



INTERNATIONAL WORKSHOP
13th – 15th November 2017
Instituto Bioquímica y Microbiología,
Universidad Austral de Chile, VALDIVIA

BIOSTATISTICAL ANALYSES OF GENETIC VARIANTS

Prof. Dr. Justo Lorenzo Bermejo

Aims

After the course, participants will:

- Recognize population genetics as background for genetic mapping studies
- Understand the principles of genetic association studies
- Be able to apply basic techniques to analyze genetic case control data
- Be able to apply methods of risk calculation and Mendelian Randomization

Contents

- The course will cover following topics:
 - Study designs in genetic epidemiology
 - Confounding in epidemiological and in genetic association studies
 - Power considerations and multiple testing
 - Use of genotype data from public repositories

The workshop is designed as a mixture of short lectures and practical exercises.
Real data will be analyzed to illustrate theoretical concepts, please bring your own laptop!

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