

June 2016 - February 2017

# Biotech -Info Newsletter

“All of us do not have equal talent. But, all of us have an equal opportunity to develop our talents.” -Dr.A.P.J.Abdul Kalam

Department of Biotechnology & Bioinformatics

Bishop Heber College(Autonomous)



## We The Bio Revolutionists ...

The Department of Biotechnology and Bioinformatics has a strong vision to function with love ,social commitment and conscience to train and develop students through teaching , research and extension activities and enable them to serve the nation in socially relevent areas.This newsletter will also provide an ideal inspiration to develop new ideas through its resourceful content. I wish all success on this new venture by the Department , which would be useful in sharing and updating current hot topics in Biology and achievements of the staff and students of the Department .



-By Dr.V.VioletDhayabaran  
(Head of the Department)

## Highlights of the year

**DST -SERB  
Sponsored National  
Conference (CAMB-17)**

**Talentia -2017  
Intra-Departmental  
Meet**

**Begabung-2016  
An Interschool meet**

**BIOFEST -2017  
An Intercollegiate  
meet**

**Consultancy  
Awards and  
Patent by faculty  
members and students**

June 2016 - February 2017

Organizing Secretary

Dr.V.VioletDhayabaran

Conveners

Mrs.Anita Margret

Mrs. Sharly Elgal

**DST -SERB Sponsored National Conference On Computational Analysis Of Molecular Data In Synergy With Biological Application (CAMB-17)**

Grants received from DST-SERB a sum amount of Rs.50,000/-



Key Speakers

**1. Dr.N.Srinivasan**

(Prof. in Molecular  
Biophysics Unit,  
Indian Institute of Science,  
Bangalore).

**2. Dr.R.Sowdhamini**

(Dept.of Biophysics,  
Biochemistry & Bioinformatics,  
National Centre  
Biological Sciences,  
Bangalore.)

**3. Dr.R.RajeshKannan**

(Scientist, Centre for  
NanoScience and  
Nano technology,  
SathyaBama University,  
Chennai.)

About the conference

The conference brought together about 50 number of students, research scholars and faculty members from almost 10 different colleges from various part of the country. About 250 students of the department of Biotechnology and Bioinformatics, Bishop Heber College participated and gained knowledge regarding computational analysis of biological data. The conference began with the presidential address by Dr. Paul Dhayabaran, Principal, Bishop Heber College, Trichy-17. The proceedings of the conference was released by the dignitaries, Dr. Paul Dhayabaran, Dr. N.Srinivasan, Dr. Rajesh Kannan and Dr. R. Sowdhamini followed by the distribution of proceedings to the audience. Technical session I was highlighted with the lecture of Dr. N. Srinivasan entitled "Bridging the islands of protein families in sequence space using artificial sequences" followed by the oral presentations of the participants. About 27 papers was submitted for the proceedings of the conference, among them 17 original papers were scrutinized and presented orally during the conference. Dr. N. Srinivasan and Dr. R. Sowdhamini had chaired the session and critically reviewed the presentation along with their valuable suggestions.

Poster presentation took place during afternoon session and was judged by the resource person, Dr. R. Rajesh Kannan. About 31 posters were displayed in auditorium which covered most of the branches of computational biology. Technical session II was led by Dr. N. Sowdhamini entitled "Computational modelling, in silico point mutations and evolutionary trace analysis of human neuronal nAChR." The technical talk of R. Rajesh Kannan with the topic entitled "Small molecule based drug discovery and its validation using Zebrafish model" was the highlight of the valedictory function. Conclusively, CAMB-17 provided a valuable networking opportunity and set the stage for improving knowledge among students and research scholars about the computational analysis by highlighting the role of computational tools and its prospects in developing strategies to minimize human ailments. As a result, the participants realized the transition of molecular data as prolific drugs with aid of virtual tools. The participants also gave positive feedback regarding the conference and they highlighted that they got much exposure in the field of Computational Biology.

## Talentia -2017

An Intra-Departmental Meet Organized various competitions for our department students to exhibit their talents.

Felicitation and prize distribution by  
**Dr.Alagappa Moses**

Head,Department of Environmental Sciences,  
Bishop Heber College,Tiruchirappalli

# Helixassociation activities



## Biofest 2016

An Intercollegiate meet, which housed 300 participants from various colleges in and around Trichy and the overall championship was bagged by Holly Cross College,Trichy.

Inauguration and guest of honor

**Dr.R.Richard Jagatheesan**

Professor and Head  
Veterinary University Training and Research Institute ,  
Tiruchirappalli

Topic: Advance tools of molecular biology in Animal husbandry  
Felicitation and prize distribution

**Dr.Godwin Preamsingh**

Associate professor, Department of Social Sciences,  
Bishop Heber College,Tiruchirappalli.

## Begabung -2016

An Interschool meet to nurture talents among school children

Inauguration and guest of honor

**Dr.R.Thangavelu**

Principal Scientist

(Department of plant physiology)

Banana Research Institute, Tiruchirappalli

Felicitation and prize distribution:

**Dr.Ally Sornam**

Head,Department of Environmental Sciences,  
Bishop Heber College,Tiruchirappalli



## Christmas Cheers

CSI All Saints School,Woriyur, Tiruchirappalli

Extension service: Awareness in "Natural

Disaster and Management"

Department Extension Activities-  
Curricular & Non-Curricular activities  
(other than study trips / field work)

An awareness programme on "**Disaster Management**"  
and a meaningful Christmas celebration with  
the school children of All Saints Primary School,  
Woraiyur on 22nd December 2016.



Support / Financial support offered through Department for Special cause  
As a part of Department Association activity,  
we have donated a water purifier of worth(Rs. 8000/-) to benefit the students of  
All Saints Primary School,  
Woraiyur, Trichy-17 on 22nd December 2016

## Parent-Teacher Meet

Annual Parent Teacher Meet was conducted during 23rd September 2016, where the response of the parents was overwhelming. The views about the Department feedback was shared with the parents and the minutes was recorded



## Alumni Meet

Our Department Alumni Association encourages the enthusiastic involvement of the alumni in supporting the mission of the Department and University. Annual Meet for the Alumni was held on 6th August 2016. About twenty members actively participated and suggested to initiate an endowment in view of the Golden Jubilee celebrations



## Training Programmes

Training programmes are conducted for students to develop Aptitude skills, Job interview, personality development, career planning and development. A one day programme on "Development of soft skills" was organized by the Dept. of Biotechnology & Bioinformatics for outgoing Msc Biotechnology students on 7th March 2017. Dr. Victor Lazaraus, Associate Professor, Dept. of Management Studies, Bishop Heber College gave intensive training on Phonetics, Interpersonal relations & Interview skills by conducting Mock interview, Group Discussions



## Awards and patent by faculty members



Dr. V. Violet Dhayabaran received Professor C.N.R. Rao Best Scientist Award - 2016 for Chemistry by BOSE Science Society on 12th Jan, 2017.



Investigator Award - 2016 for Biotechnology awarded by Bose Science Society on 12th Jan, 20 Mrs. A. Anita Margret received Har Gobind Khorana Memorial Best Young 17.

## PATENT & AWARDS



### MoU Signed

MoU between the Department of Biotechnology and Bioinformatics and Bio Techno Solutions Training and Research Institute, Tiruchirappalli-620 020 Tamilnadu, India on 08.03.2017

Dr. R.Jasmine is holding two patents for novel compounds possessing anti diabetic and anti bacterial activity – ref no. 244666 for a period of 20 years (from 2007). She is Bestowed with **Bharat Shiksha Ratan Award** for Academic Excellence by Global Health Society, New Delhi on 10th Feb, 2014



## Industrial Visits



Annual Industrial visits are undertaken by the Department and the students of III M.Sc Integrated Bioinformatics & M.Sc. Biotechnology visited Indian Institute of Science, Education and Research, Thiruvananthapuram (IISER-TVM) on 27th and 28th February, 2017.

## Student Achievements

S. No	Name of the student	Title of the paper	Conference name	Organized by	Date	Award
1.	Sharon V and Arshiya, II-Bioinformatics	Poly cystic ovarian syndrome (PCOS)	International Congress on Education and Public Welfare	Sathyabama University, Chennai-19	09.02.17 To 11.02.17	<b>BEST POSTER AWARD (Cash Award Rs. 2000/-)</b>
2.	S. Ashok Kumar, A. Stanley Poulouse, R. Sooryanarayanan, P. Thirumoorthi, N. Sowendarya, C. Vaizhali I-PG Bioinformatics	<i>In Silico</i> screening for Novel inhibitors of DNA Polymerase III alpha subunit of Mycobacterium tuberculosis (MtbDnaE2, H37Rv) using natural compounds	National Conference on computational analysis of molecular data in synergy with biological applications <sup>7</sup> CAMB -2017	Bishop Heber College	03.02.17	<b>BEST POSTER AWARD</b>
3.	N. Meyyammai and C.Cynthia* I-PG Biotechnology	Study on teratogenic effects of ricin, <i>Annabhedhi chenduram</i> using zebrafish embryo as a model system	National Conference on computational analysis of molecular data in synergy with biological applications <sup>7</sup> CAMB -2017	Bishop Heber College	03.02.17	<b>III prize in POSTER</b>



### • Student Achievements in Sports



Students of Bioinformatics won the overall shield in the national level archery competition held at Namakkal, Tamilnadu

Student's name	Title of the Fellowship	Agency	Amount (Rs.)	Duration
Ms S. Caroline Green II MSc Biotechnology	M.Sc. project work	National Cell Centre Science, Pune	-	Four months
Ms. S. Laxmi Priya III MSc Integrated Bioinformatics	Summer Research Fellowship Programme	Science Academies	6000.00	Two months
Ms. M. Deepa And Ms. S. Caroline Green II MSc Biotechnology	<b>Shortlisted for</b> Korean Government Scholarship Program	Ministry of Human Resource Development, (MHRD), Delhi	-	Three years

