

➤ Practical information

All activities take place in auditorium 'Rector Vermeylen' at 'Het Pand' in the centre of Ghent. Each session starts at 5:30 pm and lasts until 9 pm with a coffee break in between.

Module 1: Bio-informatics:

20/9: Introduction to Bio-informatics (Prof. Y. Van de Peer)

3/10: Sequence aligning and searching for homologous sequences & comparison of genes, gene families and genomes (Prof. Y. Van de Peer)

11/10: Transcript profiling and gene expression analysis, Motif and cluster recognition & Tracing co-ordinate regulated genes and gene networks (Dr. K. Marchal)

Module 2: Bio-statistics:

26/9: Introduction to maximum likelihood analysis & permutation tests (Prof. E. Goetghebeur & Dr. I. Roldan-Ruiz)

18/10: Analysis of DNA chips and micro-arrays (clustering) & pedigree analysis (Dr. L. Dehaspe & Dr. E. Van Craenenbroeck)

25/10: Quantitative trait analysis & genetic linkage maps (Dr. Ir. M. Vuylsteke)

More detailed information will be issued upon enrollment.

➤ Registration fees

<i>Payment due within 14 days following receipt of invoice</i>	1 module	2 modules (-20%)
Industry	225 ₣	360 ₣
Civil servant / Teacher (~75%)	170 ₣	270 ₣
Student (~50%)	112 ₣	180 ₣

ICES reserves the right to cancel a module in case of lack of interest.

The registration fee includes the syllabi, courses and coffee. Cancellation is possible until ten days before the start of the module, in which case 25% of the registration fee will be retained.

Participants enrolling for both modules will be given the opportunity to obtain a certificate after successful evaluation.

➤ For any further information

RUG – ICES, Krijgslaan 281 (S3), 9000 Ghent, Belgium

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E-mail: Heidi.DeDobbelaere@rug.ac.be

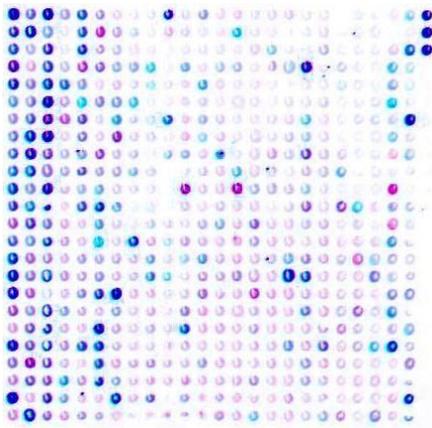
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Institute for
Continuing Education
in Science



BIO-INFORMATICS



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➤ Why Continuing Education?

We live in a rapidly evolving technological society and we are overrun with vast amounts of information and new knowledge that reaches us in a fragmented and often incoherent way. To be able to structure all these data into a meaningful whole, keeping up with the mark is a must in our society in the 21st century.

➤ What is ICES?

ICES (Institute for Continuing Education in Science) is an institute of Ghent University. In co-operation with the Faculty of Sciences and on request of external partners, we organize courses, symposia, conferences and other training activities on topical areas in science. Our lecturers are active as industrialists as well as professors in institutes of higher education. We directly attune our activities to the needs and demands prevailing in the industry. In this way ICES constitutes an important link between both the academic and industrial world.

➤ Target Group

Our courses are mainly addressed to professionals and students with an academic training, who want to freshen up their knowledge, keep up to date with the latest developments, or who want to retrain to a different area. Many activities are also open for students and staff members in higher education institutes at reduced prices.

➤ Language

The official language of ICES and all its activities is English.

➤ We value your input

Any scientific topic can form the subject of an ICES-activity if there is enough interest for it. This means we are continuously in search of people who want to contribute their expertise to one of our future activities, be it as a lecturer or a partner in organization. If you are interested be sure to let us know.

➤ Fall 2001: Course in Bio-informatics

The course consists of two optional modules:

Bio-informatics

Recently, comparative and functional genome research has produced an enormous quantity of structural and functional data. The task of bio-informatics is to process and structure such data and to transpose them into interpretable information. Being at the crossroads between biology, computer sciences and mathematics, this new field of research is crucial to the further development of fundamental and applied biology.

Features:

- Sequence aligning / Looking up homologous sequences
- Recognizing motifs and clusters (promoters, cis-transcriptional motifs, ...)
- Comparison of genes, gene families and genomes
- Transcript profiling and gene expression analysis
- Tracing co-ordinate regulated genes and gene networks
- Examples of medical, pharmaceutical and agricultural applications

Bio-statistics

The aim of bio-statistics is to detect signals in a noisy environment, to assess effects and make predictions quantifying uncertainties, to design experiments in an informative and cost efficient way. Bio-statistics allows generating and confirming hypotheses thanks to the co-operation between biomedical and logical statistical structures. It provides the means to arrange the multitude of genetic data into relevant information. This course recapitulates the basis of design and analysis using genetic applications.

- Key words: mapping associations, clustering, DNA chips and micro-arrays, quantitative trait analysis, maximum probability, pedigree analysis, permutation tests.
- The availability of software to implement these methods will be briefly discussed. The course emphasizes statistical principles rather than details of specific computer programs.

➤ Registration Form

To be sent or faxed back *before September 6th 2001* to : Mrs. H. De Dobbelaere, Ghent University – ICES, Krijgslaan 281 (S3), 9000 Ghent, Belgium
Fax +32 (0)9 264 49 83

You can also enroll by sending an e-mail with all the required information to Heidi.DeDobbelaere@rug.ac.be
Your registration through e-mail is valid after receipt of a confirming reply.

(Please use capitals)

Name :

First Name :

Function :

Company :

Address :

.....

Phone : Fax :

E-mail :

- **Yes, I enroll for the following module(s) « Bio-informatics », organized by ICES at Ghent University :**

- Bio-informatics (20/9, 3/10 & 11/10)
- Bio-statistics (26/9, 18/10 & 25/10)

I am :

- employed in the industry
- a civil servant / a teacher
- a student (Student card n°:

Invoice address (when different from the above)

Name :

Address :

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Date : Signature :

- **Yes, I would like to be registered in the ICES database as a provider of expertise in :**

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