

“Deep Bioinformatics Boot Camp - A Workshop” (August 28-30th, 2023)

HiChiCoB- A DBT BIC at CSIR-IHBT, Palampur (H.P.) – 176061

About the Workshop:

Deep and next generation sequencing techniques have revolutionized our access towards the genomic and molecular systems. This has also opened a Pandora-box arising from an entirely different and enormously voluminous sets of molecular data from different platforms requiring a fresh approach towards solving the molecular biology problems. And this is led by development of new algorithms and software to solve such problems. Deep-learning algorithms have emerged strongly to provide cutting-edge solutions. So the theme is Deep Bioinformatics.

The present workshop has identified some of those most important developments to discuss this season, and train the selected candidates to deal with them. This workshop will move with two pronged way. The morning session with detailed talks on topics like: Fundamentals and current status of NGS, Hi-C, Single Cell Genomics, GWAS, Metagenomics, ChIP-Seq, ATAC-Seq, CUT&RUN-Seq analysis, Graph Neural Nets, Machine Learning, and Deep-Learning. The post-lunch session will cover hands-on training on these above mentioned topics.

Lead Experts

Mitali Mukerji, IIT, Jodhpur
Functional genomics and NGS

Tulika Srivastava, IIT, Mandi
Metagenomics

Vandana Jaiswal, CSIR-IHBT, Palampur
GWAS

Mahima Bose, Shubha Tole's Lab, TIFR, Mumbai
Elucidating 3D Genome Dynamics

Sanjeev Galande, IISER, Pune
ChIP-Seq, ATAC-Seq and CUT&RUN-Seq

Debarka Sengupta, IIIT, Delhi
Single cell genomics & Deep Learning

Dinesh Singh, IIT, Mandi
Graph Neural Network

Rintu Kutum, Ashoka University, Sonapat
Machine and Deep Learning

Vishal Acharya, CSIR-IHBT, Palampur
Application of Graph Neural Network

Rituraj Purohit, CSIR-IHBT, Palampur
Machine Learning in Structural Bioinformatics

Ravi Shankar, CSIR-IHBT, Palampur
Deep Learning in Genomics

Registration Information

Registration Fees (Full Event): Rs. 7,000/-*

*The fee includes boarding & lodging, refreshment, meals, logistics and miscellaneous costs.

Only 20 seats are available for full event (first come first serve basis).

Registration Fees (Only for lectures): Rs. 1,500/-

Only 30 seats are available

Registration will be done on first come first serve and screening, based on which the selected candidates will be promptly intimated by email to pay the fees within 3 days. Failing to do so will cancel the registration.

Interested candidate can register by visiting the registration link

“Google form” given at the workshop website :

<https://scbb.ihbt.res.in/Workshop/#register>

Important Information

The list of selected candidates will be displayed on the **workshop website**: <https://scbb.ihbt.res.in/Workshop/> on **July 28th, 2023**. The transaction details must be emailed to scbb@ihbt.res.in with CC to scbbworkshop2023@gmail.com with the subject “**Workshop payment**”. **Last date for registration is July 28th, 2023**.

Account Details

Account holder name: Director, CSIR-IHBT, Palampur (H.P)

Account No.: 30268795419

IFSC code: SBIN0003632

Branch: SBI HPAU BRANCH, Palampur (H.P)

How to reach Palampur?

By road: Daily Volvo buses from ISBT, Kashmiri Gate, Delhi to CSIR-IHBT, Palampur and daily buses from Pathankot to CSIR-IHBT, Palampur.

Train: The nearest railway station is Pathankot Cantt. It takes around 3 hours by bus or taxi, to reach CSIR-IHBT, Palampur (~110 km away).

Air: New Delhi to Dharamshala (Gaggal airport), direct flight. From Gaggal, take a bus or taxi to CSIR-IHBT, Palampur (~35 km away).

Contact: Studio of Computational Biology and Bioinformatics (SCBB), The Himalayan Centre for High-throughput Computational Biology (HiChiCoB)-BIC, CSIR-IHBT, Palampur – 176061 (H.P)

Dr. Ravi Shankar

Convener & Coordinator

CSIR-IHBT, Palampur

Email: scbb@ihbt.res.in & scbbworkshop2023@gmail.com

Contact Person:

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