



J.J. COLLEGE OF ARTS AND SCIENCE (Autonomous)

A Silver Jubilee Institution

Affiliated to Bharathidasan University - Tiruchirappalli
J.J Nagar, Sivapuram Post, Pudukkottai - 622 422, Tamil Nadu.

DEPARTMENT OF BIOCHEMISTRY

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

One Day State Level Workshop on

Experimental Animal's Model: Care, Maintenance and Handling

The Summer's club of the Department of Biochemistry, J.J. College of Arts and Science organized a state level one day workshop on 26.02.2021, Dr. S. Achiraman, Associate Professor, Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli acted as the resource person. Mrs. S. Kanitha, Head, Department of Biochemistry, welcomed the gathering. The resource person enlightened the participants about the importance of experimental animal models in research.

He threw light on the various key measures to be followed and taken care of the laboratory animals. He explained in detail about the maintenance of laboratory animals. The students were made aware of the handling procedures to be followed while dealing with animals. He emphasized the importance of precautionary measures which have to be strictly followed during the experimental procedure. Each and every student was taught to collect urine samples and blood samples from the animals. They were also given information regarding the storage and preservation of collected samples. The resource person also dealt in detail about the various methodologies adopted for inducing various types of disease conditions within the animal. Finally the procedures to be followed to carry out the dissection process and for harvesting the organs were explained to the participants. The standard methodology which is followed for safely storing the harvested organs for future use also explained. The resource person insisted the participants to abide by the rules and regulations framed by the ethical committee strictly. He encouraged and motivated the students to take up and promote research through experimental animal model. During the whole session the resource person clarified the doubts arose by the students. Finally, the resource person distributed the certificates to all the participants.

Miss. B. Abirami, I M.sc., Biochemistry proposed the vote of thanks.


Head of the Department

Mrs. S. KANITHA, M.Sc., M. Phil.,
Assistant Professor & Head
DEPT. OF BIO-CHEMISTRY
J.J COLLEGE OF ARTS & SCIENCE
PUDUKKOTTAI




Principal

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.A.,
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DEPARTMENT OF BIOCHEMISTRY

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

Department of Biochemistry

Report on International Webinar

On

Job role in Food processing industry. (09.07.2021).

The Sumner's Club of Biochemistry, J.J. College of Arts and Science (Autonomous), Pudukkottai, Organized a special lecture on "Our job role in Food processing industry". The lecture was delivered by Mr. Salman Khan, Quality Control Inspector, Forsan Foods & Consumer Products Company Ltd. Riyadh, KSA.

He delivered a detailed presentation on Food processing industry study related with for a new dimensional application and in the field of Food processing technology and also enlightened the student's employment scope in this field.

He explained the Processed Food Entrepreneur is responsible for starting and managing a food processing organization by exploring the market, identifying opportunities in food processing, innovating, giving a different dimension to product/s, sizing up its value and working towards/making profit.

Also, He noted on strong and dynamic food processing sector plays a vital role in reduction in the wastage of perishable agricultural produce, enhancing shelf life of food products, ensuring value addition to agricultural produce, diversification & commercialization of agriculture, generation of employment, enhancing income of farmers.

Vote of thanks given by Ms.P.Abirami II M.Sc, Dept.of Biochemistry. All faculty members and students from the Department of Biotechnology, Microbiology and Botany were actively participated in this programme.

Head of the Department

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Department of Biochemistry

Report on National Webinar

On

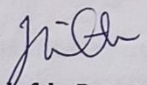
Cosmetics: Become an Entrepreneur. (16.07.2021)

The Sumner's Club of Biochemistry, J.J.College of Arts and Science (Autonomous), Pudukkottai, Organized a special lecture on **"Cosmetics: Become an Entrepreneur"**. The lecture was delivered by **Dr. Asha Srinivasan**, program Coordinator M.Sc Nanoscience & Technology and Cosmetic Science, Faculty of Life sciences, JSS Academy of Higher Education & Research, Mysore. She delivered a detailed presentation on Lifescience study related with nanotechnology for a new dimensional application and in the field of cosmetics and also enlightened the student's employment scope in this field.

She explained the best products and the most successful entrepreneurs solve a problem for their audience / customer. Problem solving is at the core of every great innovation in history! So, start by dialing in to what your particular niche is, or what you want it to be. Because depending on what your goal is, i.e., successful salon owner, renowned stylist and best beauty influencer, your path to getting there will be slightly different.

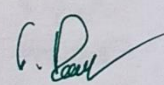
Also explained about the Nanotechnology incorporation in cosmetic formulation is considered as the hottest and emerging technology available. Cosmetic manufacturers use nanoscale size ingredients to provide better UV protection, deeper skin penetration, long-lasting effects, increased color, finish quality, and many more.

Vote of thanks given by Ms.S.Kanitha, Head, Dept.of Biochemistry. All faculty members and students from the department of biotechnology, microbiology and botany were actively participated in this programme.


Head of the Department

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Report on International Webinar

On

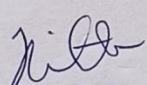
Nanoparticle based vaccine for bacterial and viral infectious diseases. (24.08.2021)

The Sumner's Club of Biochemistry, J.J.College of Arts and Science (Autonomous), Pudukkottai, Organized a special lecture on "Nanoparticle based vaccine for bacterial and viral infectious diseases". The lecture was delivered by Dr. Sankar Renu, Group Lead Senior Formulation Scientist, Upkara LLC, USA. He gave a detailed presentation on Nanoparticles utilization in curing various infectious diseases

He explained that nanoparticles contain nitric oxide gas, which is known to kill bacteria. Studies on mice have shown that using the nanoparticle cream to release nitric oxide gas at the site of staph abscesses significantly reduced the infection. Burn dressing that is coated with nanocapsules containing antibiotics.


And also he noted on application of AgNP via the drinking water in the concentration of 50 ppm reduced broiler growth, impaired immune functions and had no antibacterial effect on different intestinal bacterial groups, which may limit the applicability of AgNP against *C. jejuni* in broiler chickens.

All faculty members and students from the Department of Biotechnology, Microbiology and Botany were actively participated in this programme. Finally, vote of thanks given by Abarana II M.Sc student, Dept.of Biochemistry.


Head of the Department

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Report of One day State Level Workshop

On

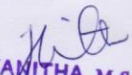
Experimental Animal's model : care, Maintenance & Handling

The Summer's club of Biochemistry organized a state level workshop on "Experimental Animal's model : Care, Maintenance & Handling" on 29/10/2021. Dr. K.RAMESHKUMAR, Head(i/c), Department of Biotechnology, Assistant Professor of Zoology, Rajah Serfoji Government College (Autonomous), Thanjavur acted as the resource person.


The Morning session started at 10.30 am. Dr. K.RAMESHKUMAR explained regarding the important features to be taken care of while handling the laboratory animals. He also briefed about the general precautionary steps to be undertaken while dealing with the laboratory animals. He emphasized the importance of in vivo studies in the field of medical research. He emphasised the students to take almost care of the laboratory animals for better results. The procedure to be followed strictly while handling the laboratory animals were discussed in detail. The details and importance regarding the CPCSEA and the IAEC were dealt with in brief. Their role in maintaining ethics within the institution was highlighted.

The students became aware of the methodologies to be adopted while collecting and storing the blood sample and urine sample from both the male and female albino rats. Also steps to be followed while dissection and harvesting the organs and preservation methodologies of the same thereafter for further studies were dealt in detail.

Each and every student learnt to handle the mice. They were made to collect and store the blood sample and the urine sample. The identification and differentiation of male and female rats were also taught. Further the various mode of treatments were demonstrated. The students became aware of complete animal handling, maintenance and care at the end of the workshop. Dr. K.Rameshkumar distributed the certificates to the participants during the valedictory function.


Mrs. S. KANITHA, M.Sc., M. Phil.,
Assistant Professor & Head
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Guest lecture programme on

Unravelling the Metabolomics of Phytodrugs in Drug Discovery and

Development

The Summer's club of the Department of Biochemistry, J.J. College of Arts and Science organized a special guest lecture on 03.12.2021. Dr. P. Suresh Kumar, Professor, Department of Biotechnology, University college of Engineering Anna University, Tiruchirappalli acted as the resource person. Mrs. S. Kanitha, Head, Department of Biochemistry, welcomed the gathering. The resource person enlightened the participants about the importance of phytodrugs and its discovery and development.

He also Explained Metabolomics may be a more holistic strategy to gain valuable insights into the anticancer, antidiabetic, and antirheumatic mechanisms of action of plants but this has remained largely unexplored. This review, therefore, he presented the available metabolomics studies on the above effects of herbal medicines commonly used in India and China. The emerging technological platform metabolomics involves the comprehensive quantitative and qualitative analysis of a specific set of metabolites or all metabolites present in a specific cell, tissue, or organism that attracted a lot of attention in recent years and is being used in drug discovery from natural plant resources, quality control of medicinal plants, and discovery of lead compounds. The popularity of metabolomic studies has increased because of the enormous developments and improvements in analytical technology and bioinformatics like Insilico studies.

In addition, he presented some scientifically understudied 'candidate plants' for various metabolomics studies and highlight the relevance of metabolomics in addressing other challenges facing the drug development of various ailments on herbs. Finally, he discussed the challenges of using metabolomics to uncover the underlying mechanisms of potential herbs and the progress made in this regard. He encouraged and motivated the students to take up and promote the research through phytochemical studies on plants invitro to invivo studies. During the whole session the resource person clarified the doubts arose by the students. Miss. B. Abirami, II M.sc., Biochemistry proposed the vote of thanks.

Head of the Department

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