Curriculum Vitae

Name: Nongnapat (Siriwan) Kunagorn (Burikam), Ph.D.
Position: Researcher (Expertise), Professional Level
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EDUCATION

2001	Ph.D. (Tropical Agriculture), Kasetsart University, Thailand
1982	M.Sc. (Plant Pathology), Kasetsart University, Thailand
1978	B.Sc. (Plant Pathology), Kasetsart University, Thailand

TRAINING

1995	Rice transformation, The Scripps Research Institute, San Diego, CA, USA (The Rockefeller Foundation)
1992 - 1993	Embryo culture and protoplast culture for plant breeding of *Brassica* spp., Chiba University, Tokyo, Japan (JICA)
1992	Cell culture of papaya for papain extraction, Chiba University, Tokyo, Japan (JSPS)

PROFESSIONAL EXPERIENCE

1987 - present	Kasetsart University Research and development Institute, Kasetsart University, Thailand
1983 - 1987	USDA-Wheat Project, Oregon State University, OR, USA

AREA OF EXPERTISE

- Plant cell, organ and tissue culture
- Production of disease free plants
- Plant transformation

RESEARCH GRANT

As Head of Project / subproject:

2014 - 2015	Research for Quality and Agricultural Usage Development of Wood Vinegar
2014 - 2105	Efficiency of Wood Vinegar on Plant Growth

2014	Creating Fluorescent Aquatic Plants for a New Opportunity in the World Market of Thailand's Aquatic Plants
2012	Development of Gene Transformation Technique in Aquatic Plants for Crop Improvement
2010 - 2011	Elimination of Viruses from Canna Rhizomes and Production of Virus-free Plantlets
2009 - 2011	Assessment and Multiplication of the Selected Asparagus (*Asparagus officinalis* L.) Clones Derived from Anther Culture
2008 - 2010	Improvement of Eucalyptus for the Northeastern Thailand Plantations by Gamma Irradiation and Tissue Culture Techniques
2006, 2008	Improvement of Jatropha (*Jatropha curcas* L.) Crop Plants by using Gamma Irradiation and Tissue Culture Techniques
2005 - 2007	Quality Development and Artificial Seed Production of Asparagus (*Asparagus officinalis* L.) through Tissue Culture
2002 - 2004	Investigation and Improvement of Secondary Metabolite Production from Thai Herbal Plants for Pest Control by using Biotechnology
2000 - 2001	The Improvement of Khao Dawk Mali 105, an Elite Aromatic Thai Rice, for Abiotic Stress Tolerance

PUBLICATIONS

1. **Kunagorn, N.**, Chiemsombat, P. and Sundhrarajun, S. 2013. An Efficient Protocol for Elimination of Canna Yellow Mottle Badnavirus (CaYMV) in Canna (*Canna indica*) Plantlets Cultured In Vitro. In Vitro Cellular & Developmental Biology - Plant. 49 (4): 481.
2. **Burikam, S.**, Sripichitt, P., Kositratana, W. and Attathom, S. 2002. Improved frequencies of embryogenic calli induction and plantlet regeneration in mature embryos of KDML105, an elite Thai indica rice. Thai Journal of Agricultural Science 35(1): 83-98.
3. **Burikam, S.**, Phromdaeng, S., Sripichitt, P., Kositratana, W. and Attathom, S. 2002. Investigation on proline accumulation and its alteration upon NaCl treatment in some indica rice (*Oryza sativa* L.) cultivars. Thai Journal of Agricultural Science 35(3): 281-294.
4. **Burikam, S.** and Lersrutaiyotin, R. 1993. Growth reduction of papaya plantlets for in vitro germplasm preservation. Kasetsart J. (Nat. Sci. Suppl.) 27 (5):12-14.

5. Aroonrungsikul, C., Piluek, K., Phuprompun, P., **Burikam, S.** and Chumsaengchotsakul, S. 1993. Production and verificatiion of interspecific hybrids in *Brassica* spp. Kasetsart J. (Nat. Sci. Suppl.) 27 (5):12-14.
6. Lersrutaiyotin, R.,Roongruengchanchai, N., Chinodonnirak, J., **Burikam, S.** and Wongmaneerot, M. 1993. Growth of sugarcane plantlets on media limiting concentration of inorganic nutrient and growth promotor supplement. Kasetsart J. (Nat. Sci. Suppl.) 27 (5):12-14.
7. Aroonrungsikul, C., Piluek, K., Phuprompun, P., **Burikam, S.** and Chumsaengchotsakul, S. 1992. Study on interspecific hybridization of *Brassica* spp. through in vitro culture. Kasetsart J. (Nat. Sci. Suppl.) 26 (5):18-24.
8. **Burikam, S.** and Chaiyasirisuwan, C. 1991. Effects of CO_2 enrichment and sucrose concentrations on growth of papaya shoots cultured in vitro. Kasetsart J. (Nat. Sci. Suppl.) 25 (5):5-8.
9. **Burikam, S.**, Chommalee, V., Attathom, S. and Visessuwan, R. 1988. Effect of plant growth regulators on papayas (*Carica papaya*) cultured in vitro. Kasetsart J. (Nat. Sci. Suppl.) 22 (5):1-6.
10. Sriprasertsak, P., **Burikam, S.**, Attathom, S. and Piriyasurawong, S. 1988. Determination of cultivar and sex of papaya tissues derived from tissue culture. Kasetsart J. (Nat. Sci. Suppl.) 22 (5):24-30.

CONFERENCE PRESENTATIONS

1. **Nongnapat Kunagorn**, Pissawan Chiemsombat and Sarima Sundhrarajun. 2013. An Efficient Protocol for Elimination of Canna Yellow Mottle Badnavirus (CaYMV) in Canna (*Canna indica*) Plantlets Cultured in vitro. In Abstracts of THE 2013 IN VITRO BIOLOGY MEETING- PLANT. Providence, Rhode Island, USA. 15-19 June, 2013.
2. **Nongnapat Kunagorn** and Pissawan Chiemsombat. 2012. Establishment of shoot tip culture in vitro for achieving CaYMV and CaYSV-free canna. p. 25. *In* Abstracts of The Royal Flora International Symposium 2011: The International Symposium on Orchids and Ornamental Plants. Chiangmai, Thailand. 9-12 January, 2012.
3. **Burikam, S.** 2010. Cultural Factors Affect Embryogenic Callus Formation from Anther Culture of *Asparagus officinalis* L. p. 78. *In* Abstracts of Poster Presentations "Green Plant Breeding Technologies 2010". 2-5 February 2010, Vienna, Austria.
4. **Burikam, S.** 2009. In Vitro Mass Propagation of a High Potential Biofuel Plant, *Jatropha curcas* L. *In* The International Conference: Agricultural Biotechnology for Better Living and a Clean Environment 2009 (ABIC 2009). 23–25 September, 2009, Bangkok, Thailand.

5. Hongprayoon, R., **Burikam**, **S.**, Kladpan, S. and Thongsri, W. 2009. In-House ELISA test for cymbidium mosaic virus in *Dendrobium* spp. *In* Abstracts of The ISSAAS International Congress 2008: "Agriculture for the 3 Es: Economy, Environment, and Energy". 23-27 February 2009, Bangkok, Thailand.

6. Burikam, S., Khunpet, A. and Attathom, S. 2001. Transformation of Δ^1 pyrroline-5-carboxylate synthetase (P5CS) gene into Khao Dawk Mali 105, Thai indica rice by particle bombardment, pp. 79-89. *In* Proceeding of Conference on Functional Genomics of Rice and Seed Biotechnology, 8-9 November 2001, Bangkok, Thailand.

7. **Burikam, S**., Sripichitt, P., Kositratana, W. and Attathom, S. 2000. Strategies for efficient genetic transformation of Khao Dawk Mali 105, indica Thai rice (*Oryza sativa* L.) by particle bombardment. p. 4. *In* Abstracts of The International Conference on Tropical Agriculture Technology for Better Health and Environment, 29 Nov.- 2 Dec., 2000, Kasetsart University, Kamphaeng Saen, Nakhon Pathom, Thailand.

8. **Burikam, S.**, Promdang, S., Sasritorn, S., Kositratana, W., Sripichitt, P. and Attathom, S. 1999. Proline analysis and transformation of Khao Dawk Mali 105, a Thai rice variety for stress tolerance. p. 336. *In* Abstracts of General Meeting of The International Program on Rice Biotechnology, 20-24 September 1999, Phuket, Thailand.

9. **Burikam, S.** and Attathom, S. 1997. Particle bombardment-mediated transformation with a gene encoding Δ^1 Pyrroline-5-Carboxylate Synthetase into an indica rice, Khao Dawk Mali 105. p. 328/1. *In* Abstracts of General Meeting of The International Program on Rice Biotechnology, 15-19 September 1997, Malacca, Malaysia.

10. Burikam, S., Tinjuangjun, P., Kuhapitakthum, R. and Attathom, S. 1996. Regeneration and transformation of Khao Dawk Mali 105, aromatic Thai rice. pp. 465-471. *In* Proceedings of the Third Asia-Pacific Conference on Agricultural Biotechnology: Issues and Choices, poster session, Prachuapkhirikhan, Thailand.

AWARD

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