



# Associate Professor

## Dr. PHOPGAO PUTTHARAK

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### EDUCATION

Ph.D. (Biological Science 1993)  
Chandrakasam Rajabhat university

MS. (Biology 1996) Chiangmai university

BS. (Biology 2007) Naresuan university

### RESEARCH INTERESTS

- Plant Tissue Culture
- Molecular Biology
- Cytogenetics

### TEACHING EXPERIENCES

- Plant Tissue Culture
- Molecular Biology

### GRANTS

- Thailand Research Fund, 2019-2020: Conservation and propagation of Makang white and red using tissue culture techniques
- Thailand Research Fund, 2018-2020: Genetic conservation and development of utilization of Phak Wan Pa by biological activity for use as a health product
- Phayao University Research Fund, 2016-2020: Identification of Phak Waan species by molecular biology techniques
- Phayao University Research Fund, 2015-2020: Genes Transformation of Pathumma using *Agrobacterium tumefaciens*

### PUBLICATIONS

U-kong W., Wongsawad P. and Buddharak P. (2012). Shoot bud and Young Leaf Induction of *Jasminum* spp. In *in Vitro*. International Journal of Applied Agricultural Research. Vol.7 (1): 17-26.

Phopgao Buddharaksa and Warut U-kong. (2012). *In vitro* propagation of *Kalanchoe blossfeldiana* and *Graptopetalum paraguayense* (CRASSULACEAE) an ornamental plant. Global Journal of Applied Agricultural Research. Vol.2 (1): 45-53.

## PUBLICATIONS

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Phopgao Buddharaksa and Warut U-kong. (2012). Propagation of Vegetable Economy (*Brassica Rapa* L., *Chinese Kale* L., *Aqium Graveolens* L. and *Lactuca Sativa* L. by Plant tissue Culture Techniques. International Journal of Horticultural & Crop Science Research. Vol.2 (1): 19-25.

Ruttaporn Chundet, Warut U-kong, Panarin Preechawattanakon and Phopgao Buddharak. (2014). *Agrobacterium* – Mediated Genetic Transformation of *Hevea brasilliensis*. The 25<sup>th</sup> Biennial Conference of the Asian Association of Biology Education, 13-16 October, crystal crown hotel, Petaling, Selangor, Malasia.

Ruttaporn Chundet, Warut U-kong and Phopgao Buddharak. (2014). Transformation of *dihydroflavonal 4- reductase (DFR)* gene into patumma using *Agrobacterium* – Mediated gene transfer. The 26<sup>th</sup> Annual meeting of the thai society for Biotechnology and international Conference, 26-29 November, Mae Fah Luang University, Chiang Rai, Thailand.

Phopgao Buddharak, Ruttaporn Chundet and Warut U-kong. (2015). A protocol for *Agrobacterium*-mediated transformation of *Kalanchoë blossfeldiana* with a flavonoid 3',5' hydroxylase (*F3'5'H*) gene. African Journal of Biotechnology. Vol. 4(39): 2765-2769.

Kaewma, C., Puttharak, P., Pinmongkonkun, S., Daokhanong, P., Bamrungain, K and Tiwan, J. (2019) Rapid *in vitro* clonal propagation of Plu Kao (*Houttuynia cordata* Thunb.) using nodal explants. National Proceeding of Science Research Conference 11<sup>th</sup> 23-24 May, Srinakharinwirot University, Bangkok, Thailand.

Petchang, R., Buddharak, P., Chundet, R and U-kong, W. (2017). Cloning of *DFR* gene in *Curcuma alismatifolia* 'Chiang Mai Pink' and *Agrobacterium*-mediated transformation. Journal of Biotechnology. Vol. 12(3): ISBN: 0973 - 6263.

Sanguansermisri, M., Puttharak, P., Wongsawad, P., Phomtep, K., Phorong, A and Jaiphet. C. (2018). Plant growth and plantlet regeneration from *Clerodendrum colebrookianum* Walp. Leaf. Naresuan Phayao Journal. Vol 11(3): 66-69.

Wongsawad, P., Jaiphet, C., Saenprasit, Y., Jaiwut, S., Haohan, A and Puttharak, P. (2519). Inter simple sequence repeat (ISSR) based analysis of morphological variation of transgenic *Kalanchoe (Kalanchoe blossfeldiana)*. Naresuan Phayao Journal. Vol. 12(2): 28-31.

## SERVICE TO THE FACULTY

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- Science Board
- Master of Biology Program committee

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## MEMBERSHIPS / AFFILIATIONS

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