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Plant tissue culture and its importance in herbal industries in India

Kuntal Das

Krupanidhi College of Pharmacy, India

Plant tissue culture is an integral part of the plant biotechnology and is an alternative to conventional methods of propagation. The importance of plant tissue culture is in the improvement of useful aromatic and medicinal plants and also the ways in which it is beneficial to mankind. It plays a vital role in biodiversity conservation and economic development globally. Mainly in India, rich biodiversity has been seriously affected with the increasing human population and reckless use of natural plants. Thus public awareness towards the value of conserving biodiversity for sustained development has increased considerably in all the sectors. Broadly it is the technique of *in vitro* aseptic culture of any kind of plant cells, tissues and organs to procure excess amount of secondary metabolites. Not only that several new approaches for genetically altering plants are time-saving and precise as compared to conventional plant breeding methods. As per recent trends, the herbal remedies for health management is growing in popularity, as in food industries, germplasm conservation and cosmetic industries. The value of all the components are getting commercially viable when the raw materials are supplied in pure form which is only possible with the plant tissue culture. By focusing on different uses, the topic has explained elaborately about the recent advancement and application in Indian Industries.

Biography

Kuntal Das has completed his PhD from Rajiv Gandhi University of Health Sciences, India. He is serving as an Assistant Professor in Krupanidhi College of Pharmacy, Bangalore, India. He has published more than 40 research papers in reputed journals, 04 book chapters (02 in Elsevier publishers, in press) and authored 03 books. He is also serving as an editorial board member and reviewer for many journals. He has oral presented in Romania, Thailand and many places in India and received two awards for his poster presentation in the year 2004 and 2005. He has research guided 11 Master students.

drkkdsd@gmail.com