

**Mahajana Education Society (R)**  
**SBRR Mahajana First Grade College (Autonomous)**  
Affiliated to University of Mysore  
Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence  
**Post Graduate Wing**  
**PoojaBhagavat Memorial Mahajana Education Centre**  
**K R S Road, Metagalli, Mysuru – 570 016**  
**Department Activity Report 3**

- Title of the Event: **One Day Technical Seminar on “Food gut Microbiome interaction and personalized nutrition” dated on 4-5-2023**
- Name of the venue: **Life Science Auditorium**
- Details of the department organizing the event in collaboration with institution: **Department of Studies in Microbiology, Pooja Bhagavat Memorial Mahajana Education Centre K R S Road, Metagalli, Mysuru.**
- Purpose and scope of the event: **One day Technical seminar was organized by Department of studies in Microbiology. The theme of the seminar imparts the knowledge on specific function of host nutrient metabolism where the gut microorganisms help in maintaining the structural integrity of the mucosal barrier and protects against pathogen invasion.**
- Details of the talk/event/activity:
  - The Resource person on the respective scientific session was **Dr. Mahejbin Khan**, Principal Scientist, MFT Department CSIR, CFTRI, Mysuru.
  - The Programme was started at 11:0 am with the opening remarks and introduction of the scientific session narrated by I year M.Sc student Niharika Gowda H K.
  - Welcome address of the invited speaker, Professors and Students of the gathering was given by the Coordinator of the Department **Dr. Harish R.**
  - Dr. Mahejbin Khan emphasized on the significance of human gut microbiota by mentioning the beneficial organisms such as *Bacillus brevis*, *Enterococcus* sp, *Brevibacterium* sp, *Lactobacillus acidophilus*, *Corynebacterium* sp, *Helicobacter pylori* and *E.coli*. As these organisms imparts in specific host nutrient metabolism.

- She briefly elaborated the metabolic pathway associated with the glycolysis, citric acid cycle, lactic acid production, gluconeogenesis, dietary carbohydrates metabolism and synthesis of  $\beta$ -glucosidase enzymes. Through her research examination observational data were analyzed and compared with different enzymatic assays.
  - She highlighted about neuroactive metabolites such as neurotransmitters and hormones released by gut microbiome which play an essential role in neurodegenerative diseases such as alzheimer's disease, parkinson's disease etc.
  - Dr. Mahejbin Khan displayed the recent research article publications in reputed journals.
  - Dr. Mahejbin Khan felicitated by co-ordinator and the staff of the life science department.
  - Ist M.Sc student Niveditha C S has given the vote of thanks.
- A brief profile of the Resource person: Dr. Mahejbin Khan, Principal Scientist, MFT Department CSIR, CFTRI, Mysuru. Dr Khan completed her Post-Graduation and Doctoral degree in GB Pantnagar University of Agriculture and Technology, Uttarkhand. She was appointed as Scientist in CFTRI, Mysore in 2009. Dr Khan was selected for theoretical and practical course on Metagenomics and Bioinformatics. ICGEB, Bogota Colombia in June 2009 (*Travel Sponsored by Kirkhouse trust, UK*) and obtained Post-Doctoral fellowship in National Food Research Institute, Tsukuba, Japan from 2012-2013. She has received Best Young scientist award in 8th African Crop Science Society Conference, Minia University, El-Minia, Egypt. Dr. Mahejbin Khan has published more than hundred Research articles under reputed National/International scientific journals. She is expertise in “*Gut Microbiome and Covid-19 mRNA Vaccine*” and two Indian patents are filed on her research outputs.
  - No. of Participants/beneficiaries: **60**

**Signature of the Event co-coordinator**

**Signature of the Principal**

## Gallery Section



**Dr. Harish R addressing the Invited speaker**



**Presentation by Dr. Mahejbin Khan**



**Group picture of school of Life science**