



**AICTE ATAL SPONSORED NATIONAL FDP ON
“Unraveling Molecular Mechanisms and Artificial Intelligence Approaches of Drug
Design in Cancer”
18th – 23rd December 2023**

FDP REPORT

Prepared by

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The Department of Biotechnology, SVCE is grateful to AICTE, Government of India to receive sponsorship of Rs. 3.5 Lakhs for conducting National FDP on “Unraveling Molecular Mechanisms and Artificial Intelligence Approaches of Drug Design in Cancer” from 18th – 23rd December 2023. 48 participants from around 25 different Institutions from all over India have applied for FDP and as a Coordinator, I have approved them. But, only 33 participants turned out attending the sessions from the beginning day of the FDP. Two international origin (Africa) participants also included in the total 33 participants of this FDP.

Inauguration function of FDP program started on the first day (18/12/23) by lighting Kuthuvillaku and releasing the FDP manual by invited Chief Guest, Prof.M. Sivanandham. He also enlightened the event by presenting a guest lecture on “Immunotherapeutic design by Computational Methodology”. After Lunch break, we had a second lecture and Hands-on session from Ms. Dhivya Shanmugarajan, Senior Application Scientist, Altem Technologies, Bengaluru on “AI based model in drug design in Cancer”. On second day (19/12/23), we had a guest lecture on forenoon session from Dr. Manikandan Narayanan, Professor, Department of Computer Science and Engineering, Indian Institute of Technology Madras, Chennai on “Computational approaches on Multi-tissue Genomics”. We had a guest lecture from Dr. Ezhilarasan, Professor, Saveetha Dental College Hospital on afternoon session of the second day in “Non-alcoholic fatty liver diseases: pathogenesis and current treatments”.

On third day (20/12/23), a guest lecture is arranged from Dr. I. Arnold Emerson, Professor & HOD, Department of Biotechnology, VIT Vellore on “Role of molecular modelling and data science in cancer research” on forenoon session and a guest lecture on “Construction of protein-protein interaction networks for mitochondrial ribosomal small subunit MRPS23” from Dr.Gopisetty Gopal, Professor, Cancer research institute, Chennai. On fourth day (21/12/23), a guest lecture is arranged from Dr. Suresh Kumar Rayala, Professor, Department of Biotechnology, Indian Institute of Technology Madras, Chennai on “P21 activated kinase-1 role in pancreatic cancer” on forenoon session and a guest lecture is arranged from Dr. Badrinathan, Dean (Educational Development), SVCE on “Implementation of NEP2020 policy”. We had gone for Industrial visit to IITM research park on 22/12/23 and had a guest lecture on “Cancer drug discovery” from



Dr. Pazhanimuthu Annamalai, Managing director, Aura Biotech, Chennai on 22/12/23. A guest lecture is arranged on “OMICS based strategies in precision medicine” from Dr. Pawan Kumar Gupta, Associate Professor, SVKMs Institute of Pharmacy Dhule on the last day (23/12/23). The FDP program was concluded through a Valedictory function by receiving the feedback from the participants by the Principal, SVCE on 23/12/23.

In addition to the lectures, Hands-on-experience was provided on software tools like Biovia Pipeline pilot server from Ms. Dhivya Shanmugarajan, Yasara from Prof. Arnold Emerson, Autodock, Pyrx, Discovery studio, Cytoscape and MATLAB from Prof. P.K.Praveen Kumar.

Day 1: Inauguration Function



Day 1: Guest Lecture from Prof. M. Sivanandham, SVCE



Day 1: Guest Lecture from Ms. Dhivya Shanmugarajan, Altem Technologies



Day 2: Guest Lecture from Prof. Manikandan Narayanan, IIT Madras





**Day 2: Guest Lecture from Dr. Ezhilarasan,
Saveetha Dental College Hospital**



**Day 3: Guest Lecture from Dr. I. Arnold
Emerson, VIT Vellore**



**Day 3: Guest Lecture from Dr. Gopisetty Gopal,
Cancer Research Institute**



**Day 3: Guest Lecture from Prof. P.K.Praveen
Kumar, SVCE**



**Day 4: Guest Lecture from Prof. Suresh Kumar
Rayala, IIT Madras**



**Day 4: Guest Lecture from Prof. Badrinathan,
SVCE**





**Day 5: Industrial visit to IITM Research Park,
Chennai**



**Day 5: Guest Lecture from Dr. Pazhanimuthu
Annamalai, Aura Biotech**



**Day 6: Guest Lecture from Dr. Pawan Kumar
Gupta, SVKM Institute of Pharmacy**



**Day 6: Valedictory Function from Prof. Ganesh
Vaidyanathan, SVCE**



P. H. Praveen

SIGNATURE OF FDP-COORDINATOR/BIO

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MARKS AND ATTENDANCE OF THE PARTICIPANTS IN FDP

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7	2	Mr.MWALIMU RAPHAEL JILANI	VEL TECH RANGARAJAN DR SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY	99.5	100
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9		Dr.POORNI K E	VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN (AUTONOMOUS)	100	100
10		Ms.GAYATHRI R	ARUNAI ENGINEERING COLLEGE	100	100
11		Ms.JANANI S G	THE AMERICAN COLLEGE	100	100
12	3	Dr.NAGALAKSHMI KAMARAJ	KARPGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY	97	100
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