

GUEST LECTURES

1.Webinar

“Glycoproteins -Their role in Cellular Physiology and Biochemistry”

9th May, 2020

In order to effectively utilize time and refresh the knowledge during Covid-19 pandemic time, Department of Biochemistry, Bhavan's Vivekananda College, Sainikpuri, organized a webinar on 9-5-2020 from 4.00-5.00 pm. The speaker of the webinar was Dr. NadimpalliSivaKumar- Senior Professor and Director of International Affairs, Biochemistry Department, School of life Sciences, University of Hyderabad. The Topic for the webinar was 'Glycoproteins- Their role in Cellular Physiology and Biochemistry'.

The webinar started with the welcome address by Dr. A. Sai Padma, HOD, Department of Biochemistry. She welcomed the speaker of the webinar Dr. NadimpalliSivaKumar, Principal Prof.Y.Ashok and all the participants. With the wishes from Prof. Y.Ashok for a successful webinar the session was started by prof. N. Sivakumar. He detailed about the role of glycoproteins and their biosynthesis in cells. He also emphasized on the lysosomal hydrolases and their specific transport to lysosomes. Further, the diseases associated with the lysosomal hydrolases, and possible ways of treatments were also explained well. An interactive session with the speaker was also arranged at the end of the webinar for queries from the participants. The delegates of the webinar included faculty and students from various universities and colleges in Telangana, Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Maharashtra, Pondicherry, Punjab and West Bengal. A total of 177 delegates attended the webinar, which was successfully completed with no technical flaws. The participants gave a good feed back at the end of the session about the seminar topic, effective delivery by the speaker and smooth conduct of webinar.

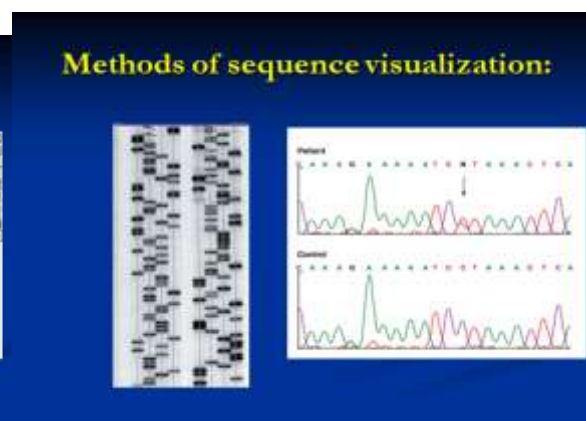
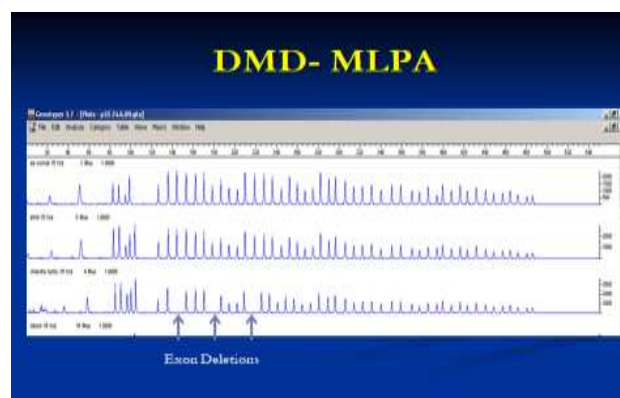
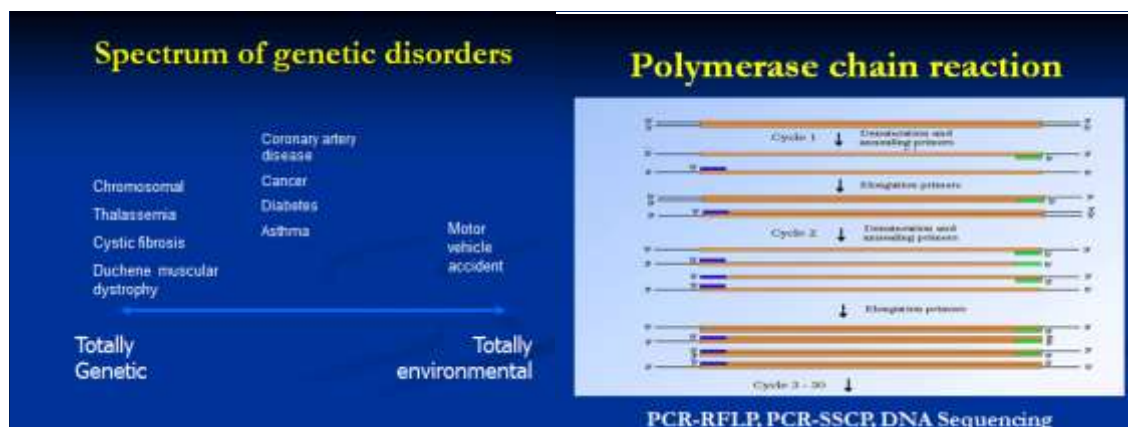
2. Webinar on

“Molecular Diagnostics and Modern Medicine”

21st May, 2020

Department of Biochemistry has organized second webinar on the topic “Molecular Diagnostics and Modern Medicine” on 21st May, 2020 at 11:00am to 12:00noon using Zoom as an online platform. The guest speaker of the day was Dr. Ashwin Dalal, Head, Diagnostic Division, Centre for DNA Finger printing and Diagnostics (CDFD), Hyderabad, Telangana, India. The webinar started with welcome address by Dr. A. Sai Padma, Head, department of Biochemistry followed by Prof. Y. Ashok, Principal inviting the speaker and the audience. The main aim of this lecture was to introduce the participants to advanced and latest diagnostic methods available to screen genetic defects at various stages and possible genetic counselling. Session started with introduction to basic concepts of human cell and different types of genetic disorders. The techniques covered in the webinar were PCR, and PCR based methods like MLPA, PCR-RFLP, ARMS-PCR along with antigen-antibody interactions by DOT-BLOT. Advanced screening methods like Sanger’s sequencing, Microarray and NGS (Next Generation Sequencing) were addressed in correlation to genetic disorders. The webinar received a huge response with 550 participants including faculty members and students from various institutions. A positive feedback was obtained from the participants and e-certificates were dispatched to the attendees.





3. International Webinar on “Drug Development” 19th January, 2021

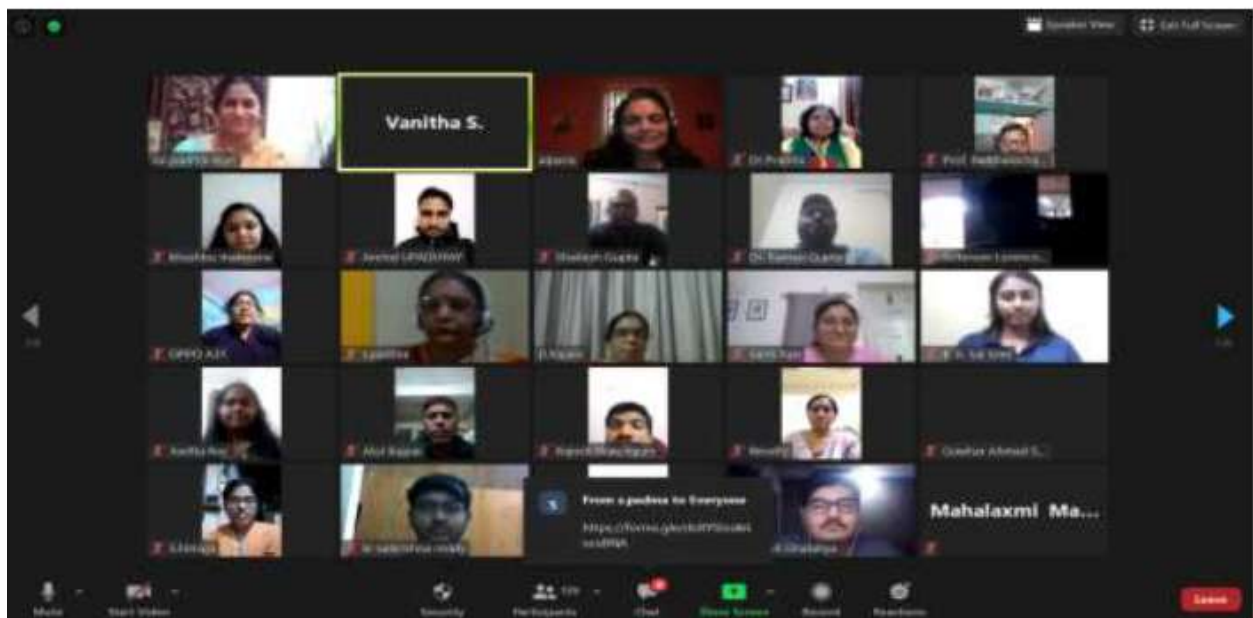
An international webinar on “Drug Development” was organized online by the department of Biochemistry on 19th January, 2021 under DBT -Star College Scheme. The resource person, Dr. Alpana Gupta, Associate Director, CMC Regulatory affairs (Biologics), BoehringerIngelheim Pharmaceuticals, Inc. Ridgefield, Connecticut, USA delivered the talk on Drug Development.

Dr. Alpana started her lecture with an introduction to drug development and explained the various key elements in drug discovery. This included the thorough knowledge of the identification of target molecules, their mechanism of action, scientific hypothesis followed by identifying suitable drugs, optimization and indepth profiling of the compounds. She also emphasized the need for establishing a connection between biochemical mechanism and pathogenesis of disease. Dr. Alpana gave an insight into the road map from discovery to development of lead molecules. She also explained the process for Biologics development that

includes choice of host, cell line creation, fermentation process, formulation and device development.

Dr. Alpana also discussed about the phases in clinical development of drugs and said that the process would require about 5-7 yrs for completion. She also gave an insight into the future of drug development by using nanotechnology and its importance for digitalized medicine and personalized medicine and cell therapy. There were 170 participants who joined the webinar and gave a good feedback about the speaker and the topic which was apt in this time of pandemic.







4. “Dietetics Day – 2021” Celebrations

11th January, 2021

(Under DBT-Star college scheme)

The Department of Biochemistry, Bhavan’s Vivekananda College, Sainikpuri, celebrated Dietetics Day-2021 to create awareness among students and other community to highlight the importance of dietetics and nutrition in the maintenance of health and in the prevention and treatment of diseases.

The first lecture titled "Significance of Nutrition and Diet management in adolescent and young adults" was delivered by Prof. B. R. Shamanna, Professor, School of Medical Sciences, University of Hyderabad, Hyderabad. In his lecture, Dr. Shamanna highlighted the current scenario of nutrition related health problems and stressed on the urgent requirement for nutritionists and dietitians to find solutions for the nutritional deficiencies. He also gave an overview of the various nutritional programs initiated by Government of India and emphasized on the importance of community nutrition.

The second lecture titled “Fad diets. Do they work?” was delivered by Mrs. Sunitha Premalatha, Chief Dietitian, Yashoda Hospitals, Somajiguda, Hyderabad. Mrs. Sunitha stressed upon the maintenance of calorie balance, increased portion sizes of different food items, life style modifications along with continuation of regular physical activity. Mrs. Sunitha spoke extensively on the pros and cons of formula diets, commercial weight loss programs, intermittent

fasting etc. and how an ideal weight of a person can be achieved. The lecture was very informative and apt for the present audience group.

As part of the Dietetics Day celebrations, “**Nutrifest**”, a cooking competition was also organized for students below 25 years. The competition received 56 entries from various colleges. Students have actively participated in this contest making simple and healthy recipes adding a note on the nutritional significance of the recipe. Winners were given appreciation certificates after the webinar.

