

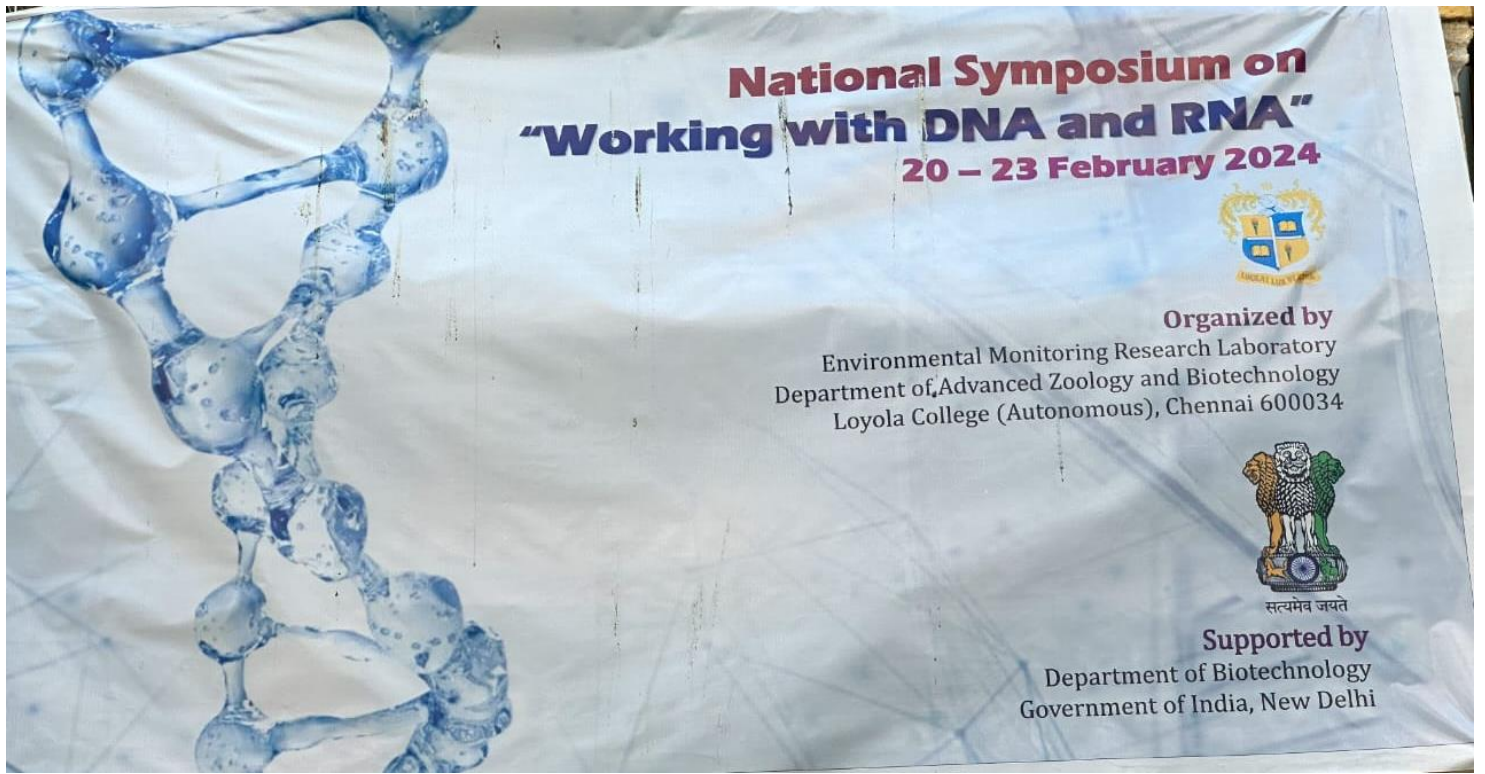
National Symposium on “Working with DNA and RNA”

20th to 23rd February 2024 (4 days)

Organized by

Environmental Monitoring Research Laboratory
PG and Research Department of Advanced Zoology and Biotechnology,
Loyola College, Chennai 600 034

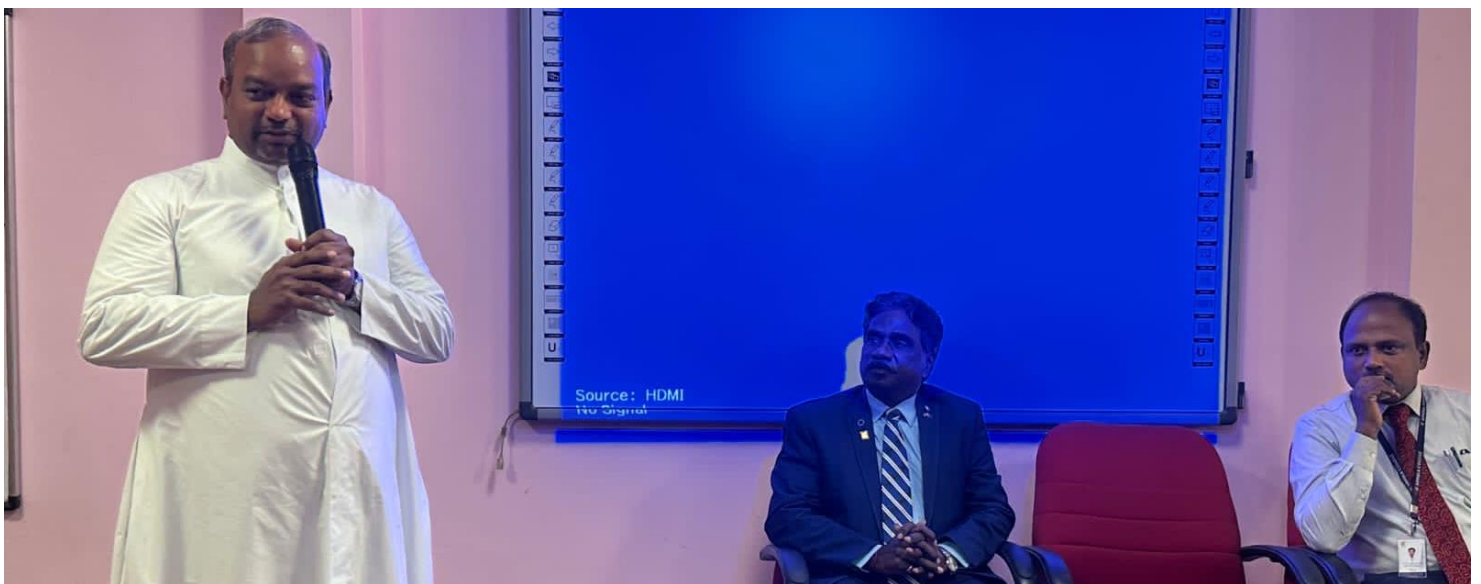
SYMPOSIUM REPORT



Welcome Address by Dr. Mary Dorathy Anitha Sebastian, Co-convener



Dynamics of the Symposium by Dr. M. C. John Milton



Felicitations by Rev. Dr. A. Louis Arockiaraj SJ, Principal



Honoring the Guests



Release of Symposium proceedings



Inaugural Address by Dr. M. Balasubramanyam, ICMR Emeritus Scientist



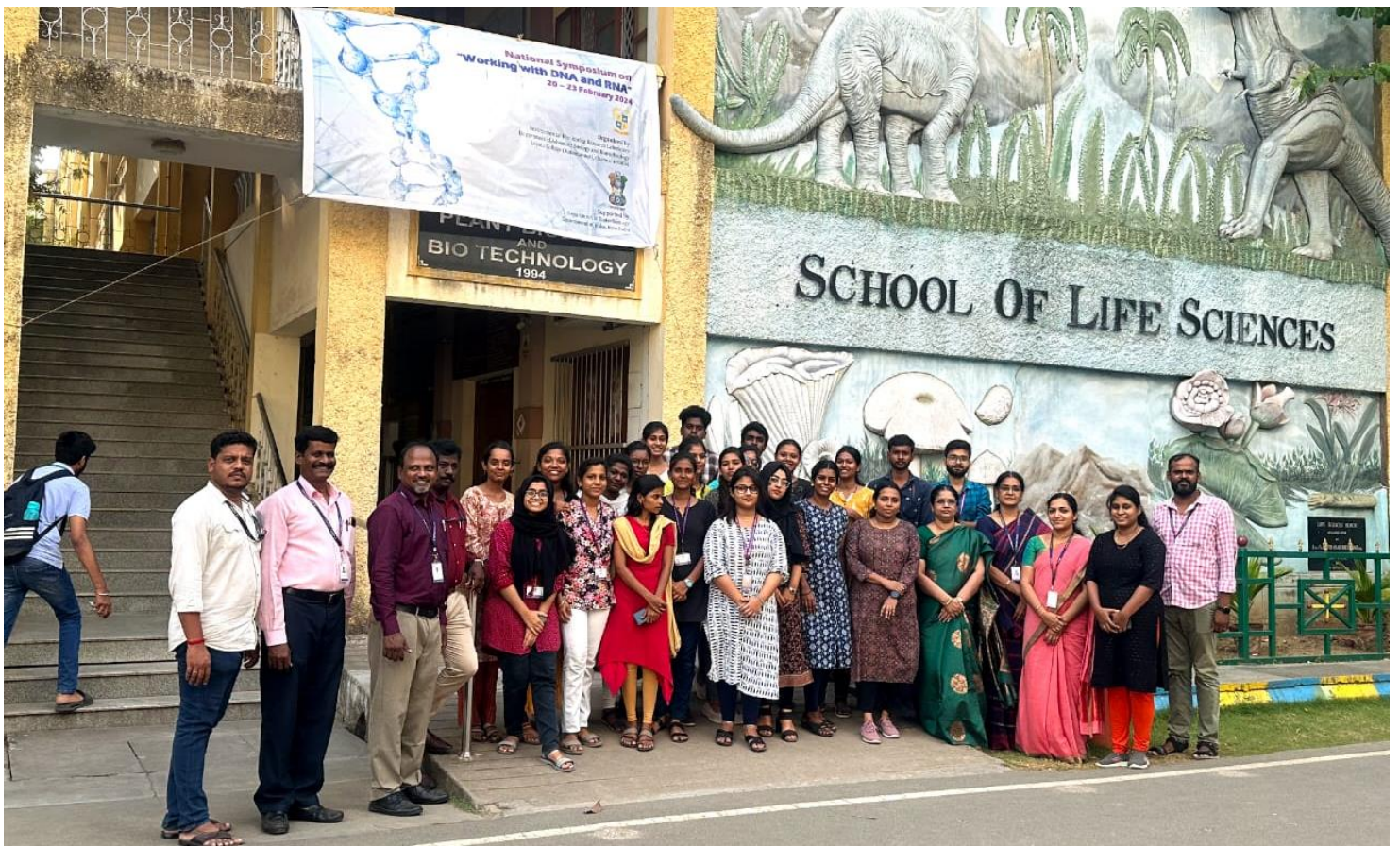
Group activity and projects







Valedictory Address and Distribution of certificates by Dr. Kavitha Sankaranarayanan, Coordinator, AU-KBC Research Centre, MIT Campus of Anna University, Chennai



Section of the participants



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SCHEDULE OF EVENTS

Date	Session	Theme	Time	Duration
Day 1 Monday 20.02.2024		Registration	08.00 - 08.30am	30 min
		Inauguration (Venue : Zoology Smart Room JF 02)	08.30 - 09.30am	60 min
	1.	Biotechnological tools for animal conservation Dr. Gopi Krishna Research Scholar, Centre for Cellular & Molecular Biology, Habsiguda, Uppal Road, Hyderabad - 500 007.	09.30 - 10.15am	45 min
	2.	Cancer genomics Dr. Ananda Mukherjee Ramalingaswami Faculty Fellow Rajiv Gandhi Centre for Biotechnology Thiruvananthapuram 695 014, Kerala, India.	10.15 - 11.00am	45 min
		Coffee Break	11.00 - 11.30am	30 min
	3.	DNA Extraction methods Dr. M. Krishnaraj Director, Apex Biotechnology Training and Research Institute, TS. 89, Thiru Vi Ka Industrial Estate, Ekkaduthangal, Guindy Chennai 600 032, Tamil Nadu.	11.30 - 12.15pm	45 min
	4.	Virology Dr. V. Stalin Raj Associate Professor, Nodal Officer (COVID19) School of Biology, IISER-Thiruvananthapuram Maruthamala PO, Vithura Thiruvananthapuram-695 551, Kerala, India.	12.15 - 01.00pm	45 min
		Lunch Break	01.00 - 02.00 pm	60 min
	5.	Demonstration, training and group projects: (DNA from plant and animal tissues, Yeast and Fungal Genomic DNA, Plasmid and bacterial Genomic DNA, Chloroplast and mitochondrial DNA) Research Team, AU-KBC Research Centre, MIT Campus of Anna University, Chennai 600 061	02.00 - 04.30pm	150 min
		Tea	04.30pm	

Day 2 Tuesday 21.02.2024	6. Recombinant DNA Technology Dr. K.N. Rajnish Associate Professor Dept. of Genetic Engineering SRM Institute of Science and Technology Kattankulathur - 603 203 Chengalpattu District, Tamil Nadu.	09.00 - 10.00 am	60 min	
	7. Functional genomics Dr. Tony Jose CEO, Clevergene Biocorp Pvt. Ltd. No. 617, 5th Main, Banaswadi Bangalore - 560043, Karnataka, India.	10.00 - 11.00am	60 min	
	Coffee Break	11.00 - 11.30am	30 min	
	8. Plant genome editing and Plant metabolic engineering Dr. M. Arun Assistant Professor, Department of Biotechnology, Bharathiyar University, Coimbatore 641046.	11.30 - 12.15pm	45 min	
	9. Mitochondrial genetic disorders Dr. P. Govindaraj Head, Laboratory of Human Molecular Genetics, Centre for DNA Fingerprinting and Diagnostics (CDFD), Inner Ring Road, Uppal, Hyderabad - 500039, Telengana.	12.15 - 01.00pm	45 min	
	Lunch Break	01.00 - 02.00 pm	60 min	
	10. Demonstration, training and group projects: (Phenol Chloroform Extraction of DNA, Ethanol precipitation of DNA, Restriction Enzyme Digestion of DNA and RNA from Bacterial Cells and Plant Tissues). Research Team, AU-KBC Research Centre, MIT Campus of Anna University, Chennai 600 061	02.00 - 04.30pm	150 min	
	Tea	04.30pm		
	Day 3 Wednesday 22.02.2024	11. Artificial Intelligence and Biotechnology Dr. Maziya Ibrahim Post-Doctoral Fellow, Robert Bosch Center for Data Science and Artificial Intelligence, IIT, Madras.	09.00 - 10.00 am	60 min
		12. Molecular pathogenesis of Diabetes Dr. M. Balasubramanyam ICMR Emeritus Scientist, Professor & Advisor Madras Diabetes Research Foundation (MDRF) 4, Conran Smith Road, Gopalapuram, Chennai - 600086.	10.00 - 11.00am	60 min
Coffee Break		11.00 - 11.30am	30 min	

	13.	Molecular genetics and DNA barcoding for species authentication Dr. D. Rex Arunraj Associate Professor Department of Biotechnology, Institute of Science and Technology, SRM Nagar, Kattankulathur 603203.	11.30 - 12.15pm	45 min
	14.	Genetic basis of protective immunity Dr. Luke Elizabeth Hanna Scientist 'F', ICMR National Institute for Research in Tuberculosis (NIRT), Chennai.	12.15 - 01.00pm	45 min
		Lunch Break	01.00 - 02.00 pm	60 min
	15.	Demonstration, training and group projects: (Hot phenol and acid phenol Extraction of RNA from plant tissues, Messenger RNA isolation, 16s rRNA sequencing, Agarose Gel Electrophoresis and SDS PAGE). Research Team, AU-KBC Research Centre, MIT Campus of Anna University, Chennai 600 061.	02.00 - 04.30pm	150 min
		Tea	04.30pm	
	Poster presentation by participants (Venue : Jubilee Building Quadrangle from 09.00am - 05.30pm)			
Day 4 Thursday 23.02.2024	16.	Immunology and vaccinology Dr. Kaustav Nayak Senior Scientist International Centre for Genetic Engineering and Biotechnology- Emory Vaccine Centre, New Delhi.	09.00 - 10.00am	60 min
	17.	Epigenetics and DNA amplification Dr. Felix Paul Joe CEO, Genex Biotech India Private Limited Chennai.	10.00 - 11.00am	60 min
		Coffee Break	11.00 - 11.30am	30 min
	18.	Demonstration, training and group projects: Southern, Northern, Western Blotting, ELIZA, PCR and RAPD - PCR Research Team, AU-KBC Research Centre, MIT Campus of Anna University, Chennai 600 061	11.30 - 01.00pm	90 min
		Lunch Break	01.00 - 02.00 pm	60 min
	19.	Computational Genomics and Drug Target Mining Dr. V. Umashankar Scientist E, ICMR National Institute for Research in Tuberculosis (NIRT), Chennai.	02.00 - 02.45pm	45 min

	20.	Drug Discovery Molecular biology, Drug Discovery, Biosafety Dr. Kavitha Sankaranarayanan Coordinator - Bio Sciences Division, Group Leader - Ion Channel Biology Laboratory AU-KBC Research Centre, MIT Campus of Anna University, Chennai 600 061.	02.45 - 03.30pm	45 min
	21.	Demonstration, training and group projects: (Bioinformatics Tools and Cheminformatics) Research Team, AU-KBC Research Centre, MIT Campus of Anna University, Chennai 600 061	03.30 - 05.00pm	90 min
		Valediction, feedback, best poster awards and presentation of certificates	05.00 - 05.30pm	30 min
		Tea	05.30pm	