Certificate of Attendance



Emerging Challenges and Opportunity in Horticulture Supporting Sustainab

This is to certify that

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INTERNATIONAL SYMPOSIA ON HORTICULTURE 2018

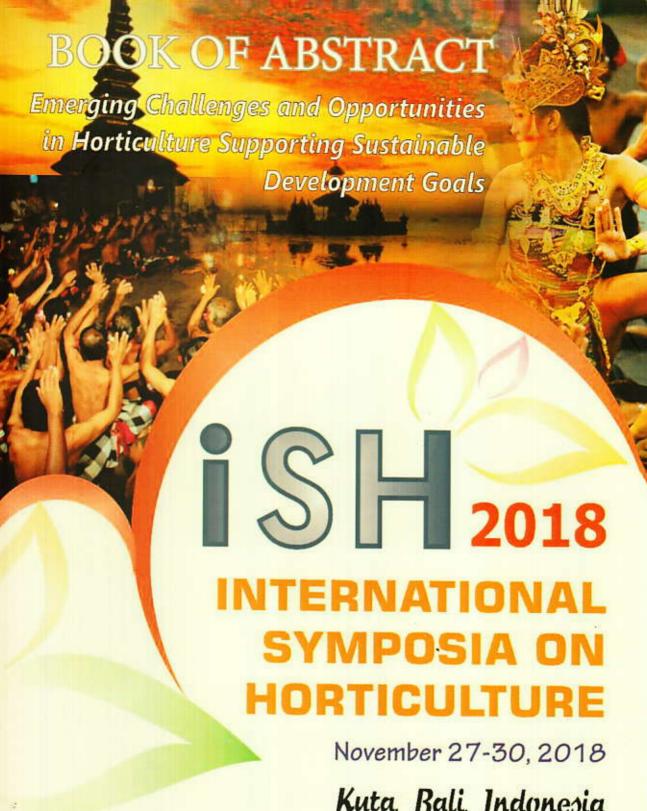
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Dr. Hardivanto, M.Sc Director of ICHORD

Ministry of Agriculture Indonesian Agency for Agricultural Research and Development INDONESIAN CENTER FOR HORTICULTURE RESEARCH AND DEVELOPMENT



Kuta, Bali, Indonesia

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RR Rini M., Ph.D

Indonesian Vegetables Research Institute

Puspitasari, MŠi

Indonesian Center for Harticulture Research and

Development

Rizka A. Nugrahapsari, MSi

Indonesian Center for Horticulture Research and

Development

Hafith Furgoni, M.Si

Bogor Agricultural Institute

Rima Setiani, SP, MM

Indonesian Center for Horticulture Research and

Development

MADE RIA DEFIANI odayana University

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ORAL

Increasing Genetic Diversity and Phenotype Response of In Vitro Torbangun (Coleus amboinicus Lour.) Through Gamma-Ray Irradiation

Henny Rusmiyati¹⁾, Syarifah lis Aisyah²⁾, Dewi Sukma³⁾, Rizal Damanik⁴⁾

Graduate School, Bogor Agriculture University

Department of Agronomy and Horticulture, Faculty of Agriculture, Bogor Agriculture University

Community Nutrition Department, Faculty of Human Ecology, Bogor Agriculture University

E-mail: hennyrusmiyati@yahoo.co.id

Abstract. The diversity of Indonesian Coleus amboinicus I. species is on development. These species were called as Torbangun plant by the Batak tribe in Indonesia. It has been known to help to stimulate breast milk production. The purpose of this study was to improve the genetic diversity of Torbangun through gamma-ray irradiation. Moreover, to dentify the genetic diversity and phenotype response of Torbangun plantlets mutant. This study used a complete factor Randomized Block Design (RCBD) with three replications (subculture days) in In Vitro culture laboratory, Bogor Agriculture University. The node of Torbangun was cultured in vitro on MS medium supplemented with 1.5 mg/lenzylaminopurine (BAP) and 1 mg/l Gibberellic Acid (GA3). The resulting plantlets were irradiated with gamma with GA3 and BAP. The results showed that gamma-ray irradiation on the Torbangun plantlets produces a Lethal Dose to (LD_{s0}) value of 44.036. High phenotypic coefficients of variation estimates observed on plantlet height, the number leaves, the number of shoots and the number of roots. Phenotypic coefficients of variation were higher than the metants in leaf color changes into albino, purple, variegated green, variegated yellow and dark green.

words: Torbangun, gamma-ray, plantlets mutant

Trends of Ornamental Plants Offer by Nursery Shops around Denpasar, Bali

Made Ria Defiani

Universitas Udayana E-mail: maderia/a/umud.ac.id

Ornamental plants are one of horticulture plants for decorating garden, landscape, cut flowers and display hotels or festivals. Consumer demands to buy seedlings, plants or flowering pot may change due to flower usage of the plants. The study was conducted to explore kinds of ornamental plants that offered by nursery to propagate the plants. Exploration with observation was carried out in the field or nursery or ornamental so on plant type, propagation methods, price and selling trends. In facts, some nurseries at the same area sell seedlings and flowers almost the same with others nurseries. The type of ornamental plants that offered were redding plants, potted plants, cactus, flowering plants and others leafy plants. The price is based on type of tange between Rp. 2,000 to houndred thousands rupiahs. Propagation of ornamental plants including cutting, seeing, sowing seed. Based on consumers, demands of orchids, roses, chrysanthemums flower increased state season or wedding ceremonial time. In other hand, demands of bedding plants and other seedlings plants

propagation, seedlings, potted plant, flowering plants



Trends of ornamental plants offer by nursery shops around Denpasar, Bali

Made Ria Defiani

Biology Department, Math and Natural Sciences, Udayana University, Bali

TOPIC

- Ornamental plants
- Nursery around Denpasar
- Consumers
- Trends
- Conclusion





Ornamental plants

Used for:

- -healing and reduce stress
- -cut flower

(bouquet and ceremonial for Balinese)

- -soft material for landscape
- -display at office, airport, hospital, hotels
- -decorating stage
- -festival

Purposed of study

- Explore kinds of ornamental plants that offered by nursery
- Identification how to propagate plants in general







Nursery around Denpasar

Mostly located around

- Hayam Wuruk street (2 km from Sanur)
- Renon area

What to offer?

- Orchids, roses, chrysanthemum, cactus
- Bedding plants and potted plants
- Big plants (Plumeria, Palm tree, Coconut tree)

Consumers demands

- Increase during festive season and Idul Fitri
- Week ends
- Rainy season
- Graduation





ANTHURIUM

on year 2007













Flowers for Balinese offering



Impatiens, marigold, plumeria and pandanus leaves

Flower uses for Balinese ceremonial







Another flower for offerings and praying













Trends

- What to offer?
- How to offer?
 - personally
 - shops
 - order OnLine
- How to deliver?

-Go- ... On Line







Conclusion

- Flowers demand increase on festive or wedding ceremonial
- On line shopping
- Home gardening to provide for offerings



Thank you

