

TRAINING OF BASIC SKILLS ON PLANT TISSUE CULTURE TECHNIQUES FOR MGMP'S BIOLOGY TEACHER IN SLEMAN DISTRICT

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ABSTRACT

A large part of biology teachers faced obstacles in teaching learning on the topic of Biotechnology for class XII because they have not yet getting that material in their college. The PPM activity is aimed for providing the basic techniques in plant tissue culture practices related to their basic concepts and its development so that they achieve the minimum competencies required to teach High school student according to the demands of the curriculum 2013.

The target of the training is the MGMP's Biology teachers in Sleman Regency as many as 18 out of 20 invited participants. The activities were given in the form of tutorial, the assessment of practical activities, the practice of making the media and sterilization of needed equipment, as well as the practice of in vitro culture with the explant of seeds and seedling of Dendrobium orchids. To see whether there is an increase in teacher understanding related to basic concepts, terminology and procedures a pretest and posttest are performed. Basic skills are observed during preparatory and practical activities. At the end of the activity an evaluation was conducted by the participants regarding the usefulness and satisfaction of the training provided by the questionnaire.

Based on the pretest and posttest, this training activity able to increase the understanding of the trainees of teachers related to basic concepts, terminology, understanding of procedures or processes, and also the tools and materials for in vitro culturing of plant tissue. The training activity received a positive response because it was felt to be very beneficial for the teachers and hoped that the training would be held again or expanded by the target group in the future

Kata Kunci: *Training, Basic skills in tissue culture techniques, Biology's MGMP*