

CURRICULAM VITAE

Name : Mrs.Nasreen Najeeb

Date of birth and age : 18.07.1965 (57 years)

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EDUCATIONAL QUALIFICATION:

SET: Qualified

Course	Institution	Branch	Year of passing	Percentage
+2	St.Anthony's Hr. Sec.School	Physics, Chemistry, Botany, Zoology	1983	81
B.sc	Queen Marys College	Zoology	1986	71
M.Sc	PGIBMS	Environmental Toxicology	1988	65
M. Phil	PGIBMS	Genetics	1989	61

Academic experience:

Served as Head of the Department of Genetics from Aug 1996 -March 2006 in Prof.Dhanapalan College for Women, Kelambakkam, Chennai.

Working as Asst.Professor in Biotechnology Dept. from June 2006 to till date in Mohammed Sathak College of Arts and Science, Sholinganallur.

Workshop participated:

- State level Animal cell culture workshop – organized by Dr.Ambedkar Govt. Arts college, Vyasarpadi in collaboration with Lifetech Research Centre, Chennai held on 15th & 16 February, 2017.
- State level workshop on Autism organized by Bharathi Women's College, Chennai held on 11th November, 2017.
- 10th National Symposium on Modern Biological Sciences (SyMBioS'17) on 20th and 21st, February 2017, held at Department of Biosciences and Research, SNMV College of Arts and Science, Coimbatore – 641050.
- One day National symposium on Biodiversity Perspectives at Hajee Karutha Rowther Howdia college, Theni Held on 20th September 2018.
- One day Workshop on “Mushroom Cultivation and Biofertilizer production.”
- Workshop on DNA Barcode organised by CIIC& Exonn BioSciences 18 – 20 Feb 2021.
- Workshop on “Emergence and resurgence of Covid -19 from Biological Perspectives, held on 19 March 2021.
- National Conference on Aquatic Biotechnology 2022, Alpha arts and Science College, 12th April 2022.
- Presented paper “Antimicrobial activity of epidermal fish mucus of Snake head fish., held at Alpha Arts and Science College, 12th April 2022

INTERNATIONAL WORKSHOPS AND CONFERENCES

- Participated and presented paper “ Biochemical and Demographic Appraisal of Thalassemia syndromes in hospital based population at Bangkok, JULY 15-16 ‘ 2019
- Workshop on” ARTIFICIAL intelligence in Bioinformatics and Drug Discovery by Wisecorner Labs. Chennai.
- Participated and presented paper on “Synergistic anticancer effect of Shemamurtha – An indigenous herbal combinant against 7,12 dimethyl benz a anthracene induced mammary carcinoma bearing rats on February 2020

Research Publication:

- Studies on textile effluent affected some vegetables crops and their biochemical parameters. Pollution Research (2020).
- Enzyme analysis and histological studies of earthworm and the treatment with different organic waste. Ecology, Environment and Conservation, (2022).
- Genotoxic effect of *Eclipta alba* and *Euphorbia hirta* on *Allium cepa* meristamatic tissue. Plant cell Biotechnology and Molecular Cell Biology 546-550 (2021).

- Anti mutagenic potential of *Murraya koenigii* on chromosomal aberration induced by sodium azide on *Allium cepa* root tip cell. Bulletin on Environment and Pharmacology and Life sciences , 1038-1039 (2022).
- Anti proliferative effect of Ethanolic Medicinal Fungus extract of *Agaricus bisporus* on HEP2 Cancer cell lines, Journal of Drug delivery and therapeutics 382-385.2019.
- Genotoxic effects of *Azadirachta indica* and *Cynodon dactylon* on *Allium cepa* root tip cells, International Journal of Scientific Research

Academic activities:

- Board of Chairperson in UG Biotechnology Board in University of Madras since 2008
- Acted as a Chairperson in the oral presentation session held in the 10th National Symposium on Modern Biological Sciences (SyMBioS'17) on 20th and 21st, February 2017, held at Department of Biosciences and Research, SNMV College of Arts and Science, Coimbatore – 641050.
- As Resource person for a national conference on Biotechnological advances in Biomedical, Environmental and Agricultural Technology at Hindustan college of Arts and Science held on 29th august 2018.
- As a Resource person for annual science exhibition held at St. Bede's Anglo Indian Higher secondary school on 18th august 2018.
- Served as an External member for academic audit meeting for the department of Biotechnology on in DG Vaishnav College on 13th February 2019.
- As Review research report panel member in TANSCH, on 23 December 22
- As a Board member for Biotechnology Syllabus Preparation in TANSCH in July 22

Awards and Prizes:

- Obtained the best project prize from Indian Coastal Congress for the project entitled “Genetic Screening among the fishermen community of Kovalam Village in the year 2004.
- Obtained the best presentation in the 5th International Conference on Bioscience and Biotechnology 2020 held at Kuala Lumpur, Malaysia on 27th – 28th February 2020.

BEST PRACTICES OF BIOTECHNOLOGY DEPARTMENT

- The Department of Biotechnology conducted Two Day Workshop cum training on the importance of Mangrooves , and Rehabilitation of coastline for the Fishermen of Kovalam, Muttukadu and Mahapalipuram shore in collaboration with the Center for **Environment Information Service, University of Madras** and **Lions Club of golden park**. Nearly 500 Mangrove saplings were planted in the backwaters region on Feb 4-6 2019, and is being continuously monitored by Biotechnology Dept and local Fishermen.
- Mangroove forests are important to protect the coastal Ecosystem by reducing the tsunami effect, prevents soil erosion , creates a conducive atmosphere for the growth of flora and fauna, absorbs CO₂ and releases O₂ to the atmosphere and is a home for Migratory birds. In addition to that it has enormous medicinal value and various parts of the plant are used in small scale industries.

**MOHAMED SATHAK COLLEGE OF ARTS AND SCIENCE
SHOLINGANALLUR, CHENNAI - 600119
DEPARTMENT OF BIOTECHNOLOGY
MODEL EXAMINATIONS, NOVEMBER - 2021**

Year & Class : II BSc BT

Subject : Genetic Engineering

Duration : 3 Hrs

Date & Session:

Sub.Code :

Max.Marks :75 Marks

Part-A (10x2=20)

Answer any TEN questions.

1. Gene cloning
2. Ligation
3. Transformation
4. Molecular probes
5. Cloning vectors
6. Restriction Enzymes
7. Di deoxy nucleotide.
8. Genomic Library
9. Ti Plasmid
10. Bt cotton
11. Transgenic Animal
- 12 .DNA finger printing

Part-B (5X5=25)

Answer any FIVE questions

13. Write short notes on construction of gene libraries?
14. Brief out the nucleic acid manipulating enzymes?
15. Describe the various tools involved in genetic engineering techniques?
16. Write short notes on DNA fingerprinting?
17. Explain in detail the nucleic acid hybridization techniques?

- 18.Explain in detail of the techniques in rDNA technology and its applications?
19. What are the different expression systems .
- 20.What is Agrobacterium mediated gene transfer

Part –C (1X10=30)
Answer any three question

20. Describe in detail about Polymerase Chain Reaction (PCR)?
21. Elaborate about the DNA sequencing methods?
- 22.What is a CDNA library, How it is constructed.
- 23.What is Protein Engineering.?
- 24What are the applications of Genetic Engineering to animals.?