

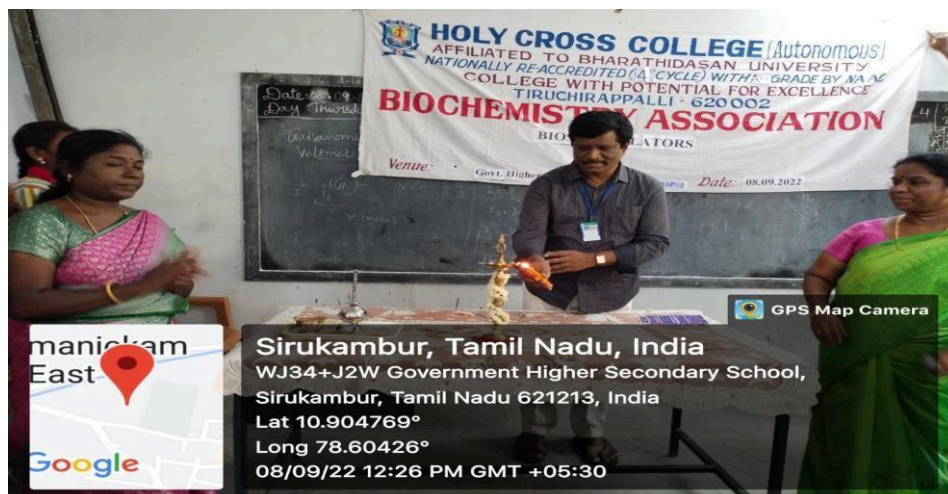
ASSOCIATION REPORT (2022-2023)

The PG Department of Biochemistry inaugurated the KREBS CLUB association for the year 2022 – 2023 and organized a special guest lecture on “**Role of Nutraceuticals in today’s life**” on **17th August 2022** from 11.00 a.m. to 12.30 p.m. in Shanthi’s hall. The inauguration function started with a prayer service followed by introducing the elected office bearers and they were bestowed with a badge by the chief guest, head of the department and senior faculty and a welcome address was given by Association President. The guest speaker for this session was **Rev. Sr. Dr. MARY JANSI**, Principal, Holy Cross College of Education, Tiruchirappalli. The Resource person spoke on the key points such as essentials of food, Vegetables, fruits, millets, grains and secondary metabolites that prevent various diseases. The speaker also discussed how to lead a healthy life with natural foods. Totally 100 students and 9 faculties benefited through this programme. It was an interesting and interactive session. The session ended with Vote of thanks.



On **08th September 2022**, the PG Department of Biochemistry conducted a one day science cum health exhibition programme **BIOSCINTILLATORS** for the rural school students at **Government Higher Secondary School, Sirukambur**. The programme started with the prayer service and lightening of the lamp. The exhibition programme concentrated on various intra disciplinary topics in life science in which the students of the department exhibited various models, PowerPoint presentations, chart works, experiments and videos pertaining to relevant topics. The school students involved themselves in the programme and actively participated in all

the interactive games. The following topics were presented. Scope of Biochemistry, Nutrition and Hygiene, Human Physiology, Immunology, Body Mass Index, Infection and Prevention, Food Adulteration, Environmental awareness, Information corner. This program served as a good interactive approach between school and college students and paved a very helpful way for their development. A total of 500 school students benefited from this programme.





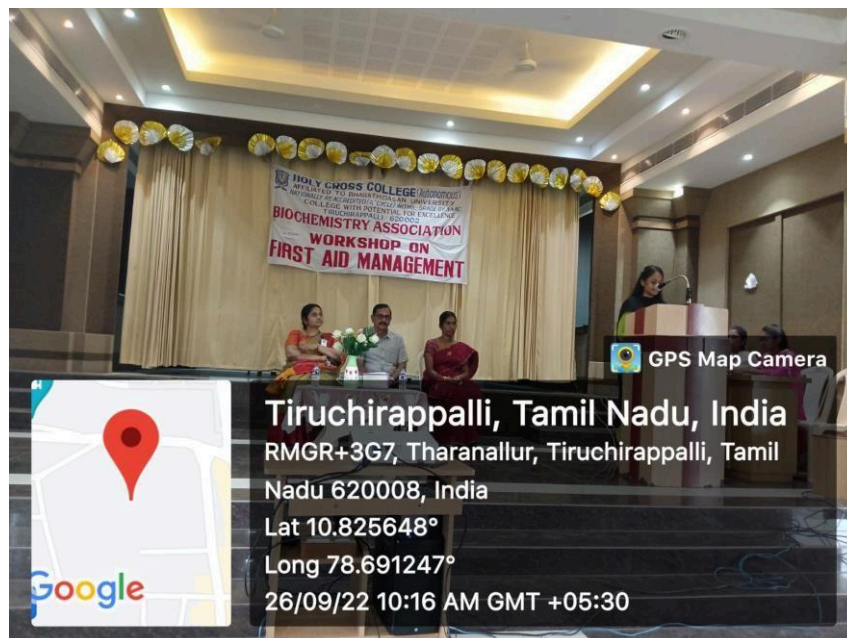
In commemoration of the Centennial Celebration, the PG, Department of Biochemistry, Holy Cross College (Autonomous), Trichy, organized **A State Level Intercollegiate Meet “ELUTEADUS”- 2K22** on **11th October 2022** in Our Lady’s Hall. A total of 260 participants registered for Eluteadus from around 25 colleges all over Tamil Nadu like Seethalakshmi Ramaswamy College Tiruchirappalli, Theivanai Ammal College for Women - Villupuram, Bishop Heber College, Trichy, Dr.Umayal Ramanathan College for Women – Karaikudi, American College, Madurai , Jamal Mohamed College, Trichy, MIET College - Tiruchirappalli, J.J. College of Arts and Science, Pudukkottai, EGS Pillai College - Nagapattinam, Periyar E.V.R College, Tiruchirappalli ,Srinivasan College of Arts and Science, Perambalur, St.Joseph’s College, Trichy, Srimad Andavan Arts and Science College, Trichy. The Inauguration started with a prayer service, Dr. A. K. Umera Begam, Head, PG Department of Biochemistry, gave the welcome address. It was concluded with the vote of thanks by Ms. Abirami Student Council member. A total of nine events were conducted - Coscom, Photography, Face painting ADZAP, Just A Minute, Vegetable and fruit carving, Model Presentation, Crack your Mind, Fashion Show. The valedictory function started with a Prayer Service followed by the reading of association minutes by Ms. Angelin Seema, Association President. Dr.D.Prema, Assistant Professor of Biochemistry, delivered the Welcome Address. Valedictory address was delivered by the Chief Guest Dr.K.T.Tamilmani, Associate Professor and Head, Department of English, Nehru Memorial College, Puthanampatti. The title winner of Mr. Eluteadus was Mr. Visweswaran Department of Zoology, Bishop Heber College. The overall shield was bagged by American College, Madurai and the runner up were Bishop Heber College, Tiruchirappalli. The report of intercollegiate competition was given by Dr.B.Ramya Assistant Professor. The event concluded with M. Swetha, Association Secretary proposing the vote of thanks followed by College anthem.





The Department of Biochemistry organized the First Aid Management workshop that was held on **26th September 2022** at Regina's hall, Holy Cross College at 9.30 am. The workshop started with a prayer service. The chief guest **Mr. Shivaramalingam, Lecturer and trainer in first aid St. John's Ambulance, Trichy** was honoured by our head of the department. The association inauguration minutes were read by the student secretary. The chief guest delivered a lecture on "First aid management ". He explained the importance of "First aid" as it is a lifesaving one. He explained the various terminologies and methods of first aid

for accidents and health issues. He described DRABC (Danger, Response, Airway, Breathing and Circulation) which is used to analyse the status of the causality. He explained about CPR and demonstrated it through video and live demo. The do's and don'ts of first aid in CPR was also elaborated in detail. Hands on training was given to the students on different methods of dressings for fractures. Students gained extensive knowledge about first aid for heart attack, wounds, burns, scalds and electrical injuries through practical experience. He also spoke on diet and the need to do exercise in our day to day life. The workshop ensued with the students in an informative, practical and enjoyable manner. A total of 95 students participated in the workshop including the NME students of various departments. It was an interactive session, students raised questions regarding first aid and Mr. Shivaramalingam clarified the queries. The session ended with the National Anthem.





The Department of Biochemistry IIC organized **IDEATHON contest and guest lecture on “INNOVATION IN TECHNOLOGICAL ENTREPRENEURSHIP”** 20.12.2022 from 10.00 am to 1.30 pm in Sophy’s Hall. The lecture started with a prayer service followed by a welcome address and minutes reading by the IIC secretary and president. The guest speaker for this session was Dr.Sivakumar Muthusamy, Chief Technology Officer Co-founder, Ariviya Deep Tech Pvt Ltd. Vallam. The guest speaker discussed the key points like innovation, product development and Entrepreneurship. The lecture was focused to create awareness among students about the IIC and to encourage the students to create a new product for the benefits of society. Totally 48 students and 9 faculties benefited through this lecture. It was an interesting and interactive session. The session ended with Vote of thanks. The Ideathon contest was conducted to encourage the generation of innovative new products, services and technologies from our students within Holy Cross College which can become the foundation for new businesses. This session was a Level 1 IIC competition where groups of students presented their own innovations and explained their ideas to the guest. There were totally 11 teams and each team was given a particular timing of 4-5 minutes to present their ideas. He analysed their innovative ideas, interrogated each team about their way of implementation and also suggested advice to the students. His advice was very much useful and it inspired the students to upgrade themselves to the next level. Overall, the session was very informative. Finally, the guests evaluated their innovative ideas and declared the results of the IDEATHON contest 2022.



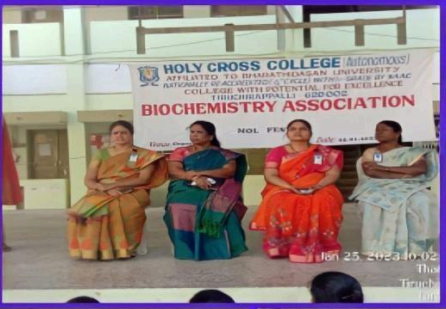
The PG Department of Biochemistry's KREB'S CLUB organized a special lecture on **“CAREER GUIDANCE ON COMPETITIVE EXAM”** on **21.01.2023** from 2.30 pm to 3.30 pm in Shanthi hall. The event began with a prayer session, then the head of department welcomed the chief guest and honoured him with a memento. The association president read the minutes, and a welcome address was given by the association secretary. The Guest speaker for this session was **Mr.Mohamad Siddique**, Director of Nimir Academy, Tiruchirappalli. During the presentation, the resource person covered important topics such as the several types of competitive exams offered by the Indian government, educational requirements for the exams, age restrictions, fee information, and merit scores. He also discussed the civil service test and how to pass its sublevels. Totally 101 students and 9 faculty benefited from this programme. It was an engaging and lively session. The session ended with the vote of thanks by the association Vice president.



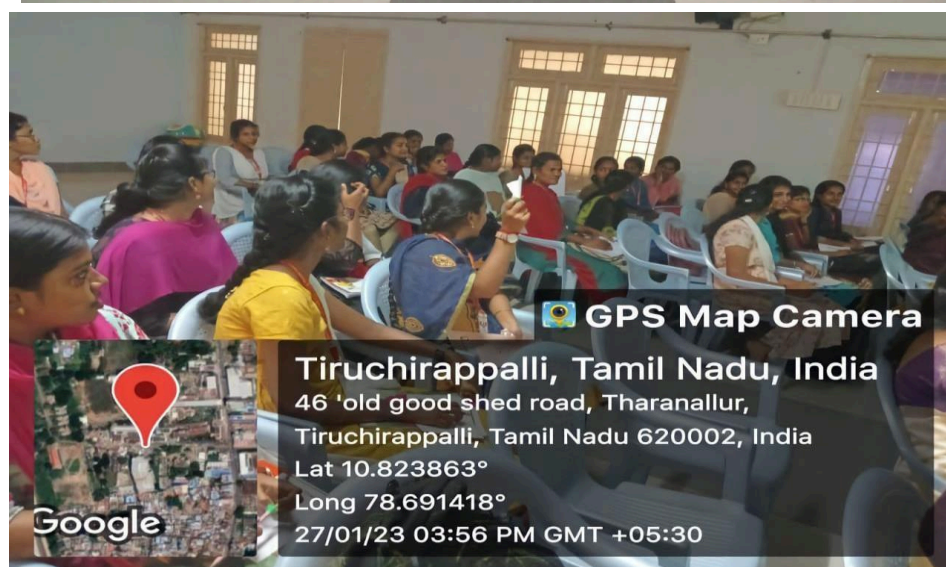
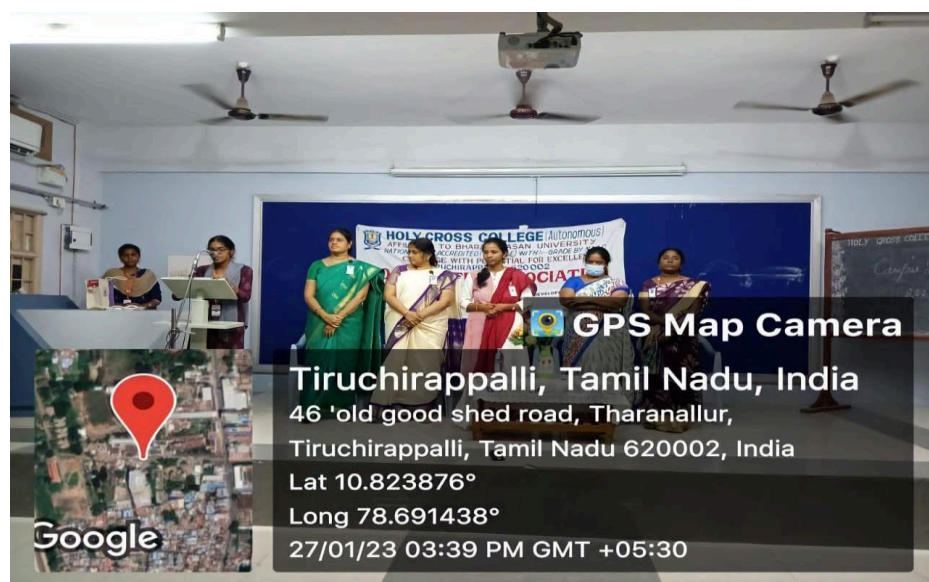
The PG Department of Biochemistry organized an **Intra-departmental competition**” **Molfest 2K23**” on **25th January 2023**. The Inauguration of Molfest started with the prayer services and the welcome address was delivered by Ms.Meena Association incharge of 1st PG Biochemistry. All UG and PG students of the department actively participated in all the events. The events conducted were Rangoli, Block & Tackle, Model Presentation, Wealth out of waste, Quiz, Connection, Mehendi, Face painting, Fashion Show, Treasure Hunt. Rangoli with the theme “Centennial Celebrations – a view on smart village”, Face painting with the theme“science and health”. In the Model presentation the working models on human and cell physiology, advanced water purification methods, vaccine production were displayed. And for the event Mehandhi “nature” was given as a theme to the participants. Totally 101 participants

exposed their talents in MOLFEST 2K23. The valediction started with a prayer services .Dr.S.Josephinol, Assistant Professor, Department of Biochemistry and Dr.A.K Umera Begam Head Department of Biochemistry distributed the prizes to the winners. Finally the program concluded with the vote of thanks by Ms.Shivani, Association incharge of I UG.





The PG Department of Biochemistry's KREB'S CLUB organized a special lecture on "POSITIVE ATTITUDE IN PERSONALITY DEVELOPMENT" on 27th January 2023 from 2.30 pm to 3.30 pm in Shanthi hall. The guest speaker for this session was **Ms.Punitha Nancy**, Zonal Lead and project coordinator Talent Ease. The session began with a prayer service. Dr. A. K. Umera Begam, Head, Department of Biochemistry welcomed the chief guest with a memento. Ms. T. Abirami student council members read the minutes, and the welcome address was given by Ms.Sivaranjani Association Secretary. The Resource person started the session with an ice breaking activity of drawing a self-portrait of them. She also discussed what attitude means, kinds of attitude students should have, and how a positive attitude may reflect one's life. Totally 101 students and 9 faculty benefited from this programme. It was an engaging and lively session. The session ended with the vote of thanks by Ms.Swetha, Association Vice President.



The PG Department of Biochemistry organized a one day **International Conference** on "Future prospects in Cancer Nanotechnology." on 21st February 2023 at Our Lady's Hall.

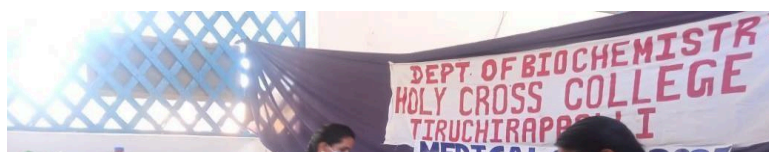
The main objective of the Conference was to make students and the scholars aware of and get equipped with knowledge on Nano materials in Cancer research which enables the young minds to enhance their research interest. Totally 181 students participated from various universities and colleges such as Bharathidasan University, Tiruchirappalli, Madurai Kamaraj University, Madurai, Annamalai University, Chidambaram, Savitha Dental College, Madurai, Seethalakshmi Ramaswami College, Tiruchirappalli, Maruthu Pandiar College, Thanjavur, St. Joseph College, Tiruchirappalli, Jamal Mohamed College, Tiruchirappalli, National College, Tiruchirappalli, M.I.E.T College, Tiruchirappalli, Srinivasan College of Arts and Science, Perambalur, Indira Gandhi College, Tiruchirappalli, Bharathidasan Constituent College for women, Orathanadu, Thanthai Periyar Government Arts College, Tiruchirappalli. The Inaugural session of the conference started with prayer service and welcome note by Dr. A. K. Umera Begam, organizing secretary & Head, PG Department of Biochemistry, Holy Cross College. Our guest of honor, Dr. Pasupuleti Visweswara Rao, Professor, School of Biological sciences, Taylor's university, Kuala Lumpur, Malaysia enlightened the participants with his inaugural address. This was followed by felicitations by our beloved Secretary Rev. Dr. Sr. Annie Xavier and by our dynamic Principal Rev. Dr. Sr. Christina Bridget. The inauguration ended with the vote of thanks by Dr. S. Josephinol, Assistant Professor, PG Department of Biochemistry, Holy Cross College, Tiruchirappalli. The first technical session started with our eminent speaker Dr. Pasupuleti Visweswara Rao, Professor, School of Biological sciences, Taylor's university, Kuala Lumpur Malaysia. Sir shared his vast knowledge on Phyto nanomedicine and metabolic diseases. Professor, highlighted the efficiency of nanoparticles in treating various diseases and complications. He also focused on the mode of action of secondary metabolites against free radicals' generations. The second technical session was handed over to Dr. A. Antony Joseph Velanganni Assistant Professor, Department of Biochemistry, School of Life Sciences, Bharathidasan University, Tiruchirappalli. He gave a lecture on Cancer nanomedicine. Sir, explained the various types and treatment of cancer. He also shared the applications of Nanomedicine in cancer. Finally, sir concluded that cancer nanomedicine will overcome the inherent shortcomings of conventional cancer diagnosis and therapy. The third technical session on Real time PCR: Design of primers and expression analysis of genes was presented by Dr. K.M. Saradhadevi, Assistant Professor, Department of Biochemistry, Bharathiyar University, Coimbatore. Madam shared her knowledge on applications and three phases of Real time PCR. She focused on the selection and designing of primers by Bioinformatics software tools. After lunch, the fourth technical session started with Dr. P. Kumar, Assistant professor, Department of Animal Health and Management, Alagappa University, Karaikudi. Sir, delivered a lecture on Mammalian Cell culture and Cancer Nanotheranostics. Professor explained clearly about the Origin of life, structure and functions of cell and mammalian cell culture. Sir also insisted that

mammalian cell culture is an important tool for the development of cancer Nanotheranostics. Poster presentation was conducted and the best 3 posters were awarded. Valediction started with Prayer Service. Dr. B. Ramya, Assistant Professor, PG Department of Biochemistry, Holy Cross College delivered the Welcome Address. The valedictory Address was given by Dr. P. Kumar, Assistant Professor, Department of Animal Health and Management, Alagappa University, Karaikudi. The following prize winners were awarded by the chief guest 1st Place – Mr.S. Sanjay Daniel & Mr.S.H. Mohamed Aashik Sarif – Srinivasan College of Arts and Science, Perambalur, 2nd Place – Mr.C. Logesh, Ms.J. Loume Joe Lefenciya & Mr. A.Baskar – St.Joseph College, Tiruchirappalli, 3rd Place – Mr.S.Janakan – Thanthai Periyar Government Arts College Tiruchirappalli 3rd Place- Ms.J. Harini, Ms. M.Pushpa Therese & Mr. R. Rajasri Gayathri. The session was ended with vote of thanks by Dr.S. Jenny Angel, Assistant Professor, Department of Biochemistry, Holy cross college, Trichy followed by the National Anthem.





The PG Department of Biochemistry and DMLT of Holy Cross College organized **100 hours comprehensive free Medical camp for school students and village people for five days from 13th to 16th February 2023 and 22nd February 2023** from 10.00 am to 4.00 p.m. The health checkup programme started at around 10.00 a.m along with faculty members and students. The College arranged blood grouping analysis and screening the Hemoglobin level, which were useful for many villagers and school students. Students of Biochemistry, talked to people regarding awareness on Anemia and its types, causes and complications of Anemia, Diet for anaemic patients, Government scheme to avoid anemia, menstrual hygiene. It helps them to get sensitized about health issues, apart from this it also makes students aware of their health issues. It is also a way of informing about the necessity of adequate nutritious food, clean, iron rich food, danger and the risk assessment. Patients were counselled regarding drug usage and dietary intake to be followed to improve haemoglobin levels. A Total of 438 students and village people benefited from this programme. The success of the programme in providing basic health care facilities for the needy people was evident in the cooperation and support from all the stakeholders till the end of the event. SCHEDULE OF THE MEDICAL CAMP Day I: 13.2.2023 Thaluthalapatti. Day II: 14.2.2023 Kariyamanikkam Day III:15.2.2023: ThudaiyurDay IV: 16.2.2023 TiruvasiDay V: 22.2.2023 C.Ayyampalayam.

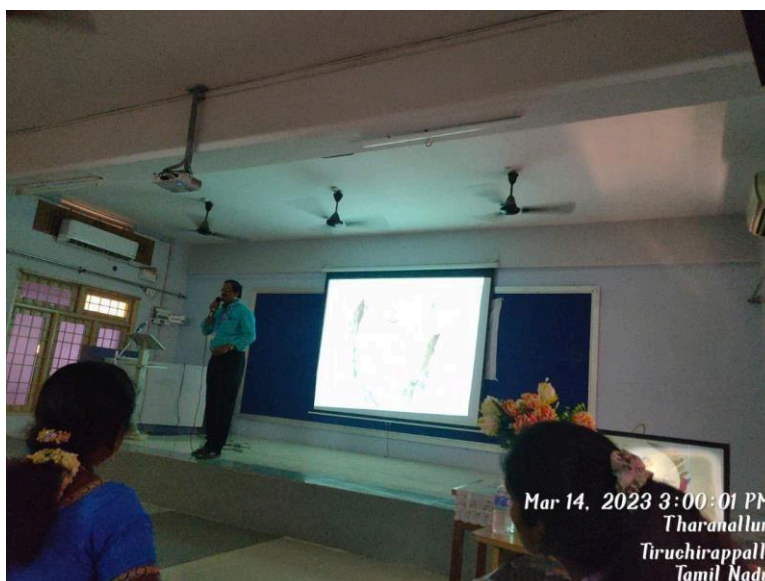




In commemoration of National Science Day the PG Department of Biochemistry IIC organized “Innovative Science Experiment” Contest on **9th March 2023** from 10.00 am to 11.30 am in NBH3. The lecture started with a prayer service followed by a welcome address and minutes reading by the IIC secretary and president. The contest was conducted to encourage the development of the new methodology and experiments from our students within the department of biochemistry which can become the foundation for creating the new experiments. There were totally 10 teams and each team was given a particular timing of 5-10 minutes to do their experiments. This session was an IIC competition where a group of students presented their own innovative science experiments and explained their ideas to the guest. The competition was evaluated by Ms. Jasmine Banu, Assistant Professor, PG and Research department of physics, Holy Cross College. She scrutinized their innovative experiments, interrogated each team about their way of implementation and also suggested advice to the students. Her advice was very much useful and it inspired the students to upgrade themselves to the next level. Finally, the guests evaluated their innovative science experiments and declared the results. The session ended with Vote of thanks.



The PG Department of Biochemistry's KREB'S CLUB organized a special lecture on **“Intellectual Property Rights”** on **14th March 2023** from 2.30 pm to 3.30 pm in Shanthi hall. The event began with a prayer session, then the head of department welcomed the chief guest by honouring him with a memento. The association president read the minutes, and a welcome address was given by the association secretary. The Guest speaker for this session was **Dr. M. Manickavasagam**, Assistant Professor, Department of Biotechnology, Bharathidasan University. During the presentation, the resource person covered important topics such as patent, Legislations covering IPR in India, Copyright, Designs, Trademarks Patenting rights, how to patent our product, Royal-T. Totally 110 students and 9 faculty were benefited by this programme. It was an engaging and lively session. The session ended with a vote of thanks by the Association Vice President.





The PG Department of Biochemistry Association organized the valedictory function of Kreb's Club on **15th March 2023**. An intra-departmental Recipe competition on "Millets for Healthy Life" was conducted for all the UG and PG students of Biochemistry. This competition was held in commemoration of International Millet Year-2023 to create awareness about the nutritional aspects of millet among the young generation. The programme started with the prayer service. A Total of 11 teams participated in this competition and the students displayed different recipes prepared with millets along with its nutritional value. Different dishes like Ragi Semiya, Ragi upma, Ragi Payasam, Ragi Adai, Ragi Halwa. Pearl millet and finger millet Laddu, Millet Health Mix and Millet cake were prepared by the students. Dr. A. K. Umera Begam appreciated the prize winners Ist Prize- Humulin J.R of II UG Biochemistry, 2nd prize – Abirami and Chandana III UG Biochemistry and 3rd prize- Harinee and Mowlina III UG Biochemistry, Vasugi and Preethi of I PG Biochemistry. The Valedictory function ended with distribution of prizes to the winners.

