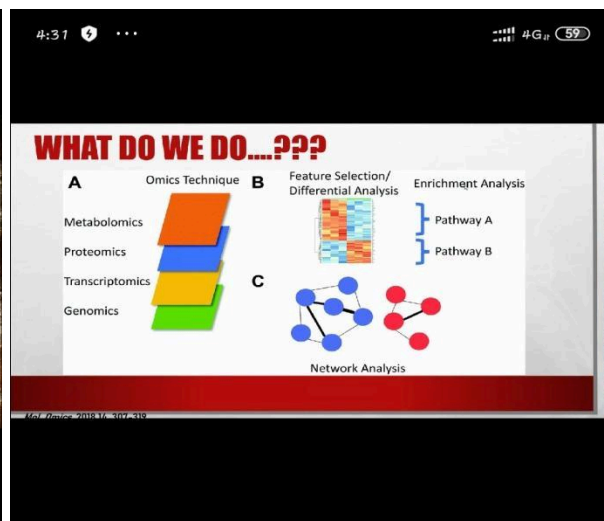
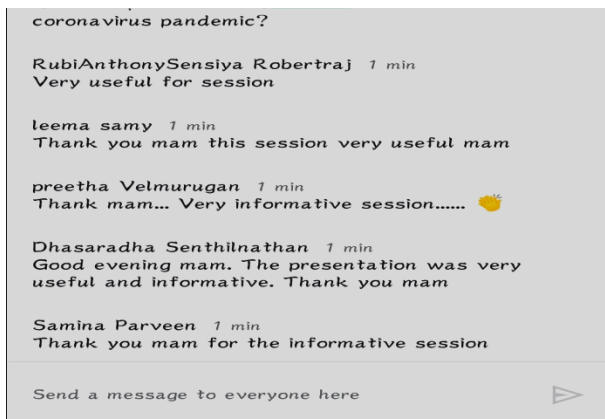
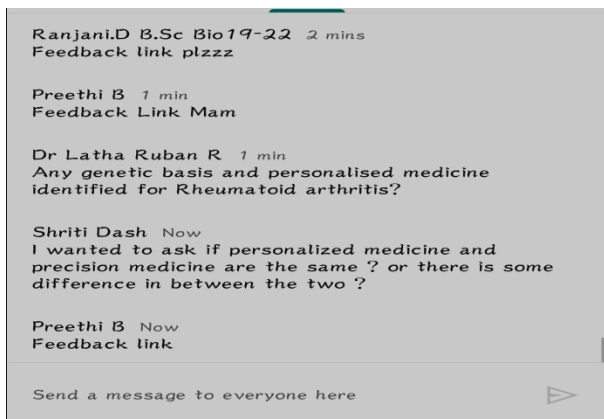


ASSOCIATION REPORT (2020 – 2021)

The PG department of Biochemistry on 16th May 2020 organized an online quiz on “General Awareness of COVID’19” to create awareness among the society regarding COVID’19. A total of 1800 persons participated in this event and an online e-certificate was issued to all of them.

On 17th June 2020 a webinar was organized on "Precision Medicine: A New Paradigm" through Google Meet platform. The host of the session was **Dr. G. Leema MSc., M.Phil., Ph.D Scientist in the Department of Molecular Genetics** in Prof M. Viswanathan Diabetes Research Centre (WHO research centre for Research, training and education in Diabetes) at Chennai. The speaker discussed the advantage of precision medicine. It is a therapeutic intervention to the individual molecular features of the patient or disease based on phenotypic biomarkers. Omics technique, pharmacogenomics that is the effect of a single gene on drug response was also discussed. Biomarkers are naturally occurring molecule genes and can be used as markers for radiotherapy response in breast cancer was explained in a simple and effective way. About 174 participants from other districts, states and countries attended the webinar. The feedback link was given in the chat box at the end of the session and e-certificates were given to all the participants.





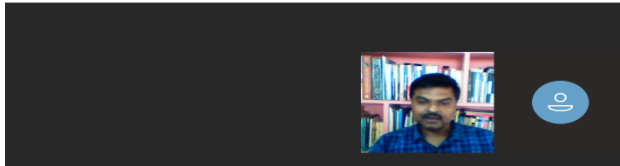
On 26th June 2020 a Webinar on "Nuances of Scientific Methodology" was organized through Microsoft Teams platform. This webinar was organized in collaboration with the Wings Academy of Skill Training, Chennai. The host of the session was **Dr. Karthik Mohan**, Associate Professor, Department of Biochemistry, E.G.S. Pillay Arts and Science College, Nagapattinam. A total of 100 participants from other districts and states actively attended the webinar. The event started with a prayer service followed by a welcome address by Dr. D. Prema, Assistant Professor of Biochemistry department. The resource person discussed various terms like science, project, research, and thesis etc., An in-depth knowledge of identifying the problem to carry out the research was explained in a precise and clear manner. The difference in terminology like discovery, invention and various aspects of Incremental and radical innovation was also explained. One view of science and technology and classical phases of scientific methodology was discussed in detail.

Types of Research – view point of application

Nuances of Scientific Methodology



Dr. Karthik Mohan
PG & Research Department of
Biochemistry,
E.G.S. Pillay Arts & Science College,
Nagapattinam
9944113998 / kmohan108@gmail.com



■ Pure, basic, or fundamental research

- Driven by the **scientist's curiosity** or interest in a scientific question.
- Involves development and testing theories and hypothesis that are intellectually challenging to the researcher but may or may not have practical application at the present time or in the future.
- ...Frequently involve very abstract and specialized concepts

■ Applied research

- Designed to **solve practical problems** of the real world, rather than to acquire knowledge for knowledge's sake.
- Often involves the use of some technology in the development of new processes or systems.
- Frequently linked to R&D



Nature of Scientific Methods

The "scientific method" attempts to minimize the influence of the researchers' bias on the outcome of an experiment.

Top 5 Most INTELLIGENT ANIMALS On Earth

Which one is the Most intelligent?

Meeting chat

- A ASALYALI (Guest) 5:11 PM
Monkey
- MS MARGRET SHELTOND (G... 5:11 PM
Dog
- E Bakiya (Guest) 5:11 PM
Dog
- Rajeshwari (Guest) joined the meeting.
- MH m. harshee (Guest) 5:11 PM
Elephant
- B Blessi (Guest) 5:11 PM
Elephant

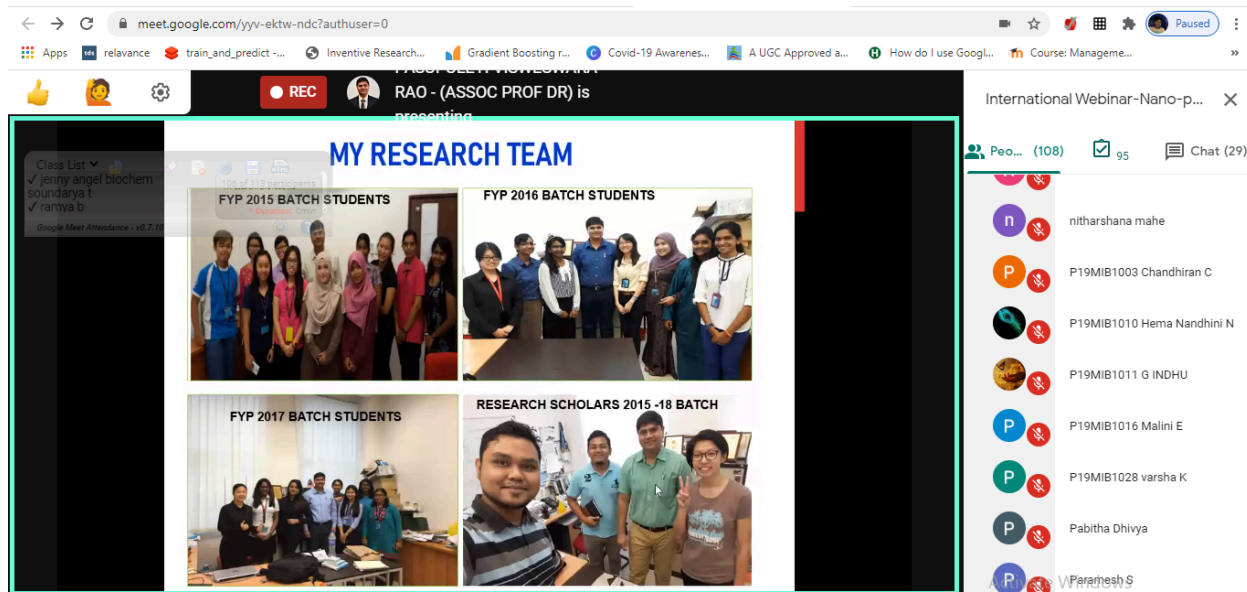
Type a new message

On **08th August 2020** an International webinar on "**Biological Synthesis of Nanoparticles and their Biochemical Applications in Metabolic Diseases**" was organized through Google meet platform. The resource person of the webinar was **Dr. Pasupuleti Visweswara Rao**, Associate Professor & Research Coordinator, Head, Non-Communicable Diseases Research Department of Biomedical Sciences and Therapeutics, Biochemistry Division, Universiti Malaysia Sabah Kota Kinabalu, Sabah Malaysia. A total of 175 participants from other districts and states actively attended the webinar. The resource person discussed nanotechnology and nanoparticles. He also explained about various applications of nanotechnology like Electronics, Energy, Biomedicine, Environment, Food and Textile. He

mainly emphasized on biomedical application, mainly use of plant products in various diseases. The formulation of nanoparticles and characterization of biogenically synthesized nanoparticles was also discussed. He also explained the current use of nanotechnology as a portable imaging device and in tattoo and target delivery for therapeutics purpose. He also shared his research experience in biological synthesis of nanoparticles in cancer.

The screenshot shows a Google Meet interface with a presentation slide. The slide features the logos of the host's institution, Universiti Malaysia Sabah (UMS), and a local organization, HCG. The title of the presentation is "Biological synthesis of nanoparticles and their biochemical applications in Metabolic Diseases". The presenter's name and title are "Pasupuleti Visweswara Rao, PhD, Associate Professor, Faculty Research Coordinator, Head, Non-Communicable Diseases Research Niche Areas, Faculty of Medicine & Health Sciences | Universiti Malaysia Sabah". The date is "Date : 08/08/2020" and the time is "Time - 4 -5 PM IST". The contact email is "visuthebiotech@gmail.com". The meeting details panel on the right shows 89 people in the meeting.

The screenshot shows a Google Meet interface with a presentation slide illustrating the biological synthesis of nanoparticles. The diagram shows the process starting with "Metal ions" (Mⁿ⁺) and "Bio-Reducing agents" (OH⁻, HO⁻). The process involves "Reduction" to form "Reduced Gold/Silver Atoms" (M⁰), followed by "Growth" to form "Gold/Silver Nanoparticles". The diagram is attributed to "Heorak Chugh et al., 2018". The meeting details panel on the right shows 94 people in the meeting.



On 22nd October 2020 an workshop on “Molecular modelling and drug designing” was organized through Google meet platform and youtube live stream. The resource person of the workshop was **Dr. S. Shobana**, Associate Professor in the Department of Genetic Engineering in SRM institute of science and Technology, Kattankullathur, Chennai. A total of 110 participants actively attended the workshop. The resource person discussed on the basis of molecular modelling and drug designing. She also explained bioinformatics, drug discovery process, *in silico* approaches for drug designing, recognition of template and sequence alignment, virtual screening techniques, molecular docking, scoring function . She also taught molecular modelling and drug designing by “igemdock”. The session was interesting and informative as the speaker interacted with the participants during the workshop. Students were guided to access the docking website during the workshop.

Shobana S is presenting

The screenshot shows the RCSB PDB homepage. The main content area features a section titled "A Structural View of Biology" with a sub-header "October Molecule of the Month". Below this, there is a 3D molecular model of a protein structure. To the left, there is a sidebar with navigation options: Welcome, Deposit, Search, Visualize, Analyze, and Download. Below the main content, there is a section for "COVID-19 CORONAVIRUS Resources".

Workshop on molecular dock... Turn on captions Shobana S is presenting

Shobana S is presenting

The screenshot shows a "DOWNLOAD" dialog box with the following sections:

- Data Used to Display This Page**: JSON, Save, Display, XML, Save, Display, ASN1, Save, Display
- 2D Structure**: SDF, Save, Display, JSON, Save, Display, XML, Save, Display, ASN1, Save, Display
- 3D Conformer**: SDF, Save, Display, JSON, Save, Display, XML, Save, Display, ASN1, Save, Display

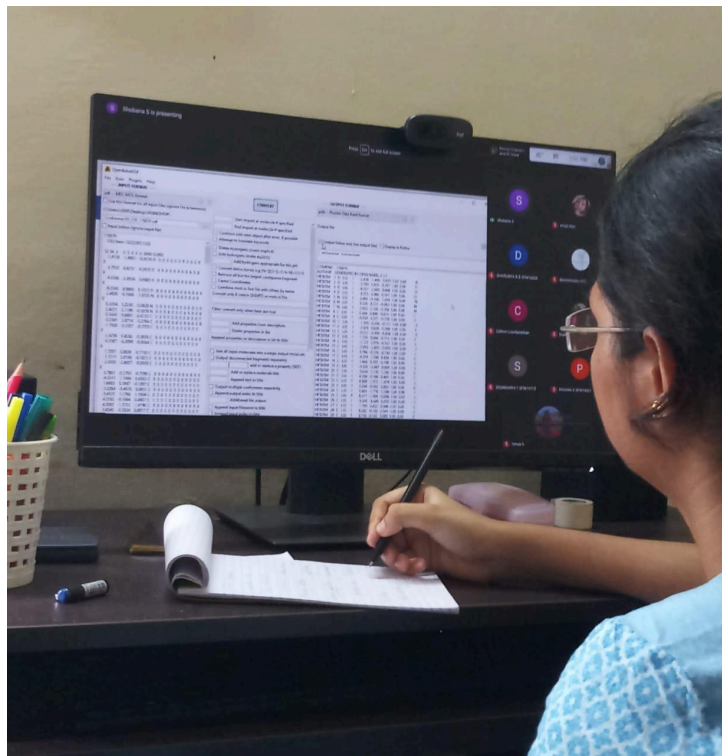
Shobana S is presenting

Samina Parveen

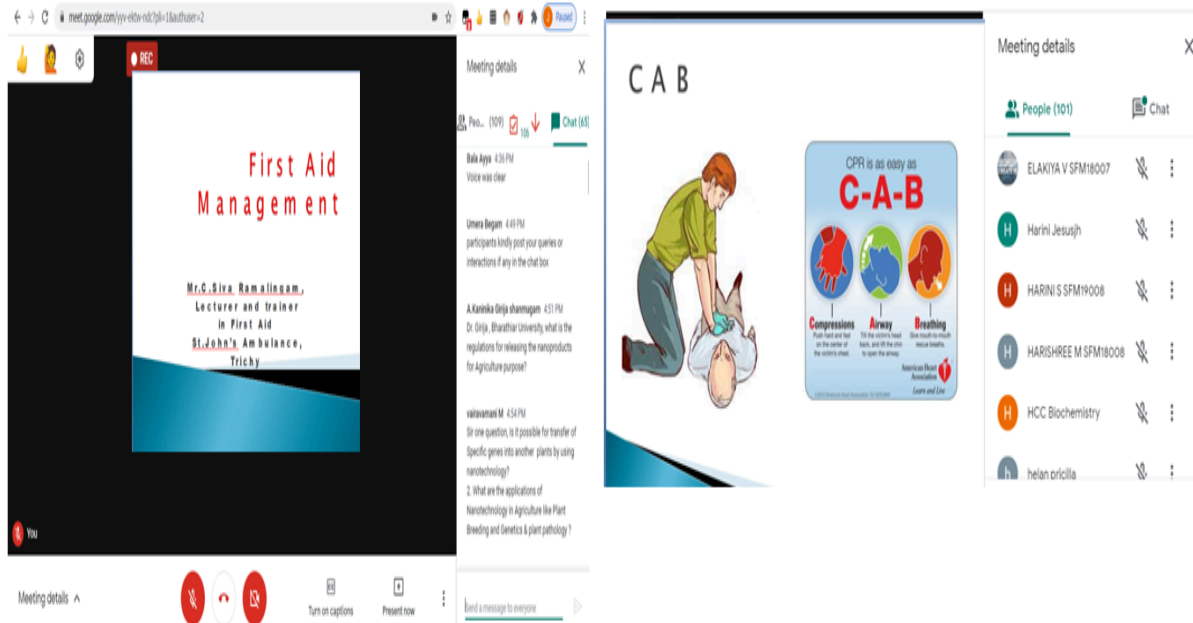
SOUNDARYA T SFM19715

Vishnu Vardhini

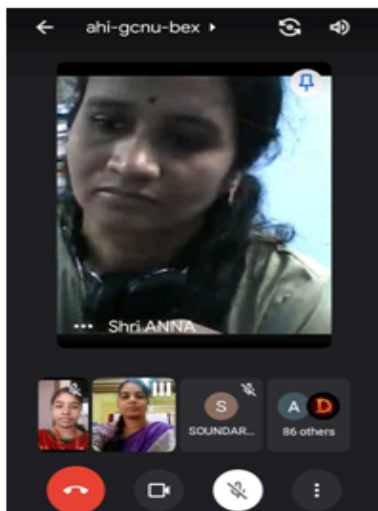
The screenshot shows a Google Meet interface with a grid of participants. The participants are arranged in a grid, with some names visible: Shobana S, Shanthi Lakshmi, and others. The time is 3:19 PM. The interface includes a top bar with the meeting title and a bottom bar with participant names and a "You" label.




On **22nd December 2020** a virtual workshop was organized on **First Aid Management**. The chief guest was **Mr. C .Siva Ramalingam**, Lecturer and trainer in First Aid St.John's Ambulance ,Trichy. 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 disease conditions. 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. The do's and don'ts of First Aid in CPR was also elaborated in detail. Students acquired knowledge about first aid for heart attack, wounds, burns, scalds and electrical injuries. He also spoke on diet and the need to do exercise in our daily life. A total of 100 students participated in the workshop including the NME students of various departments.



On 12th January 2021 a workshop on **Entrepreneurship Opportunities In Mushroom Cultivation** was organized through Google meet. The resource person was **Mrs. Mugundapriya Ganapathy**, proprietor of Sasaana International Mushroom TRK farm located at Kumbakanom. The speaker discussed various types of edible mushroom, the five steps involved in mushroom cultivation, preparation of spawn, nutritive value and about casing and after care steps. Oyster mushroom cultivation at Sesaana farm was shown and the students eagerly participated in the event. The value added products like mushroom biscuit, nuggets, ketch-up, pickle, chips etc were also explained by the speaker. Tips regarding marketing strategy and production cost were also discussed as mushroom cultivation provides an entrepreneurship opportunity for students in near future. A total of 126 students participated in the workshop.



ENTREPRENEURSHIP OPPORTUNITIES IN MUSHROOM CULTIVATION



+91 97912 01299
+91 97917 88155

SASAANA INTERNATIONAL
THANJAVUR DIST
FRESH MUSHROOMS

Nature's Hidden Treasure

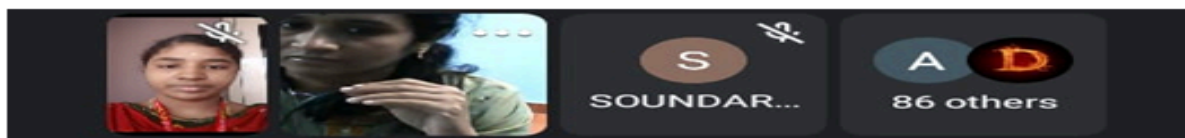
Batch No. _____
MRP _____
Date : _____

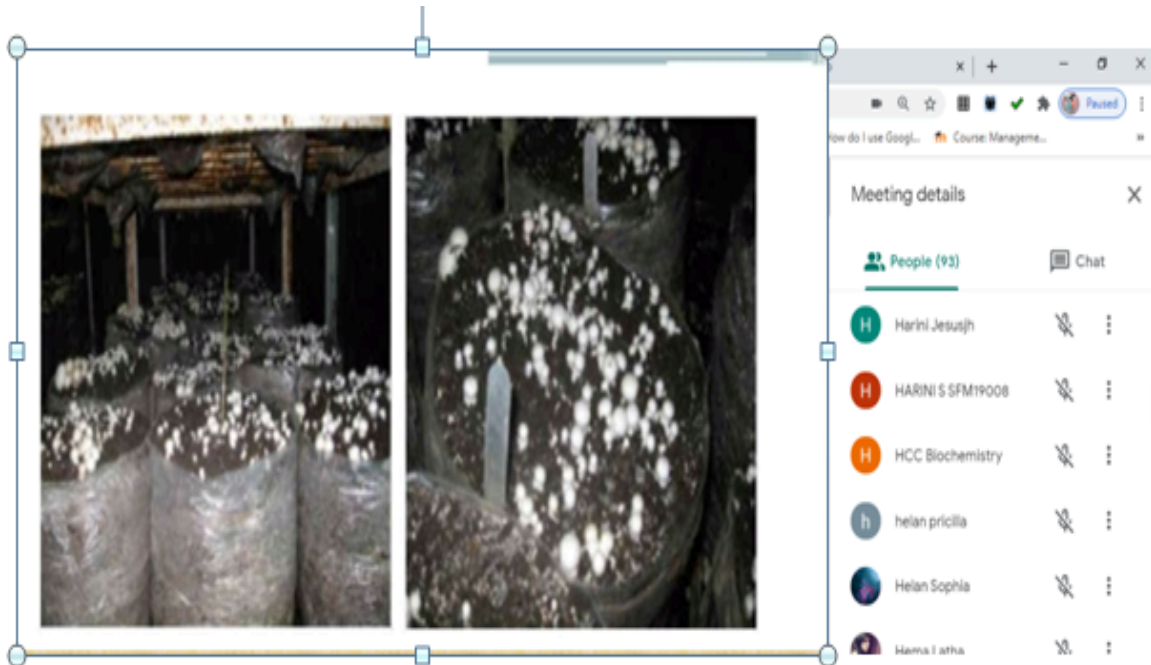
Store in Cool Place
Best for 7 days

presented by
MUGUNDAPRIYA

Chopping of paddy straw **Soaking of paddy straw**

Hot water treatment **Drain off excess water**





On 30th January 2021 the association organized a guest lecture on “**Intellectual Property Rights**” through google meet platform. The guest speaker for this session was **Dr. (Mrs). Judith Justin** Professor & Head, Department of Biomedical Instrumentation Engineering, School of Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore. The guest speaker discussed the key points like kinds of property, Intellectual property laws of India, Importance of copyright, patent, IPR licensing and Technology transfer, kinds of trademarks and how to guard the trade secrets. The lecture was focused to create awareness among students as to how to safeguard and protect their innovative work. The speaker also discussed patenting rights and how to apply for patents. Totally 126 students and 8 faculties were benefited through this lecture.

Engineering is presenting

Nature of Intellectual Property

- Creation of Human mind (Intellectual)
 - Intangible property
- Exclusive rights given by statutes
- Attended with limitations and exceptions
- Time-bound
- Territorial

meet.google.com is sharing your screen. Stop sharing Hide

REC H Catherine Skyla and 84 more 2:23 PM

HOD BMI Engineering is presenting

ANGELA LA... SHERINE RE... Shiry Angeli... SHARMILA ...

Association m... Lower hand Turn on captions

HOD BMI Engineering is presenting

Patent

- A patent is an exclusive right granted for an **invention**.
- A patent provides the patent owner with the right to decide how - or whether - the invention can be used by others.
- In exchange for this right, the patent owner makes technical information about the invention publicly available in the published patent document

meet.google.com is sharing your screen. Stop sharing Hide

REC H Meeting details X

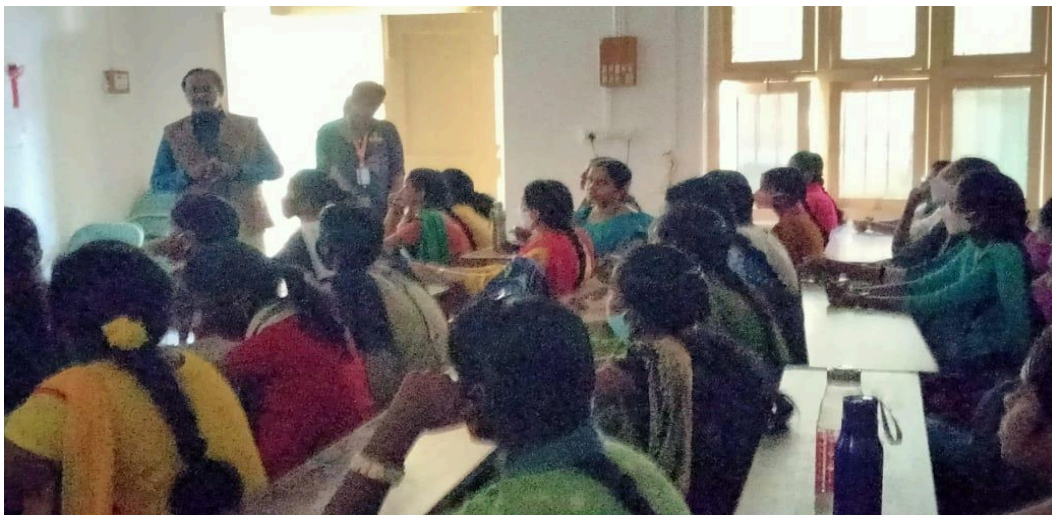
People (92) Chat

H	HARINI S SFM19008	✖	⋮
H	HCC Biochemistry	✖	⋮
h	helan pricilla	✖	⋮
	Helan Sophia	✖	⋮
	Hema Latha	✖	⋮
H	HOD BMI Engineering	🟢	⋮

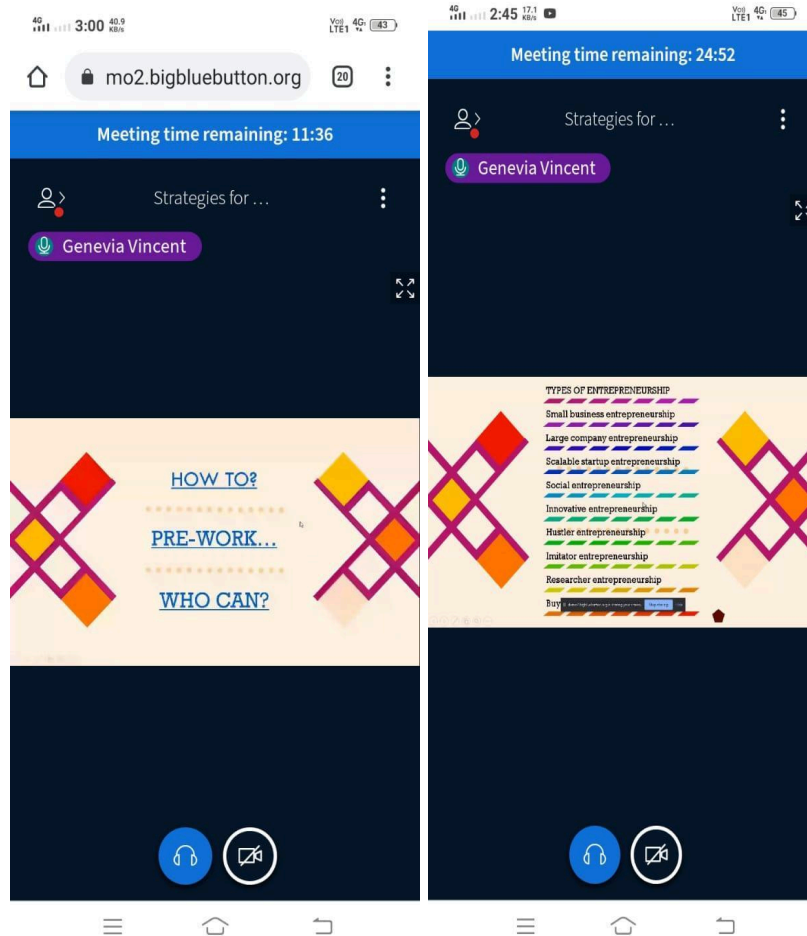
The screenshot shows a Google Meet interface. At the top, it says 'REC' and 'HOD BMI Engineering is presenting'. The main content is a slide titled 'Parts of a Patent' with a list of sections: Abstract, Background of the Invention, Summary of the Invention, Figures with brief descriptions, Detailed description or "specification" (with sub-points: Fully discloses what the invention is, How it is made?, How it can be used?), and Claim(s): sets the legal boundaries of protection (with sub-points: Independent, Dependent). To the right of the text is a thumbnail of a patent document and a technical drawing of a cylindrical component. On the right side of the screen, a 'Meeting details' panel is open, showing a list of participants: Harini Jesusjh, HARINI S SFM19008, HCC Biochemistry, helan pricilla, Helan Sophia, and Hema Latha. Each name has a mute icon and a three-dot menu icon.

On 15th February 2021 association organised a workshop on “**Grab the success in interview**”. The guest speaker for this session was **Mr.P.Mohan**, state member (HR trainer), Tamil Nadu commission for protection of child rights, Bench of civil court magistrate, Government of Tamil Nadu. The guest speaker discussed the importance of preparing a resume which is most essential for attending an interview. He emphasized that the quality of curriculum vitae will reflect the performance of the employee. The key points like Dress code and body language were also explained. Key note on types of interviews, pre interview, and interview and post interview preparation was also delivered. The lecture was focused on creating awareness among students as to how to attend the interview. Totally 45 students of final year UG and PG students along with 8 faculties were benefited through this lecture.





On 16th February 2021 The Department of Biochemistry association organised a workshop on “**Strategies for entrepreneurial Development**” through Microsoft teams platform. The guest speaker for this session was **Mrs. Genevia Vincent**, Director and CEO of Joe’s enterprise, Tiruchirappalli. The guest speaker discussed various key points like young entrepreneurship and on the types of Entrepreneurship. She also discussed the Characteristics of an entrepreneur and steps to start a business. The details of how to perform SWOT analysis of a company was explained in detail. The lecture was focused on creating awareness among students as to how to become an entrepreneur. Totally 126 students and 8 faculties benefited through this lecture.

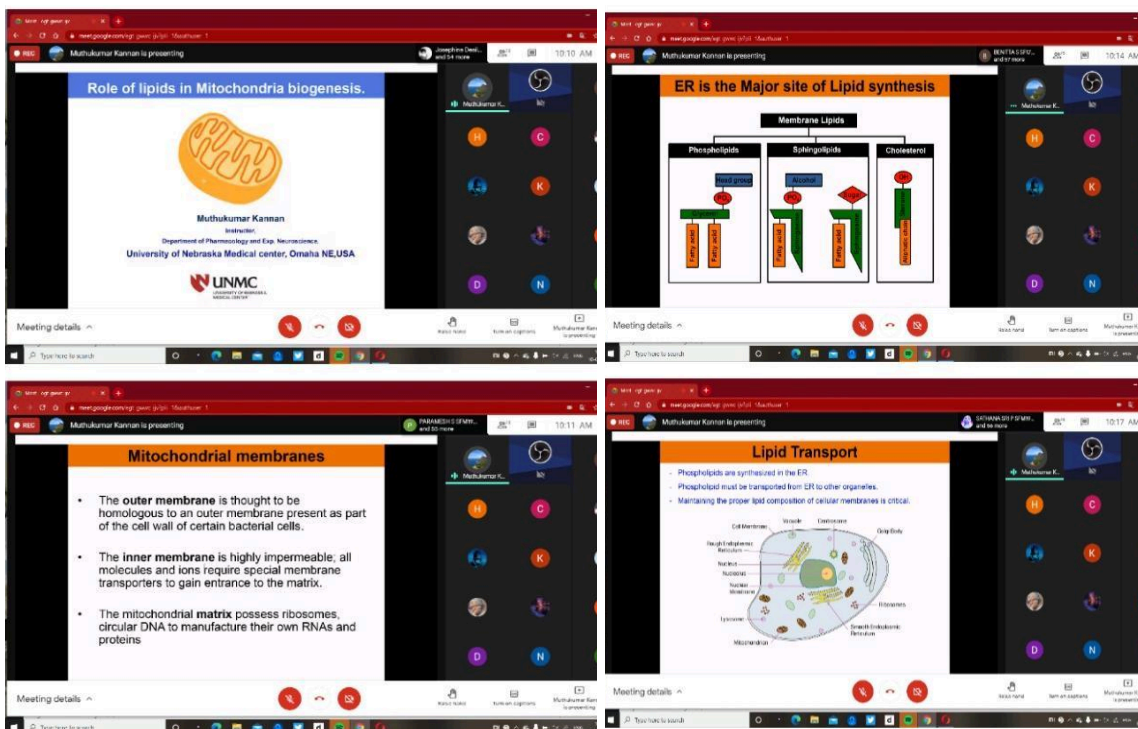


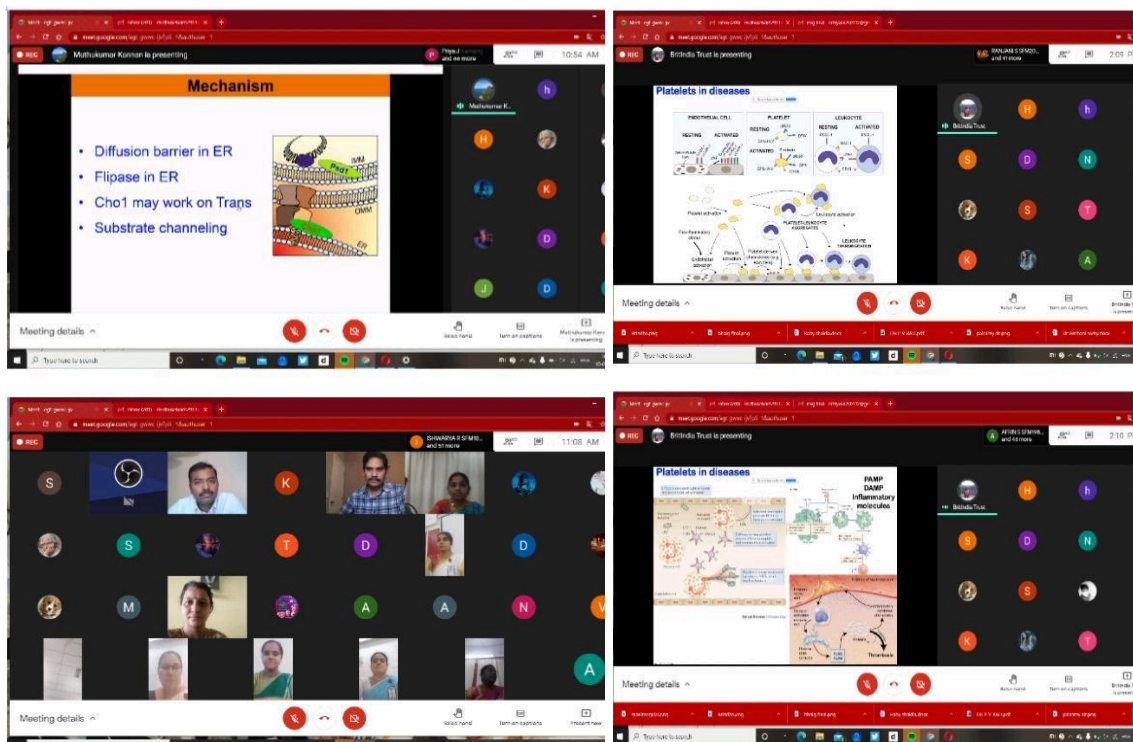
INTERNATIONAL SCIENTIST MEET

On 10th March 2021 the Department of Biochemistry organized an International Scientist Meet on “GENETICS AND HEALTH CARE” from 10.00am to 3.00 pm through Google meet platform and Youtube live streaming. The speakers of the International scientist meet were

- **Dr. Palsamy Periyasamy**, Assistant Professor and research scientist, Department of pharmacology and experimental neuroscience, University of Nebraska medical centre, USA.
- **Dr. MuthuKumar Kannan**, instructor, Department of Pharmacology and Experimental Neuroscience, College of Medicine, University of Nebraska, Medical Centre, USA.
- **Dr.Sakthivel Vaiyapuri**, Associate Professor in Cardiovascular and Venom Pharmacology, University of Reading, Whiteknights, UK.

A total of 190 participants and 8 faculties participated in the International Scientist Meet. **Dr. MuthuKumar Kannan** explained about the “ROLE OF LIPIDS IN MITOCHONDRIA BIOGENESIS”. He also explained about the mitochondrial dysfunction, cellular organelles and their functions, ER is the major site of lipid synthesis, types of lipid synthesis, lipid transport, membrane contacts sites (MCSs), PSDL is necessary to maintain DE levels in mitochondria, how do cells in mitochondria ensure there is sufficient DS in mitochondria to make PE, making PS at other locations in the ER. The speaker of the next session was **Dr. Palsamy Periyasamy**, who delivered a lecture on “EPIGENETIC REGULATION OF HIV-MEDIATED NEUROINFLAMMATION”. He also explained about the HIV, HIV tac, epigenetic regulation, microbial, HIV mediated neuroinflammation, classification of neurological manifestation of HIV, classification of neurological manifestation of HIV involving in brain, Commonly encountered neurological manifestation of HIV in clinical practice. The last session was shared by **Dr. Sakthivel Vaiyapuri**. He gave the presentation regarding the “IMPACT OF THROMBO INFLAMMATION IN HEALTH AND DISEASES”. He also explained about the platelet production, platelet activation in blood clotting, thrombus formation, affects haemostasis in mice, activation platelets via FPRs and also he gave the summary of this presentation.





“MOLFEST” – an intradepartmental competition

On 16th March 2021 an intra departmental competition – MOLFEST was conducted for III UG and II PG students at Shanthi’s Hall, Holy Cross College Tiruchirappalli. The following events were conducted –Rangoli, Dumb Charades, Quiz, Mehandi, Group singing, Solo singing, Treasure Hunt, Cooking without fire, Wealth out of waste, Your Dream job. For Rangoli, the theme “COLLEGE LIFE” was given to the participants. For Cooking without fire “FLATTENED RICE was given as base ingredient. Totally 46 students participated and exposed their talents in Molfest. The Association valediction was organized on 16 March 2021. Dr.R.Gomathi, Assistant Professor, Department of Biochemistry announced the prize winners and Dr S.Josephinol, Head, Department of Biochemistry distributed the prize to the winners.

