

1. Hands-on Course in Genomics & Transcriptomics (with Shodhaka):
1 to 7 February 2010

One week program focusing on the science of genome and gene expression

2. Demystify biotechnology & bioinformatics in 6-8 hours:
31st January 2010

Learn the essence of the modern sciences about life in 6-8 hours!

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1. Genomics & Transcriptomics Course
(with hands-on sessions)



*(A submodule of Course in Biochemistry, Cell and Molecular Biology for Bioinformatics:
Advanced course in Biochemistry, Cell and Molecular Biology for Bioinformatics)*

Duration: one week (1 - 7 Feb 2010)

Venue: IBAB, Biotech Park, Electronic city, Phase I, Bengalooru – 560 100

Organized jointly by IBAB and Shodhaka

Main contents of the workshop:

A. Genomics:

1. Genome projects: History, current status and future.
2. Genomic elements and their significance.
3. Genome sequencing technologies.
4. Major web-resources for sequence analysis and gene ontology.
5. Hands on sessions in applying the bioinformatics resources.

B. Transcriptomics:

1. Microarray applications and new technologies for gene expression analysis
2. Gene expression databases and hands on exercises.
3. Exercises in microarray data processing
4. Software/platforms dealing with promoters and TFs and hands on exercises.
5. Illustration of equipment used for microarray, real time PCR and 2-D electrophoresis.
6. Primer and probe designing for simple vs. genome-wide profiling studies
7. An overview of proteomics and the relations with genomics, transcriptomics and proteomics
8. Actual research examples in transcriptomics

Notes:

1. This course will have 1 credit. Credits across different modules and sub-modules, conducted at times can be added to obtain a 'diploma in bioinformatics'. These modular

programs at IBAB are recognized and supported by the DIT, Government of India, which has recognized IBAB as a 'CENTRE OF EXCELLENCE in Bioinformatics Research and Training'.

2. Please note that the hands-on sessions are not for wet-lab components; they rather focus on case studies in silico.

Eligibility: Any degree holder with life science background

Fees (*do not include travel, accommodation and food charges; these charges will have to be borne separately by the participants*):

Individuals from company: Rs.12,000/-

For students, academic professionals and unemployed youth: Rs.7000/-

Students and unemployed youth, who may have financial limitations are likely to get further discounts. Please contact us for details (send your CV and indicate the total annual income of your family in email to: shodhaka@ibab.ac.in).

Limited seats.

The registrations begin on 18th Jan., 2010.

To complete the registrations, please obtain a DD or cheque to payable to, 'Shodhaka Life Sciences Pvt. Ltd.' and send to the following address:

Shodhaka,
IBAB, Biotech Park
(Behind 3M & next to Aravind Ltd.)
Electronic City, Phase I
Bengalooru – 560 100
Karnataka State
Ph: 080-65 31 65 65

(Note: shodhaka is a company being incubated inside IBAB; you are also welcome to visit Shodhaka during office hours and pay the fees in cash, at the above address)

Also please send an email, along with your CV and payment details. Please write to: shodhaka@ibab.ac.in

Certificates will be issued to all 'full time' participants after the workshop completion.

Course Coordinator: Dr. Kshitish Acharya

Email: shodhaka@ibab.ac.in



**2. One day course to
demystify biotechnology and bioinformatics:
31st January 2010 (Sunday)**

The course:

'Shodhaka', in association with IBAB, has arranged a carefully designed program to convey the essence of biotechnology and bioinformatics in 8 hours. The course includes talks where jargon words are avoided and plenty of animations have been used to convey the gist of subjects. The sessions will be interactive and provide an excellent opportunity to obtain an overview of science of life and its current trends. Lectures cover most of the important concepts using simple language, illustrations etc. The program also intends to provide a clear picture of what is research (applied/basic) and how is it different from some of the industrial activities, in the biotech/bioinfo sector.

Participants: This course is intended for professionals who have not studied life science in detail or those who would like to refresh their memories following a gap. Students can also attend the program.

Venue: The course will be conducted in IBAB

Shodhaka, IBAB, Bengaluru Biotech Park
(behind 3M & next to Arvind Ltd)
Electronic city, Phase- 1
Bengaluru – 560 100
Karnataka State

Date: 31st Jan., 2010 (begins at ~9.30 am and ends at ~5.30 pm). Participants should report by 9.15 am at the venue.

Fees (do not include travel, accommodation and food charges; these charges will have to borne separately by the participants):

Participants from industry/private company: Rs.2500/individual

For students, academic professionals and unemployed youth: Rs.1500/individual

Students and unemployed youth, who may have financial limitations are likely to get further discounts. Please contact us for details (send your CV and indicate the total annual income of your family in email to: shodhaka@ibab.ac.in).

Students and academic professionals should carry their official identity cards when visiting IBAB for the program.

To apply: Send a DD or cheque payable to: [Shodhaka Life Sciences Pvt. Ltd](#), to the address mentioned above. But, also send an email with details of the DD/cheque and a copy of your CV to: shodhaka@ibab.ac.in

The registrations begin on 18th Jan., 2010.

1. Reference: Acharya KK, *The Biotech-Bioinfo Interface in the Context of Education and Growth of the Biotechnology Industry in India Today* 2006
<http://www.ibab.ac.in/PDF/Biovistas%20manuscript%20final.pdf>

Certificates will be issued to all participants after the course completion.

Course Coordinator: Dr. Kshitish Acharya

Contact: shodhaka@ibab.ac.in

Other courses in near future!

1. User-end bioinformatics: *May to July 2010*

One month course, with plenty of demonstrations and hands-on sessions in different areas, which are essential for biologists with any specialization today. The areas covered include sequence analysis, gene expression analysis and identifying molecular interactions.

2. Career planning workshop: *May to July 2010*

Three days of your time can make a difference to your future! This is a specially designed workshop in career planning for all science students/freshers, particularly oriented to biotechnology and bioinformatics.

www.ibab.ac.in

www.shodhaka.in