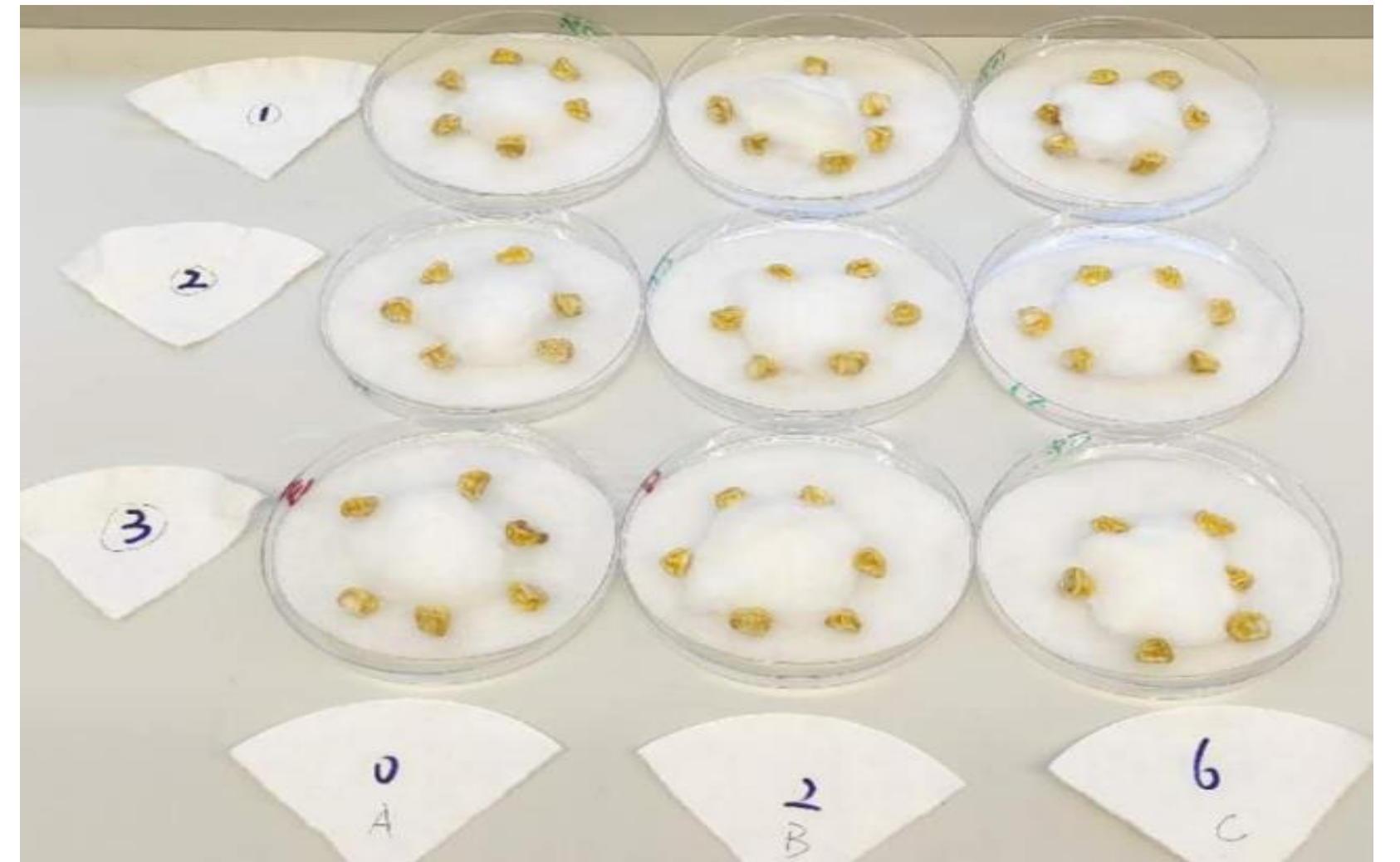


# TOXICITY OF CIGARETTE BUTTS

Wang Haonan

In this study, the effect of tobacco water on seed germination and plant growth of corn was analysed experimentally

In this study, we investigated the toxic effects of cigarette butt water on corn seed germination and plant growth through two experiments. Experiment 1 focused on evaluating the effects of different concentrations of bong water on germination, rooting and early growth of corn seeds, while Experiment 2 further analysed the growth traits of corn plants, including plant height, stem thickness, leaf area, root number and fresh weight, over a period of 20 days.



Experiment 1



Experiment 2



In this experiment, Marlboro Gold cigarette butts were selected to produce different concentrations of leachate to study its effect on corn seeds. Corn was chosen as the experimental plant because of its fast germination and easy observation, and the leachate was prepared by soaking 2 and 6 cigarette butts for irrigation analysis in different groups.



Experiment 1: Irrigation of corn seeds by different concentrations of butt water revealed that germination and rooting were significantly inhibited in the high concentration group, while the low concentration group was inhibited but recovered at a later stage.



Experiment 2: Observations extended to 20 days further verified the inhibitory effect of high concentrations of tobacco water on corn growth, particularly affecting plant height, leaf and root development, while the low concentration group showed some degree of promotion.





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