



Swiss Tropical Institute
Institut Tropical Suisse
Schweizerisches Tropeninstitut

Gesundheitswesen &
Epidemiologie

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Biostatistics Unit

Course in Biostatistics II

The STI Biostatistics Unit of the Swiss Tropical Institute will offer a course on data analysis during the Summer semester.

The course will take place on Wednesday mornings from 5th April until July 12th 2006.

We aim to cover the following topics:

- Bayesian statistical modelling and inference
- Markov chain Monte Carlo simulation (MCMC) methods
- Generalised Linear Models
- Models for spatio-temporal data
- Models for infection dynamics
- Survival and competing risk models
- Meta-analysis of clinical trials

A background knowledge in Statistics equivalent to that achieved at the end of Biostatistics I we offer during the Winter semester will be required. The teaching language will be English.

The course is an optional part of the MSc in Infection Biology and Epidemiology offered by the Swiss Tropical Institute, however **it is also open for other University members and students**. We especially recommend it to Biomedical MSc, PhD and MD students who have an interest in quantitative data analysis. Students who wish to attend only parts of the course will be welcome but should inform the course organiser (Penelope Vounatsou).

The first session, including the pre-discussion, will be in the **Seminar 2** at **9.15** on **Wednesday 05.04.06**. The course will consist of 14 sessions, each comprised of formal teaching scheduled to be from 9.15 until 11.00 followed by practical work in the Computer Laboratory using the statistical software Stata and Winbugs.

If you would like to attend the course but cannot come to the first session please inform Penelope Vounatsou (Penelope.Vounatsou@unibas.ch).