

# DEPARTMENT OF ZOOLOGY

## SUBJECT SOCIETY – SYNAPSES

Jan – July 2025

***Convenor, Synapses: Dr. Renu Solanki***

***Teacher In-Charge: Dr. Shailly Anand***

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**29<sup>th</sup> January 2025:** The Fresher's Event “GLITZ AND GLAM’ 25” was a grand welcome for the new batch of students. The event aimed to foster interaction between seniors and juniors, introduce freshers to the college culture, and provide them with an opportunity to showcase their talents. The program was meticulously planned by the Synapses and faculty members to ensure an engaging and enjoyable experience for everyone. *(Teacher Coordinators: Dr. Guddu Kumar, Dr. Rohit Jamwal)*

**18<sup>th</sup> February 2025:** An Educational Visit to Yakult Danone India Pvt. Ltd. in Sonipat, Haryana. The visit was attended by students from the Life Sciences and Zoology courses, providing them with an invaluable opportunity to gain insights into the significance of probiotics and the production process of Yakult. The visit was structured into two distinct components: a presentation session and a tour of the production facility. During the presentation, the history of Yakult was elucidated, and also emphasized on the health benefits of probiotics, highlighting their role in enhancing gut health, bolstering immunity, and facilitating digestion. The production process of Yakult was explained during the tour of the plant. Manufacturing process was explained alongwith fermentation process and storage of products.

**24<sup>th</sup> February 2025:** A Special Orientation Session was conducted by Dr. Shailly Anand, Teacher In-Charge, Department of Zoology to provide Semester VI students with a clear understanding of their options for the fourth year under the NEP 2020 framework. The session focused on the structure of undergraduate programs, specialization choices, and key learning outcomes for students progressing to Semesters VII and VIII. This Orientation session provided students with a comprehensive overview of their academic choices and specialization tracks. By following the outlined process, students can make informed decisions about their fourth-year study path, ensuring alignment with their academic and professional goals. Students discussed their issues in the session and also sought guidance for their future trajectory. *(Teacher Coordinator: Dr. Shailly Anand)*

**November 2024 and February 2025:** A Skill Enrichment Program was organized on “Immunological techniques based on antigen antibody interactions” for the students of B.Sc (H) Zoology, Sem V and B.Sc. Life Sciences, Sem VI. *(Teacher Coordinators and Resource Persons: Dr. Anita Gulati, Dr. Renu Solanki)* during which the following experiments and lectures were covered:

- **Experiment 1:** Ouchterlony Double Diffusion for Antigen - Antibody patterns
- **Experiment 2:** Radial Immuno Diffusion
- **Experiment 3:** Immunoelectrophoresis
- **Experiment 4:** Sandwich ELISA
- **Lecture 1:** Basics of Immunoprecipitation (Dr. Anita Gulati)
- **Lecture 2:** Principles of Immunodiffusion and its significance (Dr. Anita Gulati)
- **Lecture 3:** Immuno-electrophoresis (Dr. Renu Solanki)
- **Lecture 4:** Enzyme Linked Immunosorbent Assay (ELISA): Basics, types and Applications by Dr. Aparna Sharma, Acharya Narendra Dev College, University of Delhi

**22<sup>nd</sup> March 2025:** The Annual Departmental Fest – **ZOOFESTEA’25** was organized wherein 4 events including Inter-College Debate Competition, Autobiography (Autobiography as a scientific instrument), Zoomania (Biology Quiz Game) and Safari Seekers (Treasure Hunt) were held. The students from our college and different colleges participated in the events and won prizes in the events.

**28<sup>th</sup> March 2025:** A **Sanitary Napkin Distribution Drive-cum-Hygiene Information** was organized in association with Right Side Story, in partnership with P&G (Whisper, Gillette & Venus India) for the girl students of the college. The drive was set near the canteen area of the campus which receives the maximum footfall of students. While napkins/ goodies were distributed to girls, a general hygiene information was also conveyed to students. **Mr. Kshitij** and **Ms. Meenal** from Right Side Story coordinated the event. (*Teacher Coordinator: Dr. Shailly Anand*)

**1<sup>st</sup> April 2025:** An **International Interactive Session** titled “*From Innate Immunity to Autoimmunity: A Journey of a Lifetime*” was organized as a collaborative effort by Synapses and Kalpavriksha, the Zoological and Botanical Societies of the college, held under the aegis of the Science Foundation and DBT Star College Program (Coordinators: Dr. Renu Solanki & Dr. Rajkumari S. Devi). The session was graced by **Prof. Uday Kishore**, a renowned immunologist with specialization in innate immunity and autoimmunity. A Fellow of FHEA, FRSB, and FRCPath, Prof. Kishore is currently associated as a professor and researcher with *UAE University* and the *University of Oxford*. He is celebrated for his pioneering contributions in immune regulation and disease pathogenesis and is the recipient of several prestigious research awards. During the session, Prof. Kishore shared his journey in the field of immunology, shedding light on the intricate transition from innate immunity to autoimmune conditions. His talk provided deep insights into the mechanisms of immune responses, the challenges in autoimmune disease research, and emerging therapeutic strategies. The lecture was followed by an engaging Q&A session where students and faculty actively interacted with the speaker.