

Laminar Thought Flow



The Department of Biochemistry Newsletter

From the Editor's Desk

With immense pleasure, the Department of Biochemistry is releasing the eighth newsletter of the Laminar Thought Flow. The current issue of our newsletter includes student and faculty activities from January to May 2023. The department is also immensely proud to highlight the accomplishments of its students. Here are the glimpses of all the activities conducted throughout the semester.

-Dr. Aduja Naik, Asst. Prof., Department of Biochemistry

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Faculty and student activities

Visit to Igloo Dairy- Amul Milk Processing Plant

The objective of this industrial visit was to understand the process of milk and milk products processing and packaging. The visits were on 19th January 2023 for S.Y. Students and 24th January 2023 for T.Y. Students. The students were shown a documentary about 'Amul' and a short session was conducted to explain how the cooperative works. The students were then taken to the various sections of the dairy such as collection point, processing and packaging, chilling and storage, dispatch and testing laboratory. All the processes were explained by the respective staff of the sections.



Talk on Nutraceuticals

A guest lecture was organised for the students of the Nutraceutical Product Development Course on 16th February 2023 from 2.15 to 3.15 P.M. in the upper auditorium. The speaker was Mr. Manzoor Butt, owner of Team 24, a food and nutraceutical company. Mr. Butt gave an inspirational talk describing his journey in the field of food technology and later discussed about the products and processes involved in the food industry. He had brought along with him several innovative products of team 24 and the students tried some of them. The session was very informative and inspirational.



Anaemia talk

The department of Biochemistry organised an awareness programme on anemia on 22nd February 2023 at 1.30 pm. The guest speaker for the day was Dr. Daksha Shirodkar Munj, Pathology Dept., Goa Medical College. She spoke about the different types of anemia, its causes, diagnosis and treatment. Dr. Munj also prepared histological samples of anemia patients and allowed students to observe them at the CRL lab. This was followed by a haemoglobin test for anemia which was conducted by the student volunteers for all the participants at the biochemistry lab and the sessions was concluded at 3.30 pm.



National Conference and Poster Presentation

The national level conference ‘Emerging trends in Science and Technology: A Multidisciplinary Approach’ organised by St. Xavier’s College, Mapusa on 3rd and 4th March 2023 was attended by 14 T.Y. students and Dr. Aduja Naik. Poster presentation was done by 8 students and Dr. Aduja Naik on the topic “Value Addition and Bioprocessing of Brewers Spent Grain” at the conference.



Hands-on Training Workshop on Molecular Biology Techniques (DHE funded)

The departments of Biochemistry, Biotechnology, and Botany jointly organized a 6-Day Hands-on Training Workshop on Molecular Biology Techniques from 9th to 15th March 2023. This workshop was funded by the Directorate of Higher Education (DHE), Government of Goa. Ms. Sarah Mesquita, Asst. Prof., Department of Biochemistry was the coordinator of the workshop. The students were trained on various molecular biology techniques - DNA, RNA extraction & estimation, Agarose and Polyacrylamide gel electrophoresis, Southern Blotting, etc. Along with the practical training, students also had lecture sessions by various faculty that explained the concepts of the techniques from their experience. They also had the opportunity to interact with faculty members from BITS that are using several techniques in their day-to-day research activities. Ms. Sarah Mesquita, Dr. Supriya Khorjuvenkar and Dr. Aduja Naik, Asst. Prof., Department of Biochemistry conducted theory lectures and practical sessions for the students during the workshop.



Mangalore Trip and Bioanalysis 2023

The department of Biochemistry organised a trip to St. Aloysius College, Mangalore from 29th March to 1st April 2023. 22 students from F.Y., S.Y. and T.Y. attended the workshop “Bioanalysis” from 30th to 31st March 2023 organised by Department of Post Graduate Studies and Research in Biochemistry, St. Aloysius College, Mangalore, where they had a hand-on training of techniques such as Polymerase Chain Reaction (PCR), Enzyme linked Immunosorbent Assay (ELISA) and Bioinformatics. It was a good experience for the students to interact with the ex-students of the department (currently pursuing M.Sc. at St. Aloysius College) during this visit.



“Know your Millets” – A Poster Exhibition

The department of Biochemistry organised an awareness programme on millets “Know your millets – A poster Exhibition” on 15th April 2023 from 10.30 A.M. to 12.30 P.M. 8 posters were displayed which gave information about major, minor and pseudomillets to commemorate the United Nations Year of Millets 2023 (IYM2023). An online quiz was conducted at the end of exhibition and prizes were given to visitors who scored above 7/10.



Synergy (Biochemistry Club) Activities

Movie screening

Movie screening of the movie 'Honey, I shrunk the kids' was done as a club activity on 13th January 2023. The movie screening activity was attended by 20 people and the movie caught the eyes of the audience



Poster Competition- World Cancer Day

Poster making competition on the theme- World Cancer Day was conducted by the departmental club Synergy of biochemistry for all its members. Students had to prepare individual posters on the given theme on 10th February 2023. Each student was given an A4 size sheet for the poster making. Students were allowed to get their own stationary for better results. At the end, students came up with great posters. Poster making was done using the particular theme because 4th February is World Cancer Day.

Quiz Competition

On the occasion of Women's Day, a quiz was conducted which contained questions on the contribution of women in science and other fields on 10th March 2023. The departmental club Synergy of Biochemistry conducted a club activity wherein a quiz on the contribution of women in science was taken. The quiz had 2 rounds. Questions about women's day and their immense contribution in science and other important fields were asked to the participants.



Microscopic Photography Competition

The departmental club Synergy of biochemistry conducted a club activity of microscopic photography of non-living thing under microscope on 24th February 2023. Students had to take any non-living specimen of their choice and observe under the microscope. After focusing, the students had to take a clear photograph of what they observed.

Farewell Party

The departmental club Synergy of biochemistry conducted farewell for third years having the theme as black tie. Everyone followed the theme and took part in the party enthusiastically. The function was held in the AV room on the afternoon of 21st April 2023. The farewell had lots of fun things that the third years could entertain themselves with like a group dance by 5 second years, duo singing by the first years, throwing the cups game and few fun dares to do. It was altogether a memorable day to all the third years.

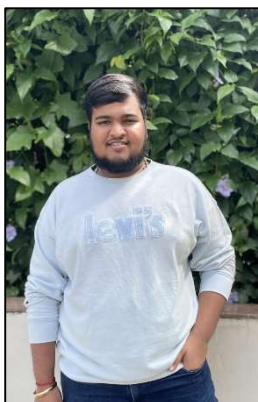


Students Achievements

Students and Sports Council Members



Ms. Vajra
Bandodkar,
Chairperson,
Students Council



Mr. Mayank
Prabhudesai,
Advisor,
Students Council



Mr. Errol
Rodrigues,
Executive Member,
Students Council



Mr. Valyon
Fernandes,
Chairperson,
Sports Council

Achievements of Students Council:

- Organized events like **majya maar 2023** and the mega intercollege event '**TATHASTU 2k23**'
- Won various intercollegiate events like **Anantara 2023** and **Plateaunica 2023**

Achievements of Students Council:

- Organized Intercollegiate event "**Tiger Olympics**" **2023** and "**Tiger fiesta**" **2023** intra-collegiate event
- Achievement in inter collegiate events: 4 gold, 4 silver medals and 7 bronze medals

Zymogenix Runner-up award

The students of F.Y.BSc Biochemistry participated in the Zymogenix event - an inter collegiate state level competitive organized by the Post Graduate department of Food Technology of the Carmel College of Arts, Science and Commerce, Nuvem. The students participated in various competitions under this event and won the 1st, 2nd and 3rd places for all the competitions that they were a part of. Below mentioned are the winners of the respective competitions:

- Ms Vanya Gracias - 1st place for Snack-opedia & 2nd place for Pigmentoria.
- Mr. Geraldo da Silva & Mr. Horrace Mascarenhas - 2nd place for Whiz the Quiz.
- Ms. Kanishka Naik - 3rd place for Regard before Discard.
- Ms. Rainha Pereira, Ms. Vanya Gracias, Ms. Kanishka Naik, Ms. Namita Velip, Ms. Stancy Tom, Mr. Horrace Mascarenhas, Mr. Sanman Bandekar and Mr. Geraldo da Silva - 3rd place for The Gourmet Walk.
- Mr. Sanman Bandekar - 1st place for Mr. Zymogenix 2023.
- Ms. Stancy Tom - 1st place for Miss Zymogenix 2023.

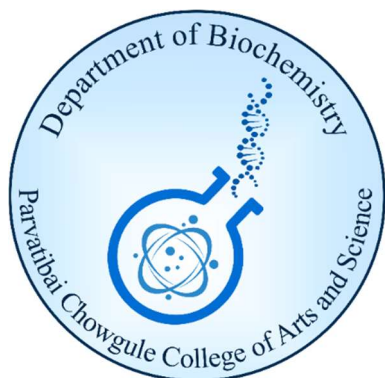
Their talents, efforts and performance were appreciated by successfully winning the Overall Runner's Up trophy and being awarded with Certificates. The F.Y's were accompanied by their teacher Ms. Anita Parsekar.



Faculty Achievements

Book Chapter:

Prabhu Khorjuvenkar, S., Desai, S., Harikumar, N and Kuncolienkar, V. (2023) Characterization of lycopene extracted from kitchen waste and it's potential application in the food industry. In Ed. Kirankumar, S. V, Biospectrum. Garden City Publishing House (Accepted).



Editor:

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Contributions by:

The students and teachers featured in this edition.

DISCLAIMER

The opinions/views appearing herein are not necessarily of the principal or the management.