



The gut-microbiome-liver axis during disease

Thursday, May 11, 2023 at 4:00 p.m.

Summary:

There are increasing evidence of the close association between liver disease and intestinal dysfunction that includes drastic changes in the gut microbiome composition and function. Research in my lab aims at understanding the mechanisms mediating the communication between the gut, the microbiome and the liver during health and disease.

We are currently focusing our research on how microbes interact with the immune system as inflammation is essential to control the progression from homeostasis to disease. Also, we are interested in understating how cell metabolism can modulate inflammation and the interactions between the host and the microbiota.

To do this, we use in vivo pre-clinical models in combination with in vitro models, mainly using primary cells isolated from transgenic animals. As part of the translational nature of our work, we also perform analysis of human tissue samples.

Defining the mechanisms mediating how microbes interact with the gut-liver axis and modulate this communication will enable us to propose strategies to preserve health and treat disease.

Speaker:

Dra. Naiara Beraza, Quadram Institute, Norwich, UK.

Affiliation and CV Summary:

In 2004, I obtained my PhD at the University of Navarra. My interest at that time was to elucidate the mechanisms underlying liver regeneration and the role of IL-6 family of cytokines in this process.

After obtaining a post-doctoral grant, I moved to Germany in 2004 where my research at the Trautwein Lab focused on defining the role of the IKK complex subunits that regulate NF- κ B activation in the liver response to injury.

In 2009, I moved to the CICbioGUNE in Spain, as a Ramon y Cajal Fellow, where I continued developing my research aiming to understand the role of the innate immune system, specifically of NK cells, in the progression of liver disease. I also developed research focused on the role of metabolic regulators controlling cell energy in regulating the liver response to injury and the progression of chronic disease.

In 2015 I joined the Institute of Food Research (now part of the Quadram Institute) where I established my research group that focuses on investigating the mechanisms regulating the gut-liver axis to prevent and treat liver disease.

Organizers:

Grupo de Investigación en Patología Digestiva. Instituto de Investigación Sanitaria Aragón (IIS Aragón). Facultad de Medicina, Universidad de Zaragoza

Inscripción ONLINE

https://us02web.zoom.us/webinar/register/WN_esqemAyDRE-mOQ1a2HLRww

Inscripción PRESENCIAL

<https://forms.gle/XKRVTP3abRWnzckm7>

 Place: Aula 8 Edificio A, Facultad de Medicina. UNIZAR, Zaragoza.

 Date: May 11, 2023 at 16:00