



Training Courses in Genetic Engineering and Bioinformatics

offered by:

Institute of Genetic Engineering, Ecology, and Health (IGEEH), Karlsruhe, Germany
www.aecenar.com/institutes/igeeh,

TEMO Soft-, Hardware & Consulting e.K., Karlsruhe, Germany, www.temo-ek.de , and

A. Courses description

- 1. Molecular Cloning (basic techniques for working with DNA) (5 days)**
- 2. Bioinformatics for Researchers (Using Databases, Molecular Modeling) (5 days)**

All courses have a duration of 5 days (Monday – Friday). You can book independly each of these courses.

B. Participants

1. Technicians or Researchers who are new in genetic engineering techniques
2. Graduate Students who want to begin laboratory research in genetics or molecular biology
3. Other interested people

C. Training topics and outline

C.1 Molecular Cloning (basic techniques for working with DNA)

Mon	8 – 12	Theoretical background of the training course and methods, Discussion of the workflow of the training course
	13 – 18	Preparation of plates for bacteria (LB plates with ampicillin/IPTG/X-Gal, SOC medium)
Tue	8 – 12	DNA isolation, primer design for PCR
	13 – 18	PCR to isolate SRY gene
Wed	8 – 12	Agarose gel to check the PCR and isolate the PCR product
	13 – 18	Ligation of SRY gene in pGEM-T, Transformation in E.coli and plating (overnight growth)
Thu	8 – 12	Screening of E.coli colonies, inoculation of minipreps (overnight growth)
	13 – 18	Sight seeing tour
Fri	8 – 12	Miniprep of the plasmid DNA (Isolation of recombinant plasmid from E.coli cells)
	14 – 19	Restriction digest and Agarose Gel, Discussion

Manual see http://aecenar.com/download/doc_download/28-megbi-trainingcourses-i-iii-engl

C.2 Bioinformatics for Researchers (Using Databases, Molecular Modeling)

For outline see: http://www.zgoeg.de/MEGBI/downloads/doc_download/10-megbi-biotechnology-master-of-science-program , pages 43-44. (This course is a shortened version of the program described in Master Programm in Biotechnology, pp. 43-44)

D. Time of courses

The courses are starting in December 2010. Every course has a duration of 5 days and goes from Monday to Friday.

Extra course times can be booked from groups (6-10 persons) two months before if our capacity allows this.

E. Registration Fee

Fee is 750 € per person and course, which includes copies of lab manuals. **Registration deadline is 30 days before the date of starting of training course.** Training capacity does not exceed 10 persons per course.

F. Payment methods

All prices are in EURO (€). Payment by transfer or cash to TEMO e.K.
TEMO e.K., IBAN DE74660100750625406756 , SWIFT-BIC PBNKDEFF

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