\Delta$ -6 desaturase.
9:40 - 10:00 h	Dr. Daniel Campos (Mexico)	Are genetic tests useful in nutrigenomics?
10:00 - 10:20 h	Dr. Saroja Voruganti (USA)	Virtual - Genetic variation underlying the differential response to sugar-sweetened beverage intake.
10:20 - 10:40 h	Questions	
10:40 - 11:30 h	<b>Break</b>	
<b>Poster presentations</b>		
<b>Session 3 (11:30 h - 13:10 h) Metabolomics in health and disease</b>		
<b>Chairs: Dr. Juan de Toro-Martín / Dr. Alexandra Tijerina</b>		
11:30 - 11:50 h	Dr. Paola Casanello (Chile)	The first 1000 days as an opportunity for interventions to prevent childhood obesity in the offspring of women with gestational obesity.
11:50 - 12:10 h	Dr. Felipe Vadillo (Mexico)	Characterization of metabolotypes in children using metabolomics.
12:10 - 12:30 h	Dr. Laura del Bosque (Mexico)	Clinical, metabolomic and proteomic data integration to accurately diagnose diabetic kidney disease.
12:30 - 12:50 h	Dr. Miguel Ruiz Canela (Spain)	Virtual - Metabolomics, type-2 diabetes and cardiovascular disease: results from the PREDIMED trial.
12:50 - 13:10 h	Questions	
13:10 - 14:30 h	<b>Lunch</b>	
13:10 - 14:30 h	Meeting Board ISNN (in-person and virtual - by invitation)	
<b>Oral communications Dr. Ana Gabriela Aguilar Lozano</b>		
14:30 - 15:30 h	Rebeca Rosas Campos, Mexico	Moringa Oleifera improves MAFLD by inducing epigenetic modifications in a murine model of non-alcoholic steatohepatitis.
	E. Gauthier, Canada	Comparison of weighted and unweighted genetic risk scores predicting the plasma triglyceride responsiveness to an omega-3 fatty acid supplementation.
	Diego García Díaz, Chile	The pro-thermogenic effects of Berberis Microphylla (Calafate) extract in mice fed a high-fat diet are dependent on the presence of gut microbiota.
	Zacarías Jimenez, Mexico	SNPs of ABCA1 (rs9282541) and PPARgamma (rs1801282) genes are related with serum lipid profile in adult women from Mexico.
	Guiomar Masip, Canada	Plant-based dietary patterns, genetic susceptibility and cardiometabolic traits in the CARTaGENE Biobank.
<b>Sponsored conference NutriADN</b>		
15:30 - 16:00 h	Dr. Santiago March Mifsut (NutriADN)	Multomics and Nutrition: the future is now
<b>Parallel networking session</b>		
15:00 - 16:00 h	Dr. Chandan Prasad	Parallel networking sessions about Nutrigenetics & Nutrigenomics capabilities (by invitation).
<b>Cultural event</b>		
16:00 - 17:00 h	<b>UANL Folkloric Ballet</b> (Compañía Titular de Danza Folklórica UANL)	

## November 19th

### Session 4 (9:00 h - 10:40 h)

### Metagenomics in health and disease

#### Chairs:

**Dr. Louis Pérusse / Dr. Ulises de la Cruz**

9:00 - 9:20 h

Dr. Fermín Milagro (Spain)

Gut metagenomic information in the implementation of precision nutrition.

9:20 - 9:40 h

Dr. Sofia Moran (Mexico)

Gut microbiome and metabolic health in school age children: perspectives for dietary interventions.

9:40 - 10:00 h

Dr. Katie Meyer (USA)

Gut microbiota pathways to cardiovascular disease in population-based studies

10:00 - 10:20 h

Dr. Ellen Blaak (Netherlands)

Virtual - Precision nutrition based on metabolic phenotype in the prevention of chronic metabolic diseases.

10:20 - 10:40 h

Questions

10:40 - 11:30 h

#### Break

#### Poster presentations

### Session 5 (11:30 h - 13:10 h)

### Foodomics and personalized nutrition

#### Chairs:

**Dr. Marie-Claude Vohl / Dr. Barbara Vizmanos**

11:30 - 11:50 h

Dr. Daniel Alberto Jacobo V. (Mexico)

Designing effective nutraceutical combinations against chronic degenerative diseases.

11:50 - 12:10 h

Dr. Alberto Dávalos (Spain)

Virtual: miRNAs and extracellular vesicles from diet as novel players for personalization.

12:10 - 12:30 h

Dr. Diego García Díaz (Chile)

Calafate (*Berberis microphylla*), a Chilean native berry: is it suitable to consider it for personalized nutritional approaches regarding obesity?

12:30 - 12:50 h

Dr. Rosita Gabbianelli (Italy)

Virtual - Biological age and diet: measuring the impact of lifestyle on epigenetics.

12:50 - 13:10 h

Questions

### Closing ceremony

13:10 - 13:40 h

Dr. Elizabeth Tejero (Mexico)

The application of omics in nutrition. Present and future.

13:40 - 14:00 h

Dr. Louis Pérusse / Dr. Elizabeth Tejero / Dr. Alfredo Martínez

Final remarks