



# SIKKIM HERALD

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Gangtok (Tuesday) April 18, 2017

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## Training on Bioinformatics in Genomics and Proteomics Researches

A three days training programme on "Bioinformatics in Genomics and Proteomics Researches" organized by Bioinformatics Sub-DIC, Sikkim State Council of Science & Technology, Department of Science & Technology, Government of India, New Delhi, was held from March 20 to March 22 at Bioinformatics Web Laboratory, Vigyan Bhawan, Deorai.

The training programme was inaugurated by Additional Director, Department of Science & Technology, Government of Sikkim, Dr. B. C. Basistha who is also the Coordinator of

Bioinformatics Sub-DIC. Dr. Basistha spoke about the importance of Bioinformatics in advance biological researches. During the session a compendium on journal research articles of Bioresources of Sikkim Himalaya, Volume 5, published by Sub-DIC was also released. Dr. Basistha, appealed all to take special benefit from this research compendium.

The technical session began with a power point presentation by Dr. B. C. Basistha. He delivered a lecture on the Genetic Diversity of *Frankia sp.* He informed about Genomic database submission in Gene Bank and its beneficial

features for researchers. Hands on session was conducted by Information Officer, Sub-DIC, Sikkim State Council of Science & Technology, Mr. Laydong Lepcha on Retrieval and analysis of Genomic and Proteomic Sequences, Multiple Sequence Alignment, Phylogenetic studies, transcription, translation and Protein prediction. He also held a specific lecture session on *In-silico* research of *Veillon* gene, an anti-decaying gene.

RA, State Biotech Hub, Sikkim State Council of Science & Technology, Dr. Sushen Pradhan also gave a power point presentation during the training.

Contd. from front page.

### 4 SC students...

submit their travel accounts. The President of All Sikkim Scheduled Caste Association (ASSCWA) Mr. Sekhar Sewa has offered that one of their executive members will also travel with these students and the parents to give support, if needed. The representative will be traveling at the cost of the ASSCWA.

Minister Mr. A.K. Ghatani also addressed the students and their parents and advised the students to be more dedicated in

children as the government would take full responsibility for their safety and welfare.

So far, 46 students under the SC category have been admitted within and outside the state under the Ambedkar Scholarship Scheme. The HCMSS and 08 students are admitted outside the state under the Ambedkar Scholarship Scheme.

On the occasion of the Ambedkar Jayanti, the HRDD had conducted district level essay competitions for the students of Classes IX to XII in which the best essay (one each from every district) was awarded a cash prize

against their names below:

Pawan Kumar, Class XII, Tashi Mungyal Senior Secondary School, Gangtok, East Sikkim. (Topic: Life-History of Dr. B.R. Ambedkar)

Anisha Subba, Class XII, Gyalshing Girls' Senior Secondary School, West Sikkim. (Topic: Importance of Constitution and its Importance in India)

Rabina Khatoon, Class XII, Mangan Senior Secondary School, North Sikkim. (Topic: Importance of Ayurveda and Yoga in Human Life)

Shiva Chettri, Class X,

Government of Sikkim  
Department of Information & Public Relations  
Soochna Bhawan  
5<sup>th</sup> Mile Tadong, Sikkim- 737102

Ref.No. 635/IPR/16-17 Date: 29/3/2017

### NOTICE FOR LEASE/RENT

The Information & Public Relations Department, Government of Sikkim would like to lease out/rent two floors of the office building situated at Jorethang road near Hotel Samdrupse, Namchi, South Sikkim.

The building is a four-storied structure out of which two floors are being utilized by DIC. The remaining two floors are vacant for which, any interested Financial Institution and any other Government or Semi-Government Organizations may send applications to the Department.

The details of the two floors for rent are as follows:

1. 21 nos. of medium sized rooms
2. 6 nos. of small sized kitchen
3. 8 bathrooms

Further, details on the agreement and lease/rent amount can be discussed once the applications are accepted and approved by the authority of the department.

The following officers can be contacted for any query:-

1. Joint Director (Admin) - Mobile No. 9434751150
2. Under Secretary - Mobile No. 9732837374
3. DIO (South) - Mobile No. 7551051895

Under Secretary  
IPR Department

O.NO. 472/IPR/PUB/Class/16-17, dt. 29/3/2017

Eklavya Model Residential School (EMRS) at  
Sadam Suntaley, (South District)  
Under Social Justice Empowerment & Welfare  
Department (Welfare Division) (Welfare Division)  
(Ministry of Tribal Affairs, GOI)  
**ADMISSION NOTICE**

Eklavya Model Residential School (EMRS) is going to establish at Sadam Suntaley in South district (100% Free). Applications are invited from the Tribal Students (Boys & girls both).

## Report

### “Training on Bioinformatics in Genomics and Proteomics Researches”

Dated: 22.03.2017

Three days training programme on “**Bioinformatics in Genomics and Proteomics Researches**” was conducted by Bioinformatics Centre, Sikkim State Council of Science & Technology, Department of Science & Technology and Climate Change, Government of Sikkim on 20<sup>th</sup> & 22<sup>nd</sup> March, 2017.



The training programme was formally inaugurated by Dr. B. C. Basistha, Additional Director, Department of Science & Technology, Government of Sikkim. Dr. Basistha who is also the coordinator of Bioinformatics centre welcomed all the participants and the staffs in the training programme.

The technical session began with the power point presentation by Dr. B. C. Basistha. He delivered lecture on the Genetic Diversity. He explained briefly about sequencing and Phylogenetic analysis of *Frankia* using software's like PHYLIP and MEGA 6. He also briefly explained about the DNA sequence submission in a Gene Bank. He described the technique of DNA finger printing, Polymerase Chain Reaction or PCR and RFLP in short. He added a short note on the arrangement A, T, G, and C in the gene in a sequence which is responsible for protein synthesis which subsequently decides the morphological make-up of an organism. It is also possible to construct the evolutionary (Phylogeny) tree by aligning these sequences among species, varieties or genus of an organism with the help of bioinformatics tool. The sequencing of gene produces large number of data which are stored in computers. These data can be used to study the evolutionary history, drug designing etc. In this way, it forms an interface between the computational and biological science that gave birth to a new field called “Bioinformatics”.

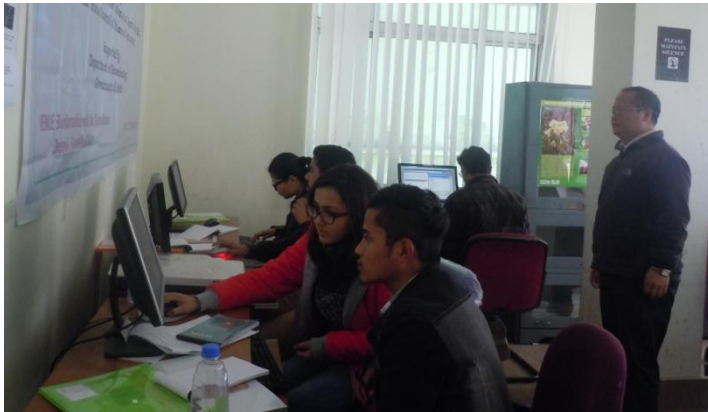


Fig: Hands on training



Fig: Releasing of Compilation on Bioresources [Book] of Sikkim, Vol.-IV

After inaugural Session HANDS ON TRAINING was conducted by Shri. Laydong Lepcha, Information Officer, Sub-DIC, and BTISnet on “Retrieving Genomic/Proteomic Sequence (DNA/RNA/PROTEIN)”

The second day of the training programme was initiated with a lecture by Dr. Sushen Pradhan, RA, State Biotech Hub on “Gentic diversity of *Zingiber Officinale* (Ginger) cultivars of Sikkim for production of disease resistant new ginger variety” and HANDS ON TRAINING was conducted by Shri Laydong Lepcha, Information Officer, Sub-DIC, BTISnet on “Multiple Sequence Alignment (MSA)[Protein Sequence or DNA sequence] and also on Phylogenetic Analysis(MEGA)”



Fig: 3<sup>rd</sup> day of training -during Lecture session

On the third day, the training programme has been concluded with the lecture of Shri Laydong Lepcha, Information Officer Sub-DIC, BTISnet on “**Genomics and Proteomics Researches**”, and finally with the last set of HANDS ON TRAINING which was conducted on “Genomic Sequence Transcription and Translation”.