

Two days workshop on “High throughput sequencing data analysis – DNA-Seq and RNA-Seq applications”

Biomedical Informatics Centre, RMRIMS (ICMR), Patna in collaboration with ICMR Genomics Center is organizing a two days workshop (25th and 26th September 2018) on “High throughput sequencing data analysis – DNA-Seq and RNA-Seq applications”. The topics to be addressed during the workshop include, HTS data analysis, data retrieval and useful Linux commands, basics of R and bioconductor, Mapping and variant calling and gene expression analysis.

Eligibility criteria for applicants include MSc. Life science, M. Pharm, B. Pharm, MBBS, M.D, M. Tech, B. Tech and M.S. (Bioinformatics, Pharmacoinformatics). Interested applicants may send their application letter with a small write up to clearly mention the benefit of attending this workshop along with curriculum vitae. Complete bio-data via e-mail to training.rmri@gmail.com. The last dates for receipt of applications are 18th September 2018. A maximum of 20 candidates will be selected. The selected candidates will be intimated by email. The selected candidates should bring a proof of identity (photo ID) for the workshop. The workshop is being fully supported by Indian Council of Medical Research, New Delhi. There is no course fee. The selected candidates will, however, have to make their own arrangements for travel and accommodation. The candidates should reach the institute before 8.30AM. Desk registration is also available. For any query or information, feel free to call us on (9884266881, 9304657119) or contact by email.

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National workshop
High throughput sequencing data analysis– DNA-seq and RNA-seq applications
 25th -26thSeptember, 2018

Day 1 (25/09/2018, Tuesday)		
9:30 – 10:00 AM	Registration	
Inaugural session (10:00- 10:30 AM) Welcome Address:		
10:30 – 11:00 AM	High Tea	
Lecture		
11:00 - 11:45AM	HTS data analysis: an overview	Dr. DibyabhabaPradhan
Demonstration / Hands-on Sessions		
11:45 – 1:15 PM	Exploring in HTS raw data and file formats : Data retrieval & Useful Linux commands	Mr. Suyash Agrawal
1:15 – 2:00 PM	Lunch	
2:00 – 3:00 PM	Basics of R and Bioconductor	Dr. Amit Kumar
3:00 – 3:30PM	Tea Break	
3:30 – 4:00 PM	Quality Control and Trimming	Ms. Neetu Tyagi
4:00- 5:00 PM	Mapping and variant calling from prokaryote genome	Dr. Dibyabhaba Pradhan
Day 2 (26/09/2018, Wednesday)		
Demonstration / Hands-on Sessions		
9:30 – 11:00 AM	Calling variants from Eukaryote Genome, Variant filtering and annotations	Mr. Suyash Agarwal
11:00 – 11:30 AM	Tea	
11:30 – 1:15 PM	Genome assembly and annotation – Infectious pathogen as case study	Dr. Amit Kumar
1:00 – 2:00 PM	Lunch	
2:00 – 3:30 PM	Differential Gene expression analysis from raw RNA-seq data, gene ontology and pathway enrichment, network analysis for hub gene prediction.	Dr. Dibyabhaba Pradhan
3:30 – 4:30 PM	Exercise – Variant calling / RNA-Seq/ Genome assembly (Any one)	Ms. Neetu Tyagi
4:30 – 5:00 PM	Valedictory session Vote of Thanks	
High Tea		

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