Application of Plant Tissue and Cell culture methods has immense potential in the large-scale propagation and conservation of the unexplored biodiversity of plants all over the world and especially in a huge country like India. This is especially true for plants with medicinal properties. Tissue culture and Phytochemical Studies on Solanum surattense Burm. F is good Research hand book for the students of Research courses at various Universities. As such the subject matter of this book has been conceived and presented with a broad aim to reach out to the students of Ph.D courses in Botany/Biotechnology and also in essence to out the faculties guiding plant Tissue Culture. The book contains the results of original observation on Callus induction Callus mediated Regeneration, Direct Regeneration, In vitro Micro Propagation, Somatic embryogenesis and Protoplast isolation, Phytochemical Analysis and Biological Activities, Agrobacterium mediated Genetic transformation and Bibiliography of Solanum surattense Burm.F A Medicinally Important Plant. Genetic Engineering gives a concise presentation of the main aspects of transferring genes of plants in the light of the latest idea.

Tissue Culture Studies in S. surattense

Thirunahari Ugandhar

Tissue Culture and Phytochemical Studies on Solanum surattense Burm. f

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Solanum melongena L in a vegetable crop widely cultivated in Mediterranean area. Egg plant is widely used as medicinal plant in addition to beginning an important vegetable in many dietes. Some medicinal uses of egg plant tissues and extracts, includes, treatment of diabetes, asthma, cholera, bronchitis and dyheria. Its leaves and fruits are reported to promote lowered blood cholesterol levels. Roots are credited in the indigenous medicine as anti asthmatic and general stimulant. Considering the importance of the species Solanum melongena L an attempt has been made to achieve the some objectives using the tissue culture technology for improvement of the species. To establish the protocol for callusing efficiency of cotyledon and leaf explants on medium containing various growth regulators. To standardize the protocol for callus mediated regeneration on different concentrations and combinations of growth regulators. To study the effect of various concentrations and combinations of growth substances on in vitro plantlet regeneration through direct organogenesis in leaf and cotyledon explants. To standardize the protocol for Agro bacterium mediated genetic transformation from hypocoty

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In vitro culture studies and Genetic Transformation of Agronomical important plant Solanum melongena cv Pusa kranthi

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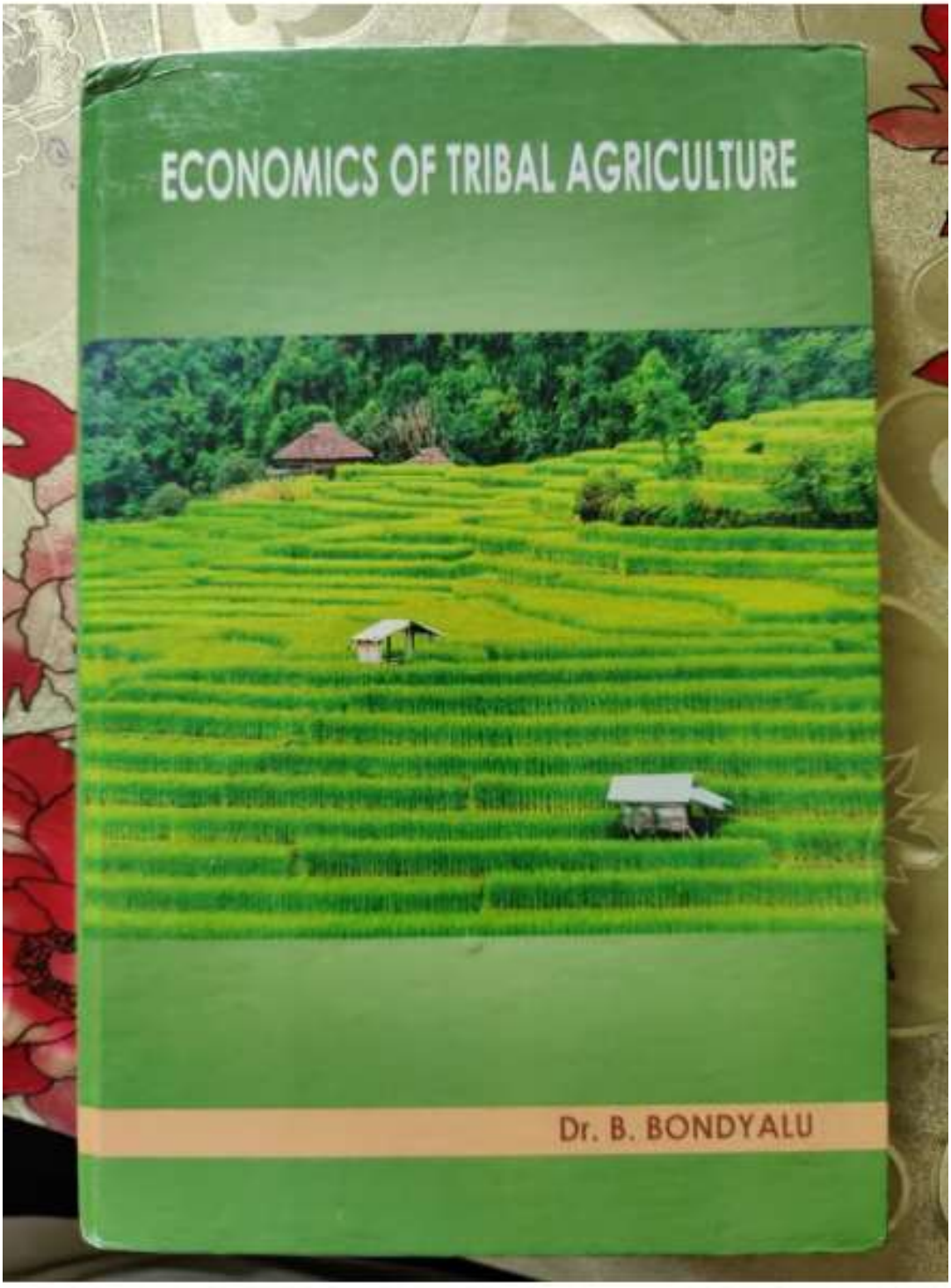
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