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WOMEN IN STEM ROADSHOW

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STUDENT POPULATION

- Enthusiastic students from different batches – GCCA (genetics, chemistry, and computer applications), BMC (biochemistry, microbiology, and chemistry), GMC(genetics,microbiology, and chemistry) and MCCA(microbiology,chemistry, and computer applications) were encouraged to take part in the STEM workshop.
- We had to limit participation as the seats were limited for the workshop and there were large number of students who were disappointed as they could not participate.
- I learned valuable tips to motivate my students.
- I decided to routinely organize experiments and/or activities outside of the regular syllabus.
- One such activity was to grow plants invitro

ACTIVITY: Grow plants invitro

- I organized the activity in Shadan Degree College for Women where I am a full time faculty.
- Under sterile conditions, using laminar air flow chamber and autoclaves an enrichment medium for tissue culture was prepared.
- Each batch was given different seeds for inoculation and few were given the leaf of the same species.
- Some of the species studied were: Mustard (*Brassica Juncea*), Cumin, fenugreek, and Sesame seeds

RESULTS

- Comparison between seed and leaf incubation was recorded.
- On leaf, after incubation in incubators, the development of callus was observed.
- In inoculated seeds, after incubation; germination was observed.
- Students were excited to observe the results.
- Experimentation and hand-on learning is fun for students and more appealing
- Most of my students after the STEM roadshow recognize the importance of observation and inference.
- I am grateful for the workshop and thank Dr. Sultana Nahar for organizing.

My students with the results



Me and my students



Result of Invitro Growth of Plants

