

Title : The pyraclostobin effect on in vitro rooting of potato tissue culture

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The potato has been used as important food nowadays. Today, the potato is the fourth largest food crop in the world and grown in almost every country. The annual worldwide production exceeds 300 million tones. Seedling is the most important factor and potentially can be boost by tissue culture techniques. In tissue culture technique plant hormones are signal molecules produced within the plant, which is very important to increase the growth and differentiation. Plant hormones occur in extremely low concentrations or synthetic molecules for special purposes. This research was conducted at Tissue Culture laboratory, Faculty of Agriculture, University of Brawijaya, arranged with Randomized Complete experimental design using four level of treatments on GK Variety potatoes, The treatment was arranged as explained below: Ms + 0, MS + IAA 1 ppm, MS + IBA 1 ppm, MS + Phyraclostrobin. The application of Phyraclostrobin in tissue culture is also potential for potato tissue culture and it will perform better by combine it with hormones.

Keywords: In Vitro, Phyraclostrobin, Potato, Tissue Culture