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**AgSURS - Reviewer 1 View**

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| **Abstract Title** | Effect of Selected Commercial Rooting hormones on Air-Layering of Jackfruit (*Artocarpus heterophyllus* Lam.) |
| **Abstract Body** | Jackfruit (*Artocarpus heterophyllus* Lam.) belongs to the family Moraceae and is the most important, popular, and functional tree in tropical home gardens. The sexual propagation is the main vegetative propagation method but farmers give the priority to asexual propagation because it limits the genetic variation. Air layering is a method of propagating a plant by cutting off part of the aerial stem and encouraging root formation by packing the area with a moist medium. Therefore, this experiment was conducted to find out the effect of commercially available rooting hormones on air layering of three jackfruit varieties “Farther long”, “Hirosa” and “Maharagama”. The Plant fix® (25 mL+distilled water), Roocta® (0.5 g+distilled water) and control (distilled water) were the treatments used for all three varieties. The experiment was carried out at Fruit Crops Research and Development Station, Gannoruwa, Peradeniya. Three rooting hormones were tested in a Randomized Complete Block Design (RCBD) with three replicates. Callus diameter (mm), callus weight (g), root primordia weight, diameter of root primordia (mm), number of root primordia and survival percentage (%) were measured end of the eight-week interval. Diameter of root primordia was significant in “Farther Long” “Maharagama” and “Hirosa” varieties. Both callus diameter and root primordia weight were significant in “Hirosa”. Number of root primordia was significant in all three varieties. Callus weight was significant only in “Hirosa” (p<0.05). It is concluded that Plant fix can be recommend for “Maharagama”, “Farther Long” and “Hirosa” varieties. |
| **Key Words (5 Words)** | Callusdiameter, Plantfix, Roocta, Rootprimordia |
| **Abstract ID** | CPT0103 |
| **Findings of this study (r1)** | ……………………………………………………………………………………………………………………………………..   1. Make a significant contribution to existing knowledge 2. Make a marginal contribution to existing knowledge 3. Contain conceptual errors/faulty judgments 4. Confirm known results |
| **Title of the abstract(r1)** | …………………………………………………………………………………………………………………………………….   1. Is appropriate to the thematic area and descriptive 2. Needs improvement |
| **If needs more improvements for**  **"Title" please specify here(r1)** |  |
| **The content of the abstract(r1)** | ………………………………………………………………………………………………………………………………………   1. Is clear and concise 2. Needs improvements |
| **If needs more improvements for "Abstract" please specify here(r1)** | Pl see the comments on the abstract itself |
| **Recommendation(r1)** | ………………………………………………………………………………………………………………………………………   1. Accept in the present form with minor editorial corrections 2. Accept with minor corrections 3. Accept with major revisions cited 4. Reject |
| **Please justify reasons for If rejection(r1)** |  |
| **Any Other**  **Comment(r1)** |  |
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