

SIMPOSIO DE ESPECTROMETRÍA DE MASAS, RESONANCIA MAGNÉTICA, SECUENCIACIÓN DEL GENOMA: Nuevos caminos para la industria y las universidades del siglo XXI

8 y 9 de septiembre de 2017

Pablo Martínez-Lozano Sinues

Pablo is a chemist (University of Murcia, Spain) and holds a PhD in Mechanical Engineering (University Carlos III, Spain). He performed his doctoral research in Madrid and at Yale University in the former lab of Prof. John B. Fenn (Nobel Prize in 2002) under the supervision of Prof. Juan Fernandez de la Mora. During this period, he got acquainted with electrospray ionization, ion mobility spectrometry and mass spectrometry. During his post-doctorate, he further developed mass-spectrometric methods for the real-time analysis of trace gases.



From 2011 to 2017 he worked at ETH Zurich (Switzerland), where he deployed these novel analytical methods in a translational research program in collaboration with the University Hospital Zurich. During these years he was very active in: 1) the development of instrumentation for real-time analysis of gases and 2) using this technology for clinical diagnosis of respiratory diseases and therapeutic monitoring via breath analysis. He eventually earned his Habilitation in analytical chemistry at the ETH.

Since 2017, Pablo holds a Tenure-Track Assistant Professor position at the University of Basel. His research group is based at the University Children's Hospital, where they are developing breath analysis methods to phenotype diseases and for therapeutic drug monitoring of pediatric patients. This is the first breath analysis platform embedded in a clinical setting at the Swiss level. Pablo is also principal investigator of the Research Network Zurich Exhalomics, which is an initiative by scientists from Zurich area with the goals to provide technical solutions for the rapid and sensitive on-line analysis of breath.

Pablo has co-authored > 40 peer-reviewed papers covering fields ranging from Engineering to Medicine. He serves on the Editorial Board of the Journal of Breath Research; and has raised more than 1.3 Million Eur for research projects (in particular based on industry-academia collaborations).