



J.J College of Arts and Science (Autonomous)
Sivapuram post, Pudukkottai- 622 422

Department of Biochemistry

J.J. College of Arts and Science (Autonomous)
Sivapuram, Pudukkottai

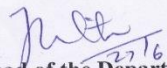
Department of Biochemistry
Special Lecture Programme

The Summer's club of Biochemistry organized a Guest Lecture Program on "**Silent Killer-Diabetes Mellitus**" on 27/06/2023. Dr. J.Christinal, Principal, Rajas Institute of Laboratory Medicine, Kavalkinaru, Tirunelveli, was the resource person.

The invited talk started at 11 am. Dr. J.Christinal explained Diabetes Mellitus which is a chronic, metabolic disease characterized by elevated levels of blood glucose, which leads over time to serious damage to the heart, blood vessels, eyes, kidneys, and nerves. The most common is type 2 diabetes, usually in adults, which occurs when the body becomes resistant to insulin or doesn't make enough insulin. In the past three decades, the prevalence of type 2 diabetes has risen dramatically in countries of all income levels. Type 1 diabetes, once known as juvenile diabetes or insulin-dependent diabetes, is a chronic condition in which the pancreas produces little or no insulin by itself. For people living with diabetes, access to affordable treatment, including insulin, is critical to their survival. There is a globally agreed target to halt the rise in diabetes and obesity by 2025. She also explained the prevention, Health impact, Diagnosis, and treatment of Diabetes Mellitus.

In the presence of Principal Dr.J.Parasuraman, JJ College of Arts and Science. The MOU was signed by Dr. J. Christinal, Principal, of Rajas Institute of Laboratory Medicine, Kavalkinaru, Tirunelveli on 27th June 2023 in JJ College of Arts and Science. The other dignitaries present on the occasion include Dr, Subramanian, Secretary, Dr.KavithaSubramanian, Trustee, and Dr.S.Kanitha Head of the Department of Biochemistry. The objective of MoU is to impart training to the students in the emerging area of disease prevention and diagnosis of Diabetes Mellitus. It facilitates the students to learn about the technique and recent tools used for the disease diagnosis and treatment of Diabetes Mellitus.

Every student learnt about Diabetes Mellitus. Students raised many questions about the Health impact and prevention of diabetes Mellitus and the resource person answered the queries raised by the students. finally, Ms.Sameera, third-year student delivered vote of thanks.


27/6/23
Head of the Department

Dr. S. Kanitha, M.Sc., M.Phil., Ph.D., SET,
Assistant Professor and Head,
Department of Biochemistry,
J.J. College of Arts and Science (Autonomous),
Pudukkottai Tamilnadu




27/6/23
Dr. J. PARASURAMAN M.A., M.B.A., M.C.A.
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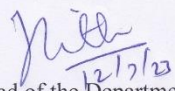
Department of Biochemistry

One Day State level Workshop
on
Nanoparticle Synthesis and their Biological Applications

The Sumner's club of Biochemistry organized a **One Day State Level Workshop** on **"Nanoparticle Synthesis and their Biological Applications"** on **12/07/2023**.
Dr. Sivakumar Muthusamy, Chief Technology Officer and Co-founder, Ariviya Deep Tech Pvt Ltd, Periyar Technology Business Incubator, Thanjavur was the resource person.

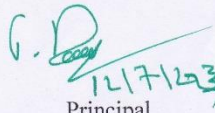
The invited talk started at 11 am. The session started with the welcome words by the Dr. S. Kanitha, Head of the Department of Biochemistry, enlightened the audience with her wisdom words on the importance of the event. Dr. Sivakumar Muthusamy about the field of Nanometer Scale Science and Technology (NSST) is very broad, ranging from nanoparticles, nanoclusters, mesoscopic systems and nano constrictions, to individual atoms and molecules and their self-assembly into defined structures such as nanowires or biomolecules. This is a field where the border between the traditional disciplines like physics, chemistry and biology is no longer detectable and interesting synergies arise, e.g., instruments developed in physics provide the precision and sensitivity to perform specific molecular recognition experiments in biology. The roots of NSST go back to Feynman. The originator of the famous sentence "There is plenty of room at the bottom". His focus was on tools based mainly on electron microscopes. In the afternoon session all the students attended the training programme and received hands-on experience in synthesis and characterization of nanomaterials and their application in food & agriculture, textiles, composites, sensors, pulp & paper and catalysis.

Every student learnt about Nanoparticle. Students raised many questions about the Nanoparticles Synthesis and their Biological Applications and the resource person answered the queries raised by the students. Finally, Ms. Sameera, III B.Sc Biochemistry, delivered vote of thanks.


12/7/23
Head of the Department

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12/7/23
Principal
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J.J. College of Arts and Science (Autonomous)
Sivapuram, Pudukkottai
Department of Biochemistry
Special Lecture Programme

The Sumner's club of Biochemistry organized a special lecture program on "Significance of Molecular Based Techniques in Disease diagnosis" on 17/07/2023. Dr. S. Shanmugaapriya, Associate Professor, Department of Biomedical Science Bharathidasan University Tiruchirappalli was the resource person.

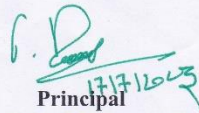
The invited talk started at 11 am. The session starts with the welcome words by the Dr. S. Kanitha, Head of the Department of Biochemistry, enlightened the audience with her wisdom words on the importance of the event. Dr. S. Shanmugaapriya described important considerations in the diagnostic process, such as the roles of diagnostic uncertainty and time. She also highlighted the mounting complexity of health care, due to the ever-increasing options for diagnostic testing and treatment, the rapidly rising levels of biomedical and clinical evidence to inform clinical practice, and the frequent comorbidities among patients due to the aging of the population. She emphasised on the increasing focus on developing better diagnostic technologies and disease prediction tools. Examples included minimally invasive technologies (such as ingestible sensors, or diagnostics that use hair or breath as a sample), artificial intelligence-based tools and portable diagnostic kits.

Every student learnt about Disease diagnosis. Students raised many questions about the various diagnosis kit available in the market and the resource person answered the queries raised by the students. finally, Ms. Aishwarya, PG second -year student delivered vote of thanks.


Head of the Department

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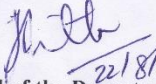



Principal
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J.J College of Arts and Science(Autonomous)
Sivapuram post, Pudukkottai
Department of Biochemistry
Awareness on Bioentrepreneurship for Life Science Graduates
On
22.08.23

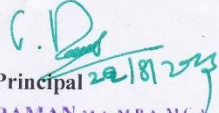
On 22nd of August 2023, Department of Biochemistry organized an Awareness program on Bio-entrepreneurship for life science graduates in commemoration with "WORLD ENTREPRENEUR'S DAY".

Dr. Anitha Rani, Director, Karpaga Vinayaka Institute of Management, Pudukkottai was the resource person. She enlightened the students regarding the importance of Bio-entrepreneurship. The lecture got started with the history of entrepreneurship and the impacts and also the turnovers which continued to the current entrepreneurs and also their lifestyle. She spoke about the importance of youngsters in entrepreneurship. The lecture paved way for the students about the process, how to start a business and the support of various funding agencies that a student can avail. She also mentioned some top government schemes for startup in India who support innovative ideas like PMSBY (Pradhan Mantri Suraksha Bima Yojana) and the ideas for self employment with examples who started their business in small scale during pandemic and got succeed. After that she also cleared the queries of the student. The lecture was completely filled with motivations.


22/8/23
Head of the Department

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Principal 22/8/23
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J.J College of Arts and Science(Autonomous)
Sivapuram post, Pudukkottai
Department of Biochemistry
One Day State Level Workshop
On
Scientific Writing
23.08.23

The Sumner's Club of the Department of Biochemistry, J.J College of Arts and Science(Autonomous), Pudukkottai organized a One Day State Level Workshop on "Scientific Writing". Mr. MurugarajShanjugam, Director, Tholga Publishing Services, Chennai acted as the resource person.

The workshop started auspiciously with Thamil Thai Vazhthu at 10.30am. Dr. S. Kanitha, Head, Department of Biochemistry, welcomed the gathering.

The whole programme was divided into 2 sessions. In the morning session the resource person discussed in detail about the important points which has to be taken into consideration while writing a research article. He said that the Scientific writing is a technical form of writing that is designed to communicate scientific information to other scientists. He emphasized that the scientific writing is a specialized form of technical writing, and a prominent genre of it involves reporting about *scientific studies* such as in articles for a scientific journal. He also explained that the Scientific writing is more likely to focus on the pure sciences compared to other aspects of technical communication that are more applied, although there is overlap.

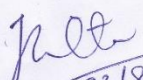
The afternoon session started at 1.30 p.m. The students were given hands-on training to draft an article. The resource person helped them to write the article. He took all the steps which proved extremely helpful for the participants to break the barrier which they had earlier faced while writing the article.

The doubts asked by the students were clarified by the resource person.

Post graduate students, Research Scholars and Project Fellow from various colleges and universities across Tamilnadu took part actively in the workshop.

The resource person also distributed the certificates to the participants.

Ms. Priyanka, I M.Sc Biochemistry student proposed the vote of thanks. The workshop came to end with National Anthem. The workshop was a grand success.


23/8/23
Head of the Department

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23/8/23
Principal

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**J.J College of Arts and Science (Autonomous)
Sivapuram, Pudukkottai
Department of Biochemistry
Webinar**

**on
"ROAD MAP TO CLEAR JOINT CSIR UGC-NET EXAMINATION"**

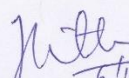
The Summer's club of Biochemistry organized a Webinar on "ROAD MAP TO CLEAR JOINT CSIR UGC-NET EXAMINATION, on 06.10.2023 at 11.00 am. Dr.D.KADAVEL Associate Professor, Department of Botany, Government Arts College for Men (A) Nandanam, Chennai, was the resource person.

Initially he explained about Nobel prize winners for Medicine for 2023 Katalin Kario and Drew Weissman for their research that led directly for the first mRNA Vaccines to fight COVID-19.

He introduced his topic on CSIR –UGC NET and SET examinations importance, students can become a researcher in the top Indian universities after passing the CSIR NET JRF, there are various jobs in labs such as JRF, SRF and assistant professorship.

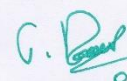
He explained about the CSIR-NET, DBT-JRF, BET Life sciences questions patterns, syllabus, modal questions and study plans and also recommended the books for CSIR NET Exam

Finally, he motivated the students how to pursue their higher studies and to do research which is related to Life Sciences. At the end of the session he also clarified the doubts raised by the students. Dr.S.Kanitha, Head, Department of Biochemistry delivered the welcome address, vote of thanks given by Keerthika II M.Sc. student, Department of biochemistry.


6/10/23
Head of the Department

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06/10/2023
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J.J.College of Arts and Science(Autonomous)
(Re-Accredited by NAAC with "B⁺⁺" Grade -4th cycle)
Sivapuram,Pudukkottai

Department of Biochemistry
Two Day State Level Workshop

On

"EXPERIMENTAL ANIMAL'S MODEL: CARE ,MAINTANANCE AND HANDLING"

19.10.2023-20.10.2023

The use of non-human animals in research is a longstanding practice to help us understand and improve human biology and health. Animal models allow researchers, for example, to carefully manipulate environmental factors in order to understand how they contribute to development, behavior, and health. Scientists thoughtfully and carefully choose and justify the specific animal models used in research based on their similarity to humans in anatomy, physiology, and/or genetics, or even everyday living conditions. Animals serve as "models" that represent certain aspects of a biological phenomenon to study. Animal models are essential for several biomedical research fields such as cancer biology and therapeutics, neuroscience, pharmacology and toxicology, neurobiology of diseases, endocrinology, public health, palliative medicine, also, in studies in human and animal biology and for the discovery and testing of new drugs.

In this context the **Sumner's club** of the **Department of Biochemistry, J.J. College of Arts and Science(Autonomous),Pudukkottai** conducted a **Two Day State Level Workshop** on **"EXPERIMENTAL ANIMAL'S MODEL: CARE,MAINTANANCE AND HANDLING"** on **19.10.2023 & 20.10.2023**.

The workshop was aimed towards providing hands- on training to young students & researchers in "handling small animals (mice and fish), ethics, basics of animal house management, different research methodologies towards animal research & future perspectives of inter-disciplinary & multi- disciplinary research opportunities". In addition, the workshop also aimed to put forward an effort in minimizing the gap between inter disciplinary & multi-disciplinary research opportunities for the well-being of human kind. The workshop helped to a great extent to enhance knowledge of science and contribute in developing multi-dimensional research ideas and opportunities. Participants would definitely have developed their skills, which can boost up their opening & opportunities for higher studies and research.

The workshop was inaugurated by **Dr. Kavitha Subramanian**, Management Trustee at the College Premises on **19th October, 2023**. The day began with a very auspicious note with the invocation of god's blessing followed by the Tamizh Thai Vaazhthu and official inauguration of the fest by **Dr. Kavitha Subramanian** by lighting the lamp. Our honorable Principal **Dr. J. Parasuraman** welcomed the gathering. **Dr. Kavitha Subramanian** delivered the Presidential address.

The Chief Guest **Dr. K. Karthikeyan**, Assistant professor, Department of Food Science and Nutrition, Periyar University, Salem, delivered the keynote address in which he emphasised at sharing and disseminating scientific information in the area of preclinical drug discovery and research using animal models as well as other alternative tool for biomedical



research. Since, the experimental animals have been proved as backbone of biomedical research programmes, he considered a constant need of updating scientific insight and understanding on latest developments in animal research and experimentation.

He also briefed the students regarding the “**Overview of the Experimental Animal’s model**”. A detailed demonstration session was also dealt with him in which he explained in detail about the handling and use of the Mice as an animal model for the research.

Dr. R. Ramesh, Assistant professor, Department of Biochemistry, J.J College of Arts and Science(Autonomous), Pudukkottaidelivered an illustrious talk on “**Zebrafish as a experimental model**”. The participants were taught about the handling of the fish and also the procedure for the same.

On the second day of the workshop **Dr. K. Karthikeyan**, Assistant professor, Department of Food Science and Nutrition, Periyar University, Salem, gave a “**Hand’s on training**”on the dissection of the Mice and the protocol to be followed for harvesting and preserving the organs for further experimentations.use of the Mice as an animal model for the research.

Dr. R. Ramesh, Assistant professor, Department of Biochemistry, J.J College of Arts and Science(Autonomous), Pudukkottai, explained about the behavioral pattern of the fish which has to be noted for research purpose was also taught to the participants. The methodology to be followed for harvesting the organs from the fish after treatment and also the preservative protocols were discussed.

Dr. S. Kanitha, Head and Assistant professor, Department of Biochemistry, J.J College of Arts and Science(Autonomous), Pudukkottai, discussed about the “**Recent Research Employing Animal Models: CPCSEA guidelines**”. She promoted the participants to adhere to scientific, institutional, and governmental principles, policies, laws, regulations and guidelines, in all research works using animals as model as it is ethical and moral responsibility of each researcher for the lives of animals.

In the valedictory function, **Dr. K. Karthikeyan**, Assistant professor, Department of Food Science and Nutrition, Periyar University, Salem, delivered the valedictory address. He also distributed the certificates to the participants. **Mr. P. Palaniappan**, Assistant professor, Department of Biochemistry, proposed the vote of thanks.

45 participants from various Universities and Colleges situated in various parts of Tamilnadu actively participated in the workshop.


Head of the Department

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Principal

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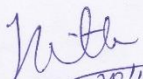
Department of Biochemistry
Career Guidance Programme
on
"FORENSIC SCIENCE"

The Sumner's club of Biochemistry organized a Career Guidance Programme on "FORENSIC SCIENCE", on 20.10.2023 at 11.00am. Mr. B. R. Balaji, Junior Scientific Officer, Forensic Science Department, Chennai was the resource person. Dr.S. Kanitha, Head, Department of Biochemistry welcomed the gathering.

The resource person said that the word forensic comes from the Latin word forensis: public, to the forum or public discussion; argumentative, rhetorical, belonging to debate or discussion. A relevant, modern definition of forensic is: relating to, used in, or suitable to a court of law. He discussed in detail about the role of the forensics department in the recent past which has expanded to encompass a wide range of scientific, technological, and investigative responsibilities. As law enforcement agencies adapt to new challenges and opportunities, the forensics department remains a critical component in ensuring justice, public safety, and the effective resolution of criminal cases.

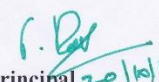
Mr. Balaji emphasized how the Forensic Science serves as a catalyst for advancement, shedding light on the latest scientific and technical breakthroughs in forensics that are revolutionizing every aspect of crime scene investigation, evidence analysis, criminal identification, and prosecution.

Finally, he motivated the students to pursue their higher studies in the field of forensic science and also gave a detailed outline regarding the exam which they can opt in order to get into forensic science department. At the end of the session he also clarified the doubts raised by the students. Ms.S. Keerthika II M.Sc. student, Department of biochemistry proposed the vote of thanks.


20/10/23
Head of the Department

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Principal 20/10/23
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**J.J College of Arts and Science (Autonomous)
Sivapuram, Pudukkottai
Department of Biochemistry
Guest Lecture Programme
on**

“SCIENCE BEHIND MANUFACTURING OF BIOLOGICAL PRODUCTS IN INDUSTRY”

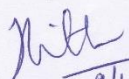
The Summer's club of Biochemistry organized a **Guest Lecture Programme “SCIENCE BEHIND MANUFACTURING OF BIOLOGICAL PRODUCTS IN INDUSTRY”**, on **09.01.2024 at 11.00am**. Mr. Pasha Shaik, Manager, Biocon Biologics, Bangalore, was the resource person.

The session started with the details about the Scientific fields used in developing biologics include genomics and proteomics, as well as microarray, cell culture, and monoclonal antibody technologies. Increasing knowledge of genetics and cell processes leads to potential new biologic (and drug) targets at each step in the protein-production process

The resource person threw light on the processes in Biomanufacturing which involves engineering a cell to produce a specific protein. Scientists use well-established techniques to transfer a gene encoding the desired protein into a “production cell.” The two most commonly used production cells are E. coli bacterial cells and Chinese hamster ovary cells, or CHO cells.

He emphasized the application of the principles of engineering and biological science to create new products from raw materials of biological origin, for example, vaccines or food.” Or in other words, it can also be defined as, “the use of living organisms or their products to modify or improve .

Finally, he motivated the students how to pursue their higher studies and to do research which is related to Life Sciences. At the end of the session he also clarified the doubts raised by the students. Dr.S. Kanitha, Head, Department of Biochemistry delivered the welcome address. Vote of thanks was proposed by Keerthika II M.Sc. student, Department of biochemistry.


9/1/24
Head of the Department

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09/01/24
Principal
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J.J COLLEGE OF ARTS AND SCIENCE(AUTONOMOUS)
Sivapuram, Pudukkottai

DEPARTMENT OF BIOCHEMISTRY
Two Day International Hands - on Workshop
On
“GENETIC BULEPRINT-EXPLORING PHYLOGENETICS & MOLECULAR
DOCKING”
01/02/2024-02/02/2024

A two-day international workshop-cum hands-on-training on “The genetic blueprint-exploring phylogenetics and molecular docking” was organized by the department of Biochemistry, J.J College of arts and science Pudukkottai on February 1 and 2. The workshop was primarily being organized to impart knowledge and training to participants by experts on molecular docking. Molecular docking is a key tool in structural molecular biology and computer-assisted drug design. Molecular docking enables the extraordinary structural diversity of natural products to be harnessed in an efficient manner. The use of molecular docking in virtual screening for the identification of bioactive molecules has become an integral part of the drug discovery process.

The inaugural function was presided over by Dr. J. Parasuraman, Principal, J.J College of arts and science, Dr. Kavitha Subramanian Managing trustee, Karpaga Vinayaga Educational trust, Dr. Selvarajan Ramganes, Assistant Professor, Institute of Deep Sea Science and Engineering, Sanya, Republic of China. Chief guest addressed the students and enlightened them about this promising branch of biology and different career options in the emerging field of Bioinformatics. Dr. S. Kanitha Head of the department of Biochemistry, JJ College of Arts and Science Pudukkottai. Proposed vote of thanks.

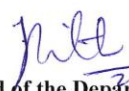
The first day sessions included “Applications of Phylogenetic’ and various methods of sequence analysis to generate phylogenetic trees. The limitations associated with sequence alignment methods lead to the development of alignment-free sequence analysis by Dr. Ying Dong Li, Researcher, Hong Kong University of Science and Technology, Hong Kong, “Introduction to Hands on Training” by Dr.Selvarajan Ramganes, Assistant Professor, Institute of Deep Sea Science and Engineering, Sanya, Republic of China explained basic concepts in phylogenetic analysis, what trees represent and how to interpret them. how to produce a multiple sequence alignment from DNA and protein sequences, and the pros and cons of different alignment algorithms. Students learned about different methods of phylogenetic inference, with a particular focus on maximum likelihood and how to assess confidence in your tree using bootstrap resampling.

On day 2 “Current aspects of Molecular Dynamics simulations in proteomics” by Dr .K. Anbarasu, Associate Professor and Head Department of Computational Biology, Institute of Bioinformatics, Saveetha School of Engineering Tamil Nadu explained about Molecular dynamics simulations provide powerful tools for the exploration of the conformational energy landscape accessible to these molecules, and the rapid increase in computational power coupled with improvements in methodology makes this an exciting time for the application of simulation to structural biology, and Unlocking secrets: Dynamics insights from In silico Molecular



Docking Aligned with Experimental Relations” by Dr.I.Lakshmanan, Scientific Co-coordinator, Genetics and Genomics Department, Micro Health Laboratories, Kozhikode, Kerala, India explained In in-silico molecular docking studies of bio-active peptides or chemical drug molecules that exert their action by binding with specific receptors provides evidence on binding conformation, pattern and affinity.

The valedictory function was presided over by Dr.I. Lakshmanan, and he distributed the certificates to all the participants. Delegates from different institutions expressed their opinion. Mr. P. Palaniappan, Assistant Professor, Department of Biochemistry, JJ College of Arts and science Pudukkottai, proposed vote of thanks.


Head of the Department

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Principal 02/02/24
Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.
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PRINCIPAL
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J.J. College of Arts and Science (Autonomous)
Sivapuram, Pudukkottai
Department of Biochemistry
Workshop on
Essential & Basic Techniques of Stem cell
12.02.2024 – 14.02.2024

A workshop-cum hands-on-training on "Essential & Basic Techniques of Stem cell" was jointly organized by the department of Biochemistry, J.J. College of Arts and Science(Autonomous) Pudukkottai and Rajas Dental College & Hospital, Tirunelveli, from February 12th to 14th, 2024 at Tirunelveli. The workshop was primarily being organized to provide students the basic understanding of how to establish themselves in stem cell research, and aid established scientists already working with pluripotent stem cells in enhancing the quality and reproducibility of their work. The workshop also focused on all the ethical guidelines to be followed in stem cell research with insights into the mechanisms behind establishing a stem cell repository. The workshop was open to applications from scientists in different stages of their careers wishing to obtain skills and knowledge in this area.

The inaugural function was presided over by Dr. Jacob Raja, Chairman, Rajas Medical Institution, Dr. Alex Mathews Muruppel, Principal, Rajas Dental College & Hospital, Tirunelveli, Dr. J. Christinal, Head Department of Biochemistry, RDCH, and Dr. S. Kanitha, Head of the department of Biochemistry, J.J. College of Arts and Science(Autonomous), Pudukkottai. The first lecture was delivered by Dr. Anand Kumar Arachimani, Managing Director, Auto Stem Laboratories, Chennai. He explained about the overview of adult and pluripotent stem cells and their basic characteristics. Isolation, expansion, and therapeutic potential of multi-potent adult progenitor cells from the bone marrow stromal tissue were explained. In the afternoon session all the students got involved in Hands on training about isolation of stem cells from adipose tissue.

Second day students learnt about plating and culture of adipose derived stem cells and three- dimensional culture systems and biomimetic systems employed to recapitulate cell matrix interactions, mechanobiology of stem cells, and biomaterials.

The third day lecture included about application of stem cells in regenerative medicine biomaterials and different biophysical tools used in stem cell research and advancements in the field of stem cells and regenerative medicine.

The valedictory function was presided over by Dr. Alex Mathews Muruppel, Principal, Rajas Dental College & Hospital, Tirunelveli. He distributed the certificates to the participants. Delegates from different institutions expressed their opinion. Ms. P. Elakkiya, Lecturer, Department of Biochemistry, RDCH, proposed vote of thanks.


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(Re-Accredited by NAAC with "B⁺⁺" Grade)

Pudukkottai – 622422, Tamilnadu

Department of Biochemistry

A three days training Programme entitled "Regenerative Agriculture" was Jointly organized by Department of Biochemistry and Naandi foundation during 5,6 and 7 March, 2024

The major objective of the training Programme was to train the students regarding the practices and components of natural and organic farming of crops grown in millet -based cropping system so that such practices can be adopted by the farmers in economically sustainable manner. Altogether 50 students were enrolled for this training Programme. Mr. K. Ponalagendra Raja, Organic trainer, Thalir Organic farming, Manapparai took up the first day session. The training lecture focused on "Management of insects and its impact on food safety". He majorly emphasized on the different aspect of beneficiary insects and importance of non-chemical pest management in food safety in his interaction with the students. The participants were imparted with theoretical as well as practical sessions to develop an overall perspective and knowledge so that the trainees can prepare few of the important components of organic and natural farming of their own using on farm resources, agricultural wastes and crop residues. The topics covered during the training programme were scope, importance and components of organic and natural farming, composting of agricultural waste, practices and components of pest management in natural and organic farming, hands on training for preparation of compost, beejamrit, jeevamrit, vermicomposting etc. The pre- and post- evaluation assessment of the trainees was also conducted to know the impact of the training.

The second day session was taken up by Mrs. P. Devaki chellaiam motivational speaker she talked about "Organic Farming and Food Safety in Horticultural Crops". She touched upon the Current scenario of organic and inorganic fertilizers in India as well as in the world; Various technical experiments conducted on farms; Effect of organic and inorganic fertilizers on agronomical and horticultural crops; Persistence, dissipation of major inorganic fertilizers and Effect of macronutrients and micronutrients in horticultural crops under stress condition. She encouraged the farmers to adopt Organic Farming systems such as drip-irrigation and Food Safety system.

A field visit was arranged for students to the Organic Unit spread over an area of 5 hectares at manapparai. Mr. K. Ponalagendra Raja, explained the various package of practices in organic farming carried out at Organic Unit. He also demonstrated vermin-composting techniques as well as application of biofertilizers in different cropping systems and their impact. At the end, students shared their experiences in an interaction session. Doubts and queries related to various aspects of food safety and organic farming were addressed. The trainees were felicitated with certificates by the Dr.S. Kanitha, Head of the Department of Biochemistry. The event ended with a Vote of Thanks to all the dignitaries, students as well as faculty members who were associated with this three day students training Programme.

Kanitha
7/3/24
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