

Training on accessing of online e-journal, gene sequence alignment and phylogenetic analysis

Three days training programme on accessing of online e-journal, gene sequence alignment and phylogenetic analysis concluded on 23rd March 2011. The training was conducted by Bioinformatics centre, Sikkim State Council of Science & Technology. The programme was attended by the Secretary, Science & Technology, Govt. of Sikkim, Shri. M. L. Arrawatia, Coordinator, *DBT's electronic Library Consortium (Delcon)*, Dr. D. D. Lall, officers and the research scholars of the Sikkim State Council of Science & Technology. The programme was inaugurated by Secretary, Science & Technology on 21st March 2011. Three volumes of compiled research papers on Bioresource of Sikkim compiled by Bioinformatics centre was also formally released by Secretary, Science & Technology and Coordinator, Delcon consortium.



In his inaugural address, he urged the research scholars to make full use of the online e-journal facility provided by Department of Biotechnology (DBT), Government of India through Delcon consortium and strive to publish at least two research papers in a year in high impact factor journals. He added that such online facilities of accessing and downloading these high impact factor journals in full text are available only in the top universities of the country and crores of rupees are paid annually to the publishers of these journals for each institute by DBT, Govt. of India. He thanked the DBT, Govt. of India for providing these facilities to Sikkim State Council of Science & Technology.

The inaugural session was also addressed by the coordinator of the Delcon, Dr. D. D. Lall who highlighted how the setting up of the Delcon consortium was conceptualized and later on materialized. He informed that around 900+ high impact factor journals are available free of cost for accessing and downloading full text to the selected institutes of the country including Sikkim State Council of Science & Technology and Sikkim University. The Delcon consortium has been set up by the DBT to promote the use of electronic databases and full text access to journals by the research and academic community in the country, he informed.

Presently, there are 33 member including 15 DBT institutions. Back volumes of journals are available from vol. 1 issue 1 or at least from 1995. The journals in the following fields are available for accessing and downloading full text research paper:

1. Bioinformatics
2. Biochemistry
3. Biology/ chemical biology
4. Immunology
5. Neuroscience
6. Plant genome
7. Plant biology
8. Microbiology
9. Physiology / Psychology
10. Physiotherapy
11. Genome / Gene / Genetics
12. Biotechnology,
13. Mathematics
14. Physics
15. Chemistry
16. Radiology
17. Medicines
18. Computational biology
19. Cell biology & cell sc.
20. Molecular biology
21. Molecular & cellular biology
22. Veterinary sciences
23. Computational neuroscience.
24. System neuroscience

Delcon consortium covers 917 e-journals. Their publisher, website and the number of journals coverage is as under:

Am. Assoc. for Advancement of Science	http://www.sciencemag.org	(3 Journal)
Am. Association for Cancer Research	http://www.aacr.org	(8 Journals)
American Chemical Society (ACS)	http://pubs.acs.org	(37 Journals)
Annual Reviews	http://www.annualreviews.org	(23 Journals)
Am. Soc. for Biochem. & Molecular Biology	http://www.jbc.org	(2 Journal)
Cold Spring Harbor Laboratory Press	http://www.cshl.edu	(4 Journals)
Informa Healthcare / Taylor and Francis	http://www.informaworld.com	(7 Journals)
Lippincott (LWW)/Wolter & Kluwer/ OVID	http://ovidsp.ovid.com	(11 Journals)
Marry ANN Liebert	http://www.liebertonline.com	(7 Journals)

Nature Publications	http://www.nature.com	(40 Journals)
Oxford University Press (OUP)	http://www.oxfordjournals.org	(18 Journals)
Springer India	http://www.springerlink.com	(237 Journals)
Society for General Microbiology	http://mic.sgmjournals.org	(3 Journals)
Society for Hematology	http://bloodjournals.hematologylibrary.org	(1 Journal)
Wiley-Blackwell	http://www3.interscience.wiley.com/cgi-bin/home	(86 Journals)
Elsevier Science (ScienceDirect)	http://www.sciencedirect.com	(415 Journals)
Am. Society for Microbiology (ASM)	http://www.asm.org	(11 Journals)
Am. Association of Immunology (AAI) Am. Association for Plant Biologist	http://www.aai.org http://www.aspb.org	(01 Journal) (02 Journals)
SCOPUS Database	http://www.scopus.com	(1 Database)

The hands on training on accessing of online e-journals and downloading the full text research papers were imparted to the research scholars of the Sikkim State Council of Science and Technology and other research institutes of Sikkim by Dr. D. D. Lall, Coordinator, Delcon consortium. For further queries please visit the consortium website: <http://delcon.gov.in>.

Bioinformatics centre, Sikkim State Council of Science & Technology invites the research scholars working in various fields in this region to visit the centre to avail these facilities of accessing high impact factor journals of the world at zero cost which otherwise are available only on subscription or payment mode or in the top universities of the country.



On third day of the training programme, the training on sequence alignment and the phylogenetic analysis was conducted. The training was imparted to the research scholars of the Sikkim State Council of Science and Technology. The resources persons were invited from the Regional Centre of Institute of Bioresource and Sustainable Development (RCIBSD), Tadong. Dr. Sunil Thorat, Sr. Scientist cum Officer on Special Duty, IBSD delivered lecture on gene sequence alignment and phylogenetic analysis and performed demo of the aligning gene sequence and construction of phylogenetic tree. The lecture and the demo session was followed by hands on session. The hands on training was imparted by Dr. Pradeep, scientist, IBSD who showed how to extract the gene or protein sequence from National Centre for Biotechnology Information (NCBI) or other gene bank and align them by using various bioinformatics tools and conduct molecular studies including evolutionary relationship among species.