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A Cell Plant Regeneration

Three experiments were devised on the application of an organic extracellular matrix to aid the regeneration and cell development of plants. In the first experiment, twenty African Violet tissue cultures were grown. The extracellular matrix was applied to ten plant tissue cultures before placing all twenty samples into the agar, and periodically gathered the mass to compare the growth of the tissue cultures with and without the extracellular matrix. For the other two experiments cuttings from a Pothos were taken, and grew two separate trays of 40 cuttings. Each tray was from a different source plant, and was separated into, a control and experimental group. For one tray the plants were cut into stumps and placed the extracellular matrix on half the stumps. For the second, tray the nodes were cut off, and placed the extracellular matrix on the scar where the node was removed. The experimental or the control group of the tissue culture have shown no signs of growth or that they are dying. Thus, the tissue cultures most likely need more time to grow. The tray of stumped plants had no significant growth over the plants with or without the extracellular matrix. In the second tray the nodes did not grow back and could need more time to I concluded, that the tissue culture and the cuttings most likely need more time as well to produce results that any conclusions can be drawn from.