

International Symposium "Omics and Health"

**Venue: Auditorio Principal, Facultad de Ciencias, Universidad Mayor.
Camino La Pirámide 5750, Huechuraba.**

Date: May 15, 14:00-18:00 Hrs.

Advances in omics technologies, such as genomics, transcriptomics, proteomics and metabolomics, have led to personalized medicine at an extraordinarily detailed molecular level. Individually, these technologies have contributed to medical advances that have begun to be incorporated into clinical practice. However, each technology individually cannot capture all the biological complexity of most human diseases. The combined utilization of clinical information with multiple Omics data is a powerful approach that provides a wider and more comprehensive view about disease biology in diverse models. In this workshop, we will discuss the benefits of integrating different types of Omics data and their impact biomedical research. The lecturers will share examples of problems and approaches where the integration of Omics data is a key component to understand, diagnose and report the treatment of diseases. Finally, we will discuss capacity building, scientific and technical challenges for the implementation of omics strategies in clinical practice.

Keynote Speakers:

- Daniela Aliaga Goltsman, Stanford University, USA.

"Elucidating the role of microbial communities in gestational health using sequencing-based approaches"

- Ricardo Verdugo, Universidad de Chile.

"The ChileGenómico Project: understanding the genetic variation of Chileans and its relevance for population health"

- Tom Wishart, The Roslin Institute, University of Edinburgh, Scotland, UK.

"Proteomic profiling of differentially vulnerable neuronal populations during normal healthy ageing in primates"

- Maica Llaveró, The Roslin Institute, University of Edinburgh, Scotland, UK.

"Proteomic data handling strategies for the identification of mechanisms underlying neurodegeneration"

Organizers:



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