



Instituto de Bioquímica y Microbiología
Universidad Austral de Chile, Valdivia

INTERNATIONAL WORKSHOP
28 – 30 November 2016

BIOSTATISTICAL ANALYSIS OF GENETIC VARIANTS

Prof. Dr. Justo Lorenzo Bermejo

www.biometrie.uni-heidelberg.de/StatisticalGenetics

Institute of Medical Biometry and Informatics

University of Heidelberg, Germany

Aims

Module participants will be able to:

- Understand the principles of genetic association studies
- Apply basic techniques to analyze genetic case control data
- Recognize population genetics as background for genetic mapping studies
- Apply methods of risk calculation

Course content

The course will cover following topics:

- Design of studies in Genetic epidemiology
- Power considerations and multiple testing
- Confounding in genetic association studies
- Use of genotypes from public databases

The workshop is designed as a mixture of short lectures and practical exercises.
Real data will be analyzed to illustrate theoretical concepts.

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Acknowledgement: Ministerio de Educación e Investigación BMBF Alemania; Dirección de Investigación y Desarrollo DID, Instituto de Bioquímica y Microbiología y Escuela Graduados, Facultad de Ciencias, UACH

