



VIVEKANANDA COLLEGE

(Residential & Autonomous – A Gurukula Institute of Life – Training)

College with Potential for Excellence

Re-accredited with “A” Grade (CGPA 3.59 out of 4.00) by NAAC

Affiliated to Madurai Kamaraj University, Managed by Sri Ramakrishna Tapovanam,
Tirupparaiturai, Trichy

Tiruvedakam West, Madurai District-625 234, Tamil Nadu

DBT STAR COLLEGE SCHEME

Department of Biotechnology, Government of India, New Delhi



Chairman & Principal

: Dr. T. Venkatesan, M. Com., B.Ed., M.Phil., PGDCA., Ph.D

Coordinator & Member Secretary : Dr. G. Ponraj, M.Sc., M.Phil., Ph.D

Three days Workshop Hands on training on “Genome analysis and protein Designing”

A REPORT ON THREE DAY HANDS – ON WORKSHOP ON GENOME ANALYSIS AND PROTEIN DESIGNING (GAPD)

Organized by

POST GRADUATE AND RESEARCH CENTRE IN ZOOLOGY
Vivekananda College, Tiruvedakam West – 625 234
Madurai District, Tamil Nadu
UNDER DBT- STAR COLLEGE SCHEME

Convener

Dr. M. Shunmugavelu
Head, Associate Professor of Zoology

Dr. G. Ponraj

Associate Professor of Zoology &
Coordinator, DBT-Star College Scheme

Workshop Organizers

Dr. M. Pavunraj, Assistant Professor of Zoology
Dr. S. Selvaraj, Assistant Professor of Zoology
Dr. S. Krishnamoorthy, Assistant Professor of Zoology

Executive Members

Prof. R. Muthupandi, Assistant Professor of Zoology
Dr. K. Ramesh Kumar, Assistant Professor of Zoology
Dr. T. Ramesh, Assistant Professor of Zoology
Dr. K. Kamatchi, Assistant Professor of Zoology

July – 2022

Date of event: 21-07-2022 to 23-07-2022 (Three Days)

Venue: AV Hall (Vivekananda College)

Time: 10.0 am to 04.00 pm

Participants: Third-Year & PG Student

From July 21 to 23, 2022, the Post Graduate and Research Centre in Zoology at Vivekananda College in Tiruvedakam West, Madurai, offered a three-day workshop on Genome Analysis and Protein Design (GAPD). The customary prayer song led to the start of the inaugural ceremony at precisely 10:00 am. The welcome address was given by Dr. M. Shunmugavelu, Head and Associate Professor of Zoology, who also introduced the resource persons. The event was chaired by Principal Dr. T. Venkatesan. He inspired the students and provided an overview of the programme in his presidential address. The event's felicitation speech was delivered by Dr. G. Ponraj, Associate Professor of Zoology and coordinator of the DBT-Star College Scheme. 40 third-year and post graduate students engaged actively in this intensive course.

Dr. K.A.M. Karthikeyan, Assistant Professor of Zoology at NMS S.V.N. College in Madurai, led the workshop session on the first day and discussed the topic of Genomics: A Birds-Eye View. The session started off with a brief overview of the genome's structure and genome-scale data collection. The success of GAPD depends on the analysis, dissemination, and modelling of these data. The students learned about potential uses for the software and its features in deciphering and resolving various biological issues. This session also included discussion of various software packages.

Prof. R. Suguna, Assistant Professor of Biotechnology at The Madura College in Madurai, presented the workshop session on the second day, in which the topic of Molecular Docking Tool for Drug Discovery Using an Insilico Approach was covered. The resource person highlighted innovative computational platforms, computer-assisted drug design, and the discovery of novel mechanism or structure-based drugs. A combined mechanistic tool modelling ligand-protein interactions in drug design, molecular docking utilising computer software, CADD (Computer Aided Drug Discovery) includes, and different forms of docking were all discussed by the resource person.

Dr. S. Sudhakar, Professor of Biotechnology from Manonmaniam Sundaranar University in Tirunelveli, led the third day of the workshop session. He focused attention to the fundamental details of basic genetics ideas, such as cell structure and their functions. Additionally, he explored the NCBI databases, including genome, assembly, taxonomy, genes and magic BLAST. Finally, he motivated students by sharing the achievements of illustrious researchers in the fields of genomes and proteomics as he wrapped off the session. Dr. K. Karthikeyan, our college's Vice Principal and Associate Professor of Commerce, presented the valedictory address at the ceremony. In his valedictory address, he emphasised the state of science research and education, and he also emphasised the possibility of financial options from funding agencies for Colleges and Universities. The certificates were then given to the participants by him. The attendees' feedback was obtained, and it gave each session a favourable rating. Dr. M. Pavunraj, Workshop Organiser and Assistant Professor of Zoology, graciously proposed a vote of gratitude at the end of the workshop.

M. S. Srinivasan

Head

PG & Research Dept. of Zoology
Vivekananda College
Tiruvadakam West-625 234
Madurai Dist.

G. Ponnay
Coordinator
DBT-Star College Scheme
Vivekananda College
Tiruvadakam West, Madurai (Dist.)-625 234

T. V. V.
Principal
VIVEKANANDA COLLEGE
Tiruvadakam West-625234
Madurai District



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TIRUVEDAKAM WEST, MADURAI DISTRICT – 625 234

PG & RESEARCH CENTRE IN ZOOLOGY

Organizes a

Three Days Workshop on

Genome Analysis and Protein Designing Under DBT Star College Scheme

Date: 21.07.2022 to 23.07.2022

Venue: AV Hall

Organising committee

Dr. M. Shunmugavelu, Convenor,
Dr. G. Ponraj, Coordinator,
DBT, Star College Scheme

Workshop organizers

Dr. M. Pavunraj,
Assistant Professor of Zoology
Dr. S. Selvaraj
Assistant Professor of Zoology
Dr. S. Krishnamoorthy,
Assistant Professor of Zoology

Members

Prof. R. Muthupandi,
Assistant Professor of Zoology
Dr. K. Ramesh Kumar,
Assistant Professor of Zoology
Dr. T. Ramesh,
Assistant Professor of Zoology
Dr. K. Kamatchi,
Assistant Professor of Zoology

Inauguration

Blessings

Swami Vedananda
Secretary
Swami Adhiyatmananda
Kulapathi

Welcome Address

Dr. M. Shunmugavelu
Head, Dept. of Zoology

Presidential Address

Dr. T. Venkatesan
Principal

Felicitation

Dr. G. Ponraj, Coordinator,
DBT, Star College Scheme
Dr. A. Sathes Babu
IQAC Coordinator

Vote of Thanks

Dr. S. Selvaraj

PROGRAMME SCHEDULE

Day 1: Technical Session-I & II



Dr. K.A.M. Karthikeyan
Assistant Professor of Zoology
NMS S.V.N College, Nagamalai,
Madurai

Topic: Genomics: A Birds-Eye View

Day 2: Technical Session-I & II



Prof. R. Suguna
Assistant Professor of
Biotechnology
The Madura College, Madurai

Topic: Molecular docking, tool for drug design an insilico approach

Day 3: Technical Session-I & II

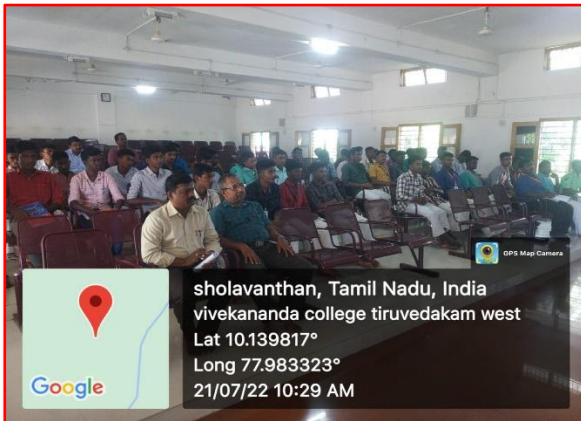


Dr. S. Sudhakar
Department of Biotechnology
Manonmaniam Sundaranar
University
Tirunelveli –

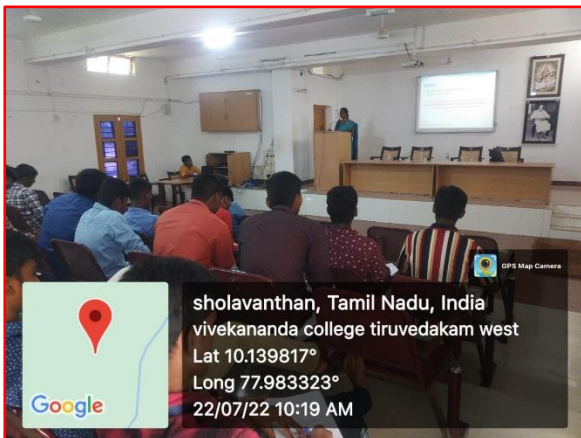
Topic: Genome and protein analysis

Valedictory Address

Dr. K. Karthikeyan
Vice Principal & Associate Professor of Commerce
Vivekananda College, Tiruvedakam West-Madurai



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