

## APPLICATION TO REGISTER

Title ..... First Name .....  
 Family Name .....  
 Educational Background .....  
 Position .....  
 Organization .....  
 Address .....  
 .....  
 City ..... Pin Code .....  
 Tel/Cell ..... Fax .....  
 Email .....  
 Reason to join this training:  
 .....  
 .....  
 .....

### DD Details

No ..... Date .....  
 Bank .....  
 Signature .....

Application and other details may  
 be found at <http://scbb.ihbt.res.in>

**Registration Closing Date:**  
**May 21, 2010**

## REGISTRATION INFORMATION

Fee for candidates from academics and  
 research institutions: Rs 2500/-  
 Fee for candidates from Industries: Rs. 10,000/-  
 The fee includes boarding & lodging charges,  
 course documentation, mid-  
 session refreshments,  
 breakfasts, lunches, dinners, certificates and  
 cost for local hospitality.

**Total number of Seats: 15**

**On-spot registration is available only**  
 in condition of availability of seat with  
 late fees and prior information.

### Accommodation:

Accommodation will be provided by the  
 Institute.

### Mode of Payments

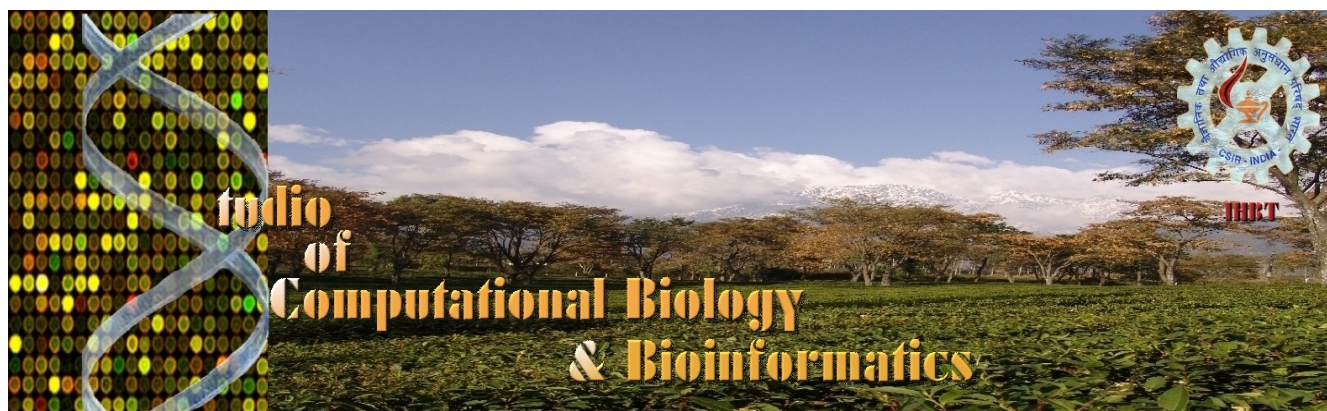
Demand Draft of due amount in favor of  
 "Director, IHBT, Palampur",  
 payable at Palampur.

Kindly send a scanned copy of the DD in email  
 to [ravish@ihbt.res.in](mailto:ravish@ihbt.res.in) and [ravish9@gmail.com](mailto:ravish9@gmail.com),  
 on or before May 21, 2010.

**Confirmation: Confirmed candidates will  
 be intimated by email.**

### Disclaimer

In the event of circumstances beyond  
 its control, the Management reserves  
 the right to alter the program, the  
 speakers, the date or the venue.



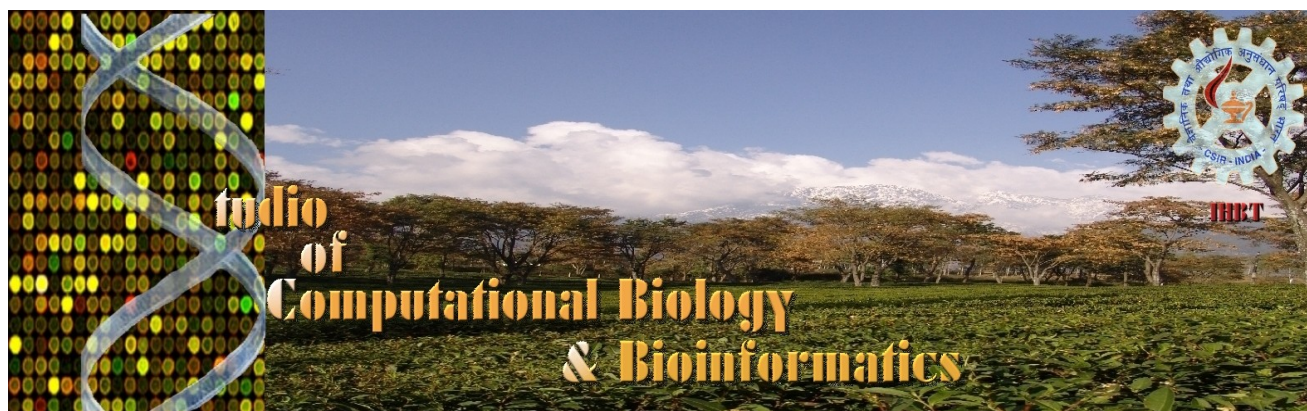
Two-Day Bioinformatics Workshop  
on  
**“The Bioinformatics of Next Generation Sequencing”**

being conducted by

The Studio of Computational Biology & Bioinformatics (Bioinformatics Unit)  
Biotechnology Division  
Institute of Himalayan Bioresources Technology  
CSIR, Palampur(Himachal Pradesh)



17 -18 June, 2010  
Venue: Institute of Himalayan Bioresource Technology(IHBT)  
Council of Scientific & Industrial Research (CSIR)  
Palampur, Himachal Pradesh (176061)



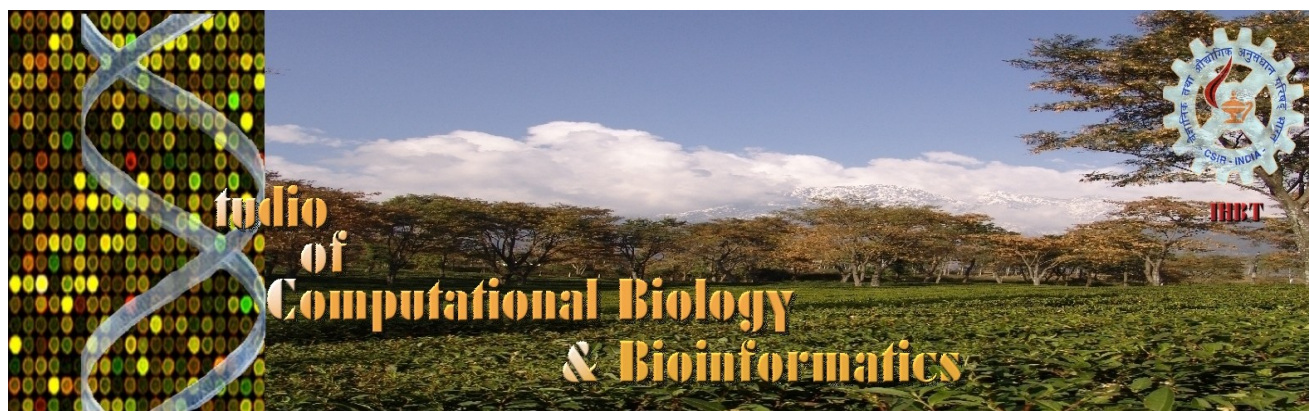
## PROGRAM DESCRIPTION

Around the beginning of 2000, the draft sequence of human genome was reported, a project, initiated in the mid of 1980's. The approach was shotgun sequencing, which can produce sequences with rate of 0.4 million base pairs/day and cost of \$0.50/Kb! Human genome varies from individual to individual, expression of genes vary from tissue to tissue and so the DNA-protein interaction and methylation pattern and above all we have so many species to sequence. Amid this all, one thing becomes very clear that just one individual genome information is not enough to elucidate the real life system. But if the technology remains so much bulky, time consuming, restricted, costly and unapproachable, the many medical and biological milestones to better the lives and earth may remain a distant dream. Next generation sequencing (NGS) is such an approach to realize such dream at affordable cost, which has changed the face of the science in a strong fashion, reflected well in the large amount of sequence information being reported everyday at whole genome and transcriptome level. This is directly benefitted the system approach of study, our capability to understand and detect SNPs, correct sequences, individual sequences, DNA-protein interaction, expression based studies and analysis and emergence of entirely new and challenging fields of Metagenomics and Epigenomics. Amid this all, the NGS has its own issues which need to be addressed. And most of these issues are related to bioinformatics. Also there is an urgent need to understand the capacity and strength of NGS, so that this technology is fully utilized for the benefit of people.

## Methodology

Through a carefully selected set of experts, having real hand in this field in our country, this workshop intends to discuss the first hand experience of the experts themselves at a single common platform. A well supplemented hands-on session will be conducted with the latest softwares and tools used in NGS studies. Machines of both the flavors, Linux as well as Windows, will be available for the hands-on training.





### WHO SHOULD ATTEND?

The participants of the course may be students, research scholars, faculty and industry personnel who work in the area of Bioinformatics, biotechnology, molecular biology, genomics, epigenomics, sequence analysis and sequencing, SNP , expression and gene regulation studies.

### How to Reach Palampur

- 1) **Buses:** Daily buses from ISBT, Kashmiri Gate, Delhi. Buses for Baijnath/Palampur.  
Daily Buses from Pathankot.
- 2) **Train:** Nearest railway station is Pathankot (Chakki Bank). From Pathankot it takes around 4-5 hours journey by bus, to reach Palampur.
- 3) **Air:** Delhi to Dharamshala (Gaggal airport), direct flight. From Gaggal, take bus or taxi to Palampur (~35 kms away).

**For any query/contact email at [ravish@ihbt.res.in](mailto:ravish@ihbt.res.in) or [ravish9@gmail.com](mailto:ravish9@gmail.com)**

Dr Ravi Shankar  
Course Director & Convener  
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Biotechnology Division, IHBT, CSIR, Palampur (HP), PIN 176061  
Tel: 01894- 233339(0) (extn: 384) Fax: 1894-230433

**Website: <http://scbb.ihbt.res.in>**

All forms, materials and associated information will be made available on world wide web through above given web link.

A Certificate of Attendance for Professional Development will be given to each participant who completes the Course.