

# 植物ゲノム・遺伝子源解析センター 月例セミナー

とき 平成23年6月17日(金)  
16時～17時  
ところ 農学部 DS304講義室

題目 **Tissue Culture and Crop Improvement**  
講師 **Dr. N. JAYABALAN**  
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Bharathidasan University, Tamil Nadu, India.

## 概略

Tissue culture is the process whereby small pieces of living tissues (Explants) are isolated from an organism and grown aseptically for indefinite period in a nutrient medium. Crop Improvement is the improvement in beneficial character genetically in plant which are for better than the parents.

Tissue culture has different types/aspects: Micropropagation, Organogenesis, Meristem culture, Somatic embryogenesis, Protoplast culture, Cell culture and Embryo culture.

Tissue culture technology is used for production of haploids, genetic variability, somatic hybridization and genetic transformation. It is also used for the production of pathogen free plants, drought, salt, disease and herbicide resistance plants.

**The thesis work entitled “*In vitro* plant regeneration and genetic transformation studies in *Coriandrum sativum* L. for crop improvement” will be presented in the seminar.**

## 参考文献

Stephen, R. and Jayabalan, N. 1998. *In vitro* flowering and seed setting formation of *Coriandrum sativum* L. Curr. Sci. **74**: 195-197.

Stephan, R. and Jayabalan, N. 2003. Genetic Transformation and Regeneration of Coriander. SCI Tech publishing LLC, USA. Vol. 3: 161 - 178.

(<http://www.bdu.ac.in/schools/lifesciences/plantscience/>)

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(<http://www.ag.kagawa-u.ac.jp/phytogene/index.html>)