



Instituto de Bioquímica y Microbiología  
Universidad Austral de Chile, Valdivia

INTERNATIONAL WORKSHOP  
28 – 30 November 2016

# BIostatistical ANALYSIS OF GENETIC VARIANTS

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[www.biometrie.uni-heidelberg.de/StatisticalGenetics](http://www.biometrie.uni-heidelberg.de/StatisticalGenetics)

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## 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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