

Selection and Evaluation for Desirable Rootstocks for Atemoya (*A. Cherimola* x *A. Squamosa*)

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Summary

To graft a shoot from an Atemoya tree into a seedling of Annona or Rollinia varieties was to find out the compatability and the survival rate between the rootstock and the graft or the interstock as well as the susceptibility of phellinus noxius. The experimental results showed that the compatability of grafting a shoot from Atemoya on Thick scale, Soft branch, Purple. Atemoya, Cherimoya and Bullock's heart rootstock was good and the establishing percentage reached 78% over. The rootstock of Bullock's heart or Thick scale grafted from Atemoya had the phenomenon of rootstock advantage or rootstock unadvantage, respectively, and the rootstock of Atemoya or Cherimoya grafted from Atemoya had good graftunion. Cherimoya, Atemoya and Bullock's heart as rootstock, Thick scale and Soft branch as interstock grafted from Atemoya had good compatability of which survival rate was above 75%. Manual inoculation of phellinus noxius on various rootstocks was 100% wilting death rate for inoculation on Thick scale. Soft branch and Purple after 3 weeks. The rootstocks of Soursop, Mountain Soursop and Pond apple had resisting power to disease, but had poor compatability with Atemoya, and were not good compatability as well as low survival rate through interstock test.

Key words : Atemoya (*A. Cherimola* x *A. Squamosa*), Grafting, compatibility, Rootstock, *phellinus noxius* (*Brown root rot*)

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