



MEDIZINISCHE UNIVERSITÄT
INNSBRUCK

Bioinformatics course WS 2011/12
[044510, VU4; Werner ER, Werner-Felmayer G]

Monday, December 12 - Thursday, December 15, 2011
(10.00 hours to (max.) 16.00 hours).

Where Computer room of the Division of Physiology, Fritz-Pregl-Str. 3, 1.UG (basement 1)
West, (entrance close to the lift).

Begin: Monday, December 12, 2011, 10.00 hours.

CONTENT:

Use of freely available programs and servers to support molecular biological work in the lab. The course builds on examples and experiences of our own research work (chemokines, pteridines, nitric oxide). We first explain the goals, rationales and the theoretical background, before we actually use the programs. Topics covered are database use, features and motifs on mRNA, protein pattern search, open reading frames, regulatory sequences in genomes, protein coding gene prediction from genomic sequences, protein alignments, phylogenetic tree generation and degenerate primer design.

TIMETABLE OF THE COURSE:

The morning is dedicated to updates of theoretical background and the execution of a Demo-example together. Then there is a short break, and in the afternoon, every student solves his/her personal problem (until 16.00 the latest). It is required that you attend all course days.

STUDENTS come from the PhD programs of the Medical Sciences, or from Master studies in Molecular Biology.

The number of participants is limited to 10.

Students wishing to participate send an e-mail to

ernst.r.werner@i-med.ac.at

indicating the type of study and semester they are in. Basic knowledge in molecular biology is required to attend the course.

We are looking forward to your participation in our Bioinformatics course.

Ernst R. Werner

Gabriele Werner-Felmayer