were rooted on NAA, IBA and IAA. Profuse rhizogenesis was observed on MS medium augmented Invitro rooting was successfully achieved in S.torvum. the shoots regenerated from all the explants present investigation for invitro rooting is useful in mass-scale propagation and multiplication of the superiority in inducing invitro rooting followed by NAA and IBA. The protocol developed during the percentage of responding cultures was also observed at the same concentration of IAA. IAA showed with 1.0 mg/L IAA in comparison to all other concentrations of auxins used in S.torvum. Maximum

pCMUSANRSHSP-163 in order to develop the high temperature stress tolerant transgenic plants. Agrobacterium tumefaciens mediated genetic transformation has also been carried out to introduce the

multiplication and conservation of medicinally important and endangered plant species, Lab-to-Land For the establishment of invitro regenerated plants acclimatization/Hardening is a crucial step. transferring the plants developed in Lab to the research field Program has to be taken up in which this technique plays a vital role. We are successful in For

sustainable leaf/stem harvesting OP-82: Pruning as an effective practice for Kothla himbutu (Salacia reticulata white) to ensure

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their natural habitats due to severe exploitation and unsustainable harvesting methods. Kothala Himbutu (Salacia reticulata White), a well-known medicinal plant is near extinction from cm above the ground level. After a period of six months, the 2nd pruning was done at 90 cm height. University of Ruhuna to assess the effect of plant pruning on growth and sustainable increasing demand. The present field investigation is carried out at the Faculty of domestication and cultivation are considered to be effective means of conservation while meeting the plants that have been first pruned at 50 cm height was significantly higher than that of the other two of pruned leaves and stems were measured as yield parameters. Number of new branches (4) of the Number of new leaves and stems, height of the shoots were measured at monthly interval. Dry weight can effectively be used in ensuring sustainable leaf/stem harvest from Kothala Himbutu plants first pruning at 50 cm height could result in more biomass. Thus it could be concluded that pruning after the second pruning at 90 cm. Measurements on shoot height and dry weight also proved that the pruning heights. The same treatment was found to be dominant in producing new branches (20) even . Twelve months old plants were selected and their first pruning was done at 30, 40 and 50 Agriculture. leaf/stem

shoot tip explants of banana Cv. Rasthali, (Aab). Prathibha KY¹, Mohandas S², Ranganath RM³ OP-83: Comparitive study of embryogenic and non embryogenic callus of male flower buds and

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months well developed somatic embryos were sub cultured on to MS supplemented with NAA (1.07 banana ev. Rasthali which is highly susceptible to fusarium disease. Embryogenic callus and somatic B NP : 2.22 µM). obtained when somatic embryos were cultured on MS with Morel vitamin, IAA (11.42 µM)), and μΜ1. Zeatin (0.23 μM),2-ip (0.60 μM) and kinetin (0. 46 μM) for further maturation. Plantlets were 1-1) (18.10 μM). NAA (5.37 μM) and IAA (5.71 μM) with 3% sucrose and 0.2% gelrite. embryos were generated with male flower buds and shoot tips on MS medium supplemented with 2 youth. Studies were initiated to develop regeneration protocol through somatic embryogenesis in Banana is known in the ayuverdic practice in India and Ancient Persia as nature's secret of perpetual After 6-8