

Alumni Guest Lecture Report

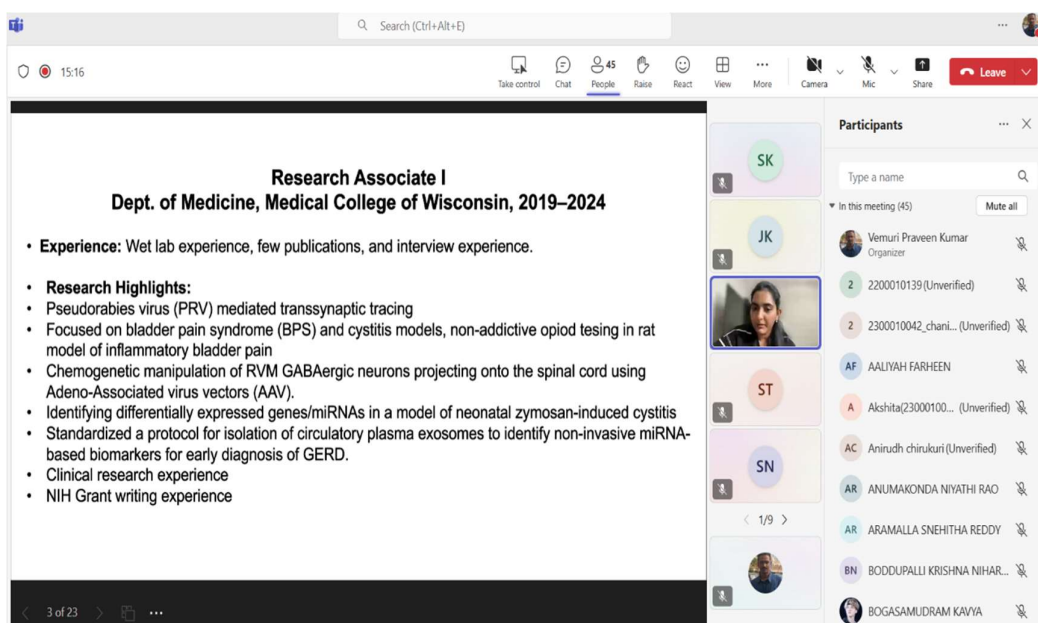
Guest Lecture by
Bhavana Talluri
on (26th December, 2024)
working as
Research Associate – Wisconsin Medical College



Information about Guest Lecture, posted on various platforms like LinkedIn and Instagram on 23/12/2024

Ms. Bhavana Talluri of Y12 Batch (KLU student) has delivered guest lecture on "Advancing Healthcare through Biotechnology" for third year students of Medical Biotechnology specialization. She introduced herself and explained how she got opportunity to explore on neuro science. A total of 64 students along with the HoD and faculty members attended the session, organised online via MS Teams. The talk was highly informative and useful to the students.

The lecture focused on the significant role biotechnology is playing in the evolution of healthcare, addressing both current breakthroughs and future prospects. The event provided students and faculty with valuable insights into how biotechnology is revolutionizing diagnostics, treatments, and patient care. The speaker highlighted the vital role of biotechnology in modern drug development, focusing on the development of biologic drugs and gene therapies.



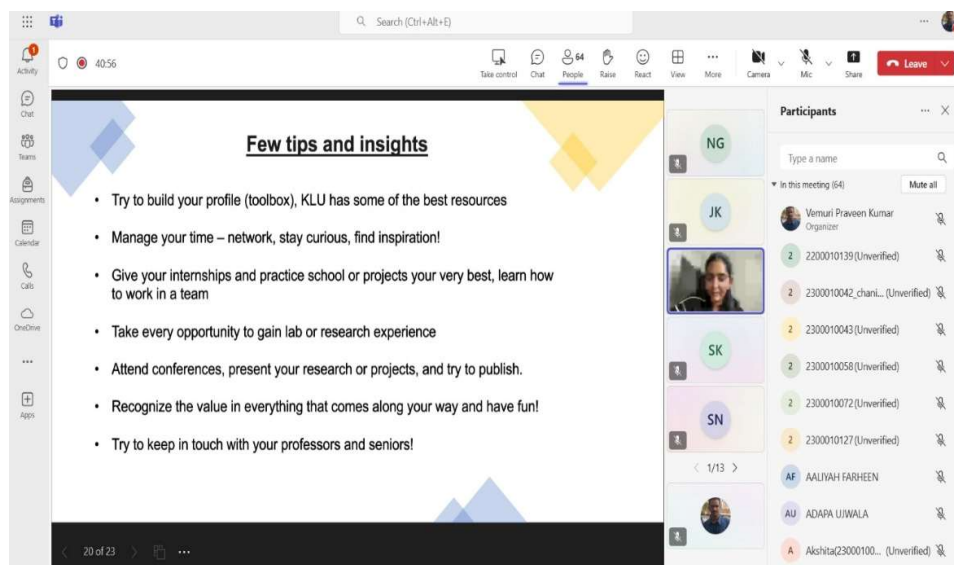
The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "Research Associate I" from the "Dept. of Medicine, Medical College of Wisconsin, 2019–2024". The slide lists the following details:

- Experience:** Wet lab experience, few publications, and interview experience.
- Research Highlights:**
 - Pseudorabies virus (PRV) mediated transsynaptic tracing
 - Focused on bladder pain syndrome (BPS) and cystitis models, non-addictive opioid testing in rat model of inflammatory bladder pain
 - Chemogenetic manipulation of RVM GABAergic neurons projecting onto the spinal cord using Adeno-Associated virus vectors (AAV).
 - Identifying differentially expressed genes/miRNAs in a model of neonatal zymosan-induced cystitis
 - Standardized a protocol for isolation of circulatory plasma exosomes to identify non-invasive miRNA-based biomarkers for early diagnosis of GERD.
 - Clinical research experience
 - NIH Grant writing experience

The right sidebar shows a list of participants (45 in the meeting). Visible names include: Vemuri Praveen Kumar (Organizer), 2200010139 (Unverified), 2300010042_chani... (Unverified), AALIYAH FARHEEN, Akshita(23000100... (Unverified), Anirudh chirukuri (Unverified), ANUMAKONDA NIYATHI RAO, ARAMALLA SNEHITHA REDDY, BODDUPALLI KRISHNA NIHAR..., and BOGASAMUDRAM KAVYA.

Expert talk by Ms Bhavana Talluri on 26th December, 2024 at 11:15AM for Biotechnology students on Neuroinflammation.

Inflammation is a protective immune response to injury or infection, but when it becomes chronic, it can lead to persistent pain. Inflammatory pain occurs due to chemical mediators like prostaglandins and cytokines, which sensitize pain receptors and cause nerve irritation. Treatments for inflammation-related pain include anti-inflammatory drugs, physical therapy, and lifestyle changes. Advances in biotechnology and personalized medicine offer hope for more targeted, effective therapies to manage inflammation and pain in the future. Neuroinflammation refers to inflammation within the nervous system, particularly in the brain and spinal cord. It's a complex biological response of the neural tissues to harmful stimuli such as infection, injury, or disease. In the context of pain, neuroinflammation plays a critical role in both the development and persistence of chronic pain conditions.



Tips and insights for students likely to pursue higher education in Medical Biotechnology

Neuroinflammation plays a significant role in both the initiation and persistence of pain, especially in chronic pain conditions. Addressing neuroinflammation through various pharmacological, non-pharmacological, and lifestyle-based treatments offers potential strategies for managing pain more effectively, especially for individuals with chronic or neuropathic pain. Dr.Nadeem Siddiqui, Associate Professor thanked the speaker for insightful and thought-provoking presentation on neuroinflammation and its role in pain. She effectively highlighted the complex mechanisms that link inflammation within the nervous system to the chronic pain experienced by so many patients. The lecture is opened for queries, where students shared their doubts with the speaker in finding out the opportunities in the field of medical biotechnology.

Recorded URL: [Alumni Talk by Ms.Bhavana \(y12 Batch\)-20241226 112538-Meeting Recording.mp4](#)

Dr.V.Praveen Kumar
Professor I/C Alumni

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