# Biotechnology department events for Phase Shift 2022

## 1. SECRET SHADOWS

**Event date:** 25th November, 2022

**Resource person:** Dr. Phaneendar B N, Director, Chairman and Managing Trustee of Clue4 Evidence Foundation

**No. of Participants:** 122 teams (team of 3)

It was a fun- filled murder mystery event and was divided into three rounds. Divided into three rounds, the activity's main aim was to ignite the creative minds to think out of the box. It involved using logical and analytical thinking skills to solve the murder mystery. Participants were given case investigation reports, audio files and were allowed to enter a crime scene that was set up by our event coordinators- Nithyashree J, Ruchita P and the volunteers to solve the mystery. As a surprise element, our resource person, Dr. Phaneendhar, a Forensic expert interrogated the participants on what they observed in the final crime scene.

A total of 122 teams (team of 3) participated in this event making it the biggest and most successful event.

The winners and runners were offered an opportunity to intern at Clue4 Evidence Forensic Investigation Pvt. Ltd under the direct supervision of Dr. Phaneendar B N.

Figure 1: Students answering questions based on Investigation report and crime scene

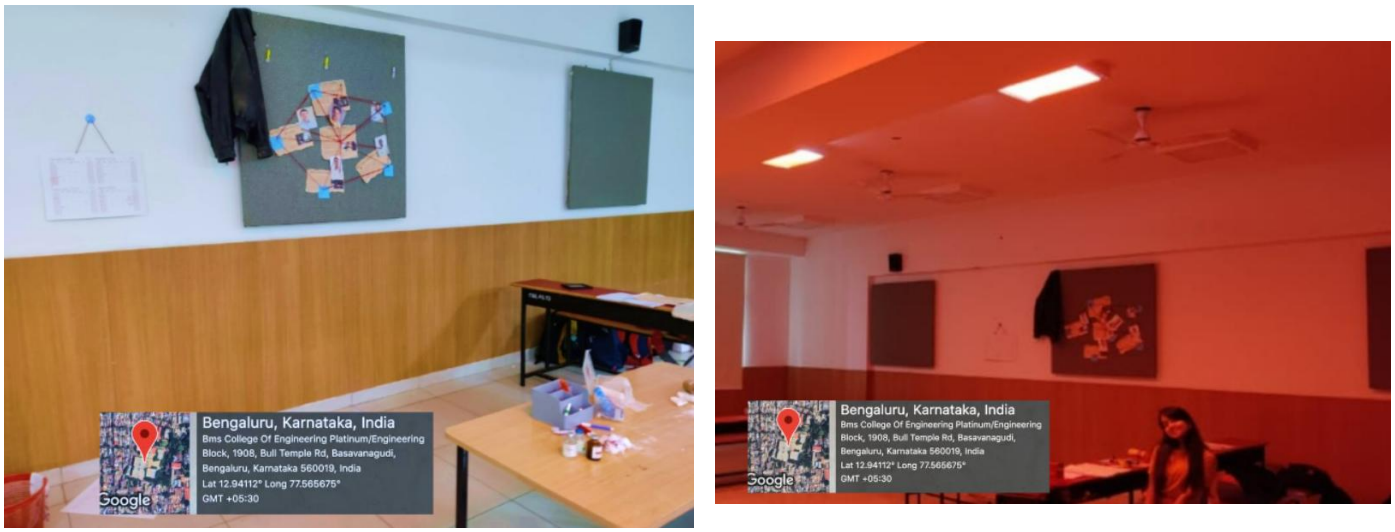


Figure 2: Crime scene (Round 2 & 3)

## 2. AminoCrypToGraphy

**Event date:** 25th November, 2022

**Resource person:** Mr. Manishkumar Sinha, Founder of Biostica

**No. of Participants:** 15 teams (team of 2)

This event was a bridge between the beginners with the knowledge of basics of biology and computer application and the bioinformatic tools being utilised in the basics of research. In order to understand and explore how databases work, an informative and interesting deciphering event called AminoCrypToGraphy was organized. It was split into 2 rounds- Round 1- Solving crossword which covered concepts related to biology, chemistry and computer science. Round 2- Clues were given to decipher a nucleotide sequence, which was used by the participants to form an amino acid codon sequence from nucleotides, finally arriving at a desired protein name.

The event coordinators Lavanya and Nischitha Jagadeesh along with the volunteers made this a successful event.

The winners and runners up of the event are being offered Project guidance and internship at Biostica.

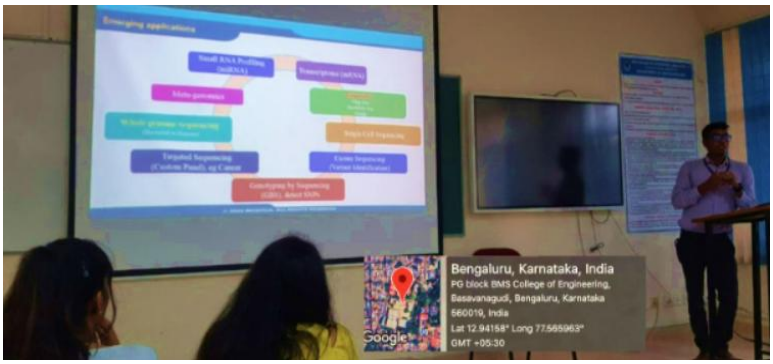


Figure 3: Introduction and Brief about Bioinformatics by Mr. Manishkumar Sinha

Figure 4: Event coordinators and volunteers with the resource person and esteemed faculty

## 3. INDUSTRY TALK- NURTURING INNOVATIONS FOR A VIBRANT ECOSYSTEM

**Event date:** 26th November, 2022

**Resource person:** Dr. Jitendra Kumar, Managing director, Bangalore Bioinnovation Centre

**No. of attendees:** 105 students+ esteemed professors

Nurturing Innovations for a Vibrant ecosystem, an Industrial Talk was given by Dr. Jitendra Kumar. The interactive talk held in the morning gave the students insights on the various prospects that the Biotechnology field has to offer. Sir guided the students on how to establish a startup venture in this field which included the initial evaluation to be done for developing a product/technology, the different sectors, understanding the market presence and needs and the essential elements required to grow the startup-biotechnology cluster. Sir also gave a Birds Eye view of the various incubator set ups in BBC. The insights given by sir helped students to understand the various opportunities available for the aspiring biotechnologists. The session was very informative which will benefit the students in the long-run.

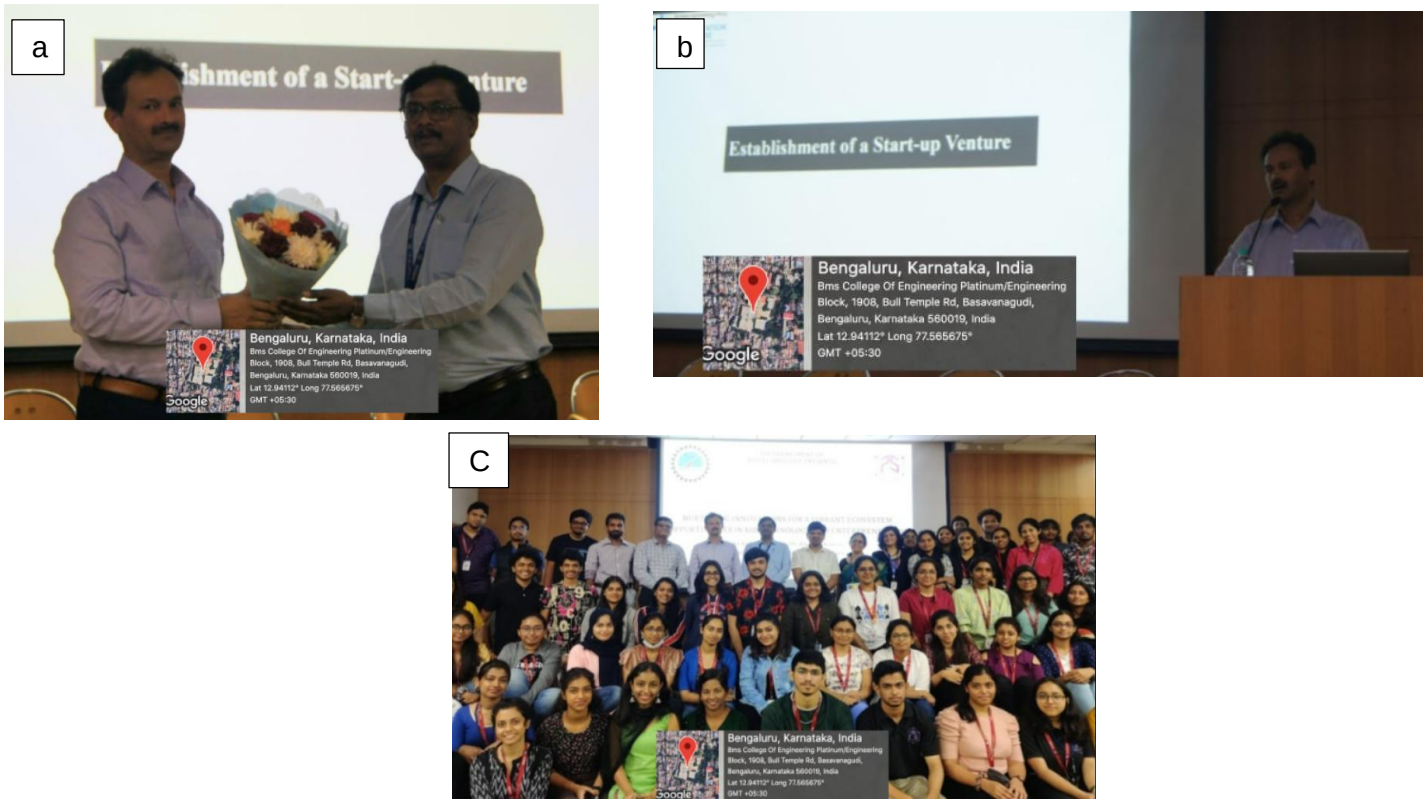


Figure 5: (a) Welcoming Dr. Jitendra Kumar by our Department HOD; (b) Dr. Jitendra giving the talk on Start-up ventures and opportunities for Biotechnology students; (c) Group picture at the end of the talk

## 4. R PROGRAMMING WORKSHOP

**Event date:** 26th November, 2022

**Resource person:** Mr. MM Shankar, CARES consultancy

**No. of Participants:** 39

The workshop was conducted by Mr. MM Shankar who has had 10+ years' experience in the field. The workshop was held in two sessions. In the morning there was a brief talk on what R programming is and how it is different and efficient than other programming languages with hands-on basics of R language. In the afternoon session topics like graphical representation, citations for a research publication were all touched upon through R coding.

40 participants attended the workshop under the coordination of C Likitha and Easha Rathnamala. Participants gained hands-on experience on R and R markdown with an opportunity to take further coaching/ guidance sessions from Mr. MM Shankar at CARES.

Figure 6: (a) Participants of the event; (b) R Programming event coordinators, BMS Faculty and Resource person