

PROGRAMS ORGANISED

- The Department of Biochemistry & Microbiology jointly organized a one-day National Seminar, on the topic “The Frontiers of Life Science’- Biomic’17” on 13.09.2017. The seminar had scientific sessions by eminent speakers from various organizations and academic institutions. “Food Enzymes and their Industrial Importance”, “Clinico epidemiological aspects of Mycobacterial Disease”, “Antimicrobial activity of peptides isolated from selected Indian Ascidians”, “Characterization of Biomaterial using electron Microscopy”, “Viral Hepatitis in India” were the topics discussed by Dr.G.Venkateswaran, Chief Scientist & Head, Department of Food Microbiology & Fermentation Technology, CFTRI, Mysore. Dr. Joy Sarojini Michael, Professor, Department of Microbiology, Christian Medical College, Vellore, Dr. R. Saravanan, Assistant Professor in Marine Pharmacology, Faculty of Allied Health Sciences, Chettinadu Academy of Research & Education, Kelambakkam, Kanchipuram, Dr. Vijayashankar Asokan, Postdoctoral Researcher, Center of Electron Microscopy, Zhejiang University, China, Dr. C.E Eapen, Medical Superintendent, Christian Medical College, Vellore respectively. 102 participants from various Colleges and University participated in the seminar.
- The Department of Biochemistry in-association with Spoken Tutorial, IIT Bombay (MHRD, Govt of India) organized seven days Faculty Development Programme (FDP) from 25.05.2020 to 31.05.2020 on the topic “Cell Designer”. 80 faculties from various colleges got benefited from the Faculty Development Programme.
- An International Webinar on the topic “Connecting the dots between Biochemistry – Bioinformatics – Genomics for a road towards Precision Medicine” was organised on 28.05.2020. Resource Persons was Dr. S. Margaret Sunitha, Researcher, MGH / Harvard Medical School & Associated researcher, Broad Institute, Boston was the chief guest. 100 participants from various colleges participated in the webinar.
- The International Webinar on “Job Options for Life Science Students – Their Role in research Field” was organized by the Department of Biochemistry through a virtual meet on 31.07.2020. The resource person was Dr. Sathiya Sekar, Post-Doctoral Fellow, Department of Pharmacology, College of Medicine, University of Saskatchewan, Canada. 400 participants from various countries benefited from this webinar.
- A National Webinar on “Gene-Diet Interaction and Personalized Nutrition in Obesity” was organized on 02.09.2020. Dr. Vimal Karani, Associate Professor in Nutrigenetics and Nutrigenomics, Hugh Sinclair Unit of Human Nutrition, University of Reading UK and Adjunct Professor in Nutrigenetics (India) was the resource person. 800 participants from all over India and 10 different countries participated in the webinar.

- An International Webinar on “Advances in Life Science” was organized on 20.03.2021. The resource persons Dr Ravi Shankar Singh, Postdoctoral Research Fellow, Department of Biochemistry, Immunology and Microbiology (BMI), Cancer Cluster, University of Saskatchewan, Canada. Dr. Girish Ramesh, Research Scientist, Department of Biophysics, Faculty of Medicine, University des Sarlandes, Germany, animated on the topics “Role of DEAD Box helicase in innate immunity” and “Ion Channels and Calcium Homeostasis” respectively. 135 participants from various countries benefited from this webinar.

- An International Webinar was organized on the topic “Mitochondria in Heart Diseases” on 09.10.2021. The resource person was Dr. Joel James, PDF., American Heart Association, University of Arizona, USA. 135 participants from various colleges benefited from this webinar.

- An Awareness Programme on “Cervical cancer and its prevention along with the benefit of HPV vaccine” was organized by the Department of Biochemistry, Microbiology and Zoology in-collaboration with Christian Medical College (CMC), Vellore on 31.01.2023. Dr. Anitha Thomas, Head Department of Gynaecological Oncology, Dr. Banu, Medical Research Assistant, Dr. Sahana Punneshetty, Assistant Professor, Department of Gynaecological Oncology, CMCH, Vellore animated the students. 300 students were benefited from the programme.

- An International Webinar was organized on the topic “Development of Antibody-Based Theranostic Radiopharmaceuticals for Triple Negative Breast Cancer” on 17.08.2023. The resource person was Dr. Raja Solomon, Scientist, Vancouver adMare Innovation Centre, Vancouver, Canada. 150 students from various colleges benefited from this webinar.

- International webinar and lecture on the topic " "Development of Antibody-Based Theranostic Radiopharmaceuticals for Triple Negative Breast Cance" on 17.08.2023 Around 150 students participated. the resource person is Dr. Raja Solomon, Scientist, Vancouver adMare Innovation Centre, Vancouver, Canada.

- On 12.09.2023 PG Department of Biochemistry signed the memorandum of understanding with Society of Chemical and Synthetic Biology (SCSB), SpotdotBioinnovations Pvt Ltd, Kyntox Biotech India Pvt Ltd, Bioberrys Health care & Research Centre and Bionyme Laboratories pvt Ltd. College secretary Dr. Sr. Mary Josephine Rani exchanged the MoU with the company persons and delivered the key address about research and its importance in

the science field. Our department launched its innovation incubation Start-up product “Amarantha” – herbal bath powder during the program and the sample sachets were distributed to the dignitaries.

- PG Department of Biochemistry conducted MoU activity with Bionyme Laboratories Pvt. Ltd, Chennai on 29.11.2023 at 10.00am through virtual mode. Dr. B. Leeba, Director, Bionyme Laboratories Pvt. Ltd, Chennai addressed the students by a lecture on “Entrepreneurial opportunities in Biotechnology”. She animated about plant tissue culture techniques and its scope. She also explained projects taken by her company and her journey as an entrepreneur. The lecture and her motivation to become an entrepreneur was well received by the students. After the online lecture, as a part of association activity students participated in the model making competition on the topic “Biochemical techniques” and displayed their models in Biochemistry lab at 1.00pm. Dr. A. Nithya, Assistant Professor in Microbiology, Auxilium College (Autonomous), judged the competition and selected the best model.

- Department of Biochemistry organized a national level online workshop from 20.12.2023 to 05.01.2024 on the topic "Nanoparticles and its Characterization using UV visible spectroscopy, FTIR and XRD. Dr. Vishnu Kirthi Arivarasan, Assistant Professor from LPU, Punjab was the resource person. Department of Biochemistry organized a online workshop from 20.12.2023 to 05.01.2024 on the topic "Microbial Genomics and its industrial importance" Dr. Karthik, Director, SCSB was the resource person. UG and PG students chose their topic of interest and participated in the workshop.

- PG department of Biochemistry in collaboration with St. Joseph’s College (Autonomous), Trichy organized one day hands on workshop on Histopathological techniques on 27.02.2024. Dr. Lavanya R, MD Pathology, Consultant Pathologist, Doctors Diagnostic Centre and ABC Hospital gave a detailed lecture on Histopathological techniques and its role

in diagnosis and treatment. Staff of Biochemistry department, St. Joseph's college trained the students for hands-on experience batch wise in a well- organized manner. II PG students of our department attended the workshop and learned the techniques. Certificate of participation were issued to the students during the valedictory function.

➤ **ASSOCIATION ACTIVITIES**

S.No.	Date	Year	Activities	Resource Person/ Judges	Beneficiaries	No. & Nature of students
1	24.07.2023	2023 - 2024	Association inauguration function and guest lecture on the topic "Cell to cell communication in bacteria". Posters by the students on the topic "Scope of Biochemistry".	Dr. W. Jabez Osborne, Associate Professor, School of Biosciences and Technology, VIT, Vellore	Students	UG (90) and PG (23) students
2	17.08.2023	2023 - 2024	International webinar and lecture on the topic "Development of Antibody-Based Theranostic Radiopharmaceuticals for Triple Negative Breast	Dr. Raja Solomon, Scientist, Vancouver adMare Innovation Centre, Vancouver, Canada.	Students & Research scholars	150 participants

			Cancer".			
3	12.09.2023	2023 - 2024	MEMORANDUM OF UNDERSTANDING PG Department of Biochemistry signed the memorandum of understanding with Society of Chemical and Synthetic Biology (SCSB), SpotdotBioinnovations Pvt Ltd, Kyntox Biotech India Pvt Ltd, Bioberrys Health care & Research Centre and Bionyme Laboratories pvt Ltd.	College secretary Dr. Sr. Mary Josephine Rani exchanged the MoU with the company persons	UG (90) and PG (23) students	
4	29.11.2023	2023 - 2024	Guest lecture Entrepreneurial opportunities in Biotechnology". MODEL MAKING	Dr. B. Leeba, Director, Bionyme Laboratories Pvt. Ltd, Chennai addressed the students by a lecture	135 students were benefited through this webinar.	

			students participated in the model making competition on the topic “Biochemical techniques” and displayed their models in Biochemistry lab		
5	15.12.2023	2023 - 2024	TREASURE HUNT Apparatus and instruments used in Biochemistry laboratory and practical related items/images were hidden in the college playground	All the groups were allowed to find the hidden items and asked to report to the Department staff	All UG Students of Biochemistry (90)
6	20.12.2023 to 05.01.2024	2023 - 2024	NATIONAL LEVEL ONLINE WORKSHOP on the topic "Nanoparticles and its Characterization using UV visible spectroscopy, FTIR and XRD "Microbial	Dr. Vishnu Kirthi Arivarasan, Assistant Professor from LPU, Punjab was the resource person Dr. Karthik, Director, SCSB was the resource person	UG and PG students chose their topic of interest and participated in the workshop.(120)

			Genomics and its industrial importance"		
7	26.01.2024	2023 - 2024	QUIZ COMPETITION on the topic of life science	Biochemistry staff	UG and PG students(113)
8	30.01.2024	2023 - 2024	PENCIL SKETCHING competition on the topic "Nutritional Biochemistry"	Biochemistry staff	UG and PG students(113)
9	27.02.2024	2023 - 2024	HANDS ON WORKSHOP one day hands on workshop on Histopathological techniques	Dr. Lavanya R, MD Pathology, Consultant Pathologist, Doctors Diagnostic Centre and ABC Hospital gave a detailed lecture on Histopathological techniques and its role in diagnosis and treatment	PG students(22)

EXTENSION ACTIVITY

Date	Place	No. of students	Beneficiaries	Staff Accompanied
18.08.2023	Don Bosco Matriculation School katpadi	16	150	Ms. Arul Jothi K Ms. Indumathi P

17.10.20 23	Don Bosco Matriculation School katpadi	16	150	Ms. Indumathi P Ms. Madhumalathi D Ms. Lavanya. B
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