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Education background:

BSc. (Biology) second class honor, Kasetsart University (1973-1977)
MSc. (Environmental Science), Kasetsart University (1978-1980)
MSc. (Agriculture), The University of Western Australia, Perth, Australia (1985-1988)
PhD. (Genetics), Oregon State University Corvallis, OR 97331, USA (1992-1998)

Courses taught:

1. Molecular Genetics (416553)
2. Plant Molecular Genetics (416557)
3. Intensive Genetics (416511)
4. Introduction to Population and Quantitative Genetics (416471)
5. Principle of Genetics (416311) and Laboratory in Genetics (416312)

Research interests:

Molecular Genetics (Molecular Marker Development, Application of Markers, Gene Cloning, Gene Expression)

Current Funding/Grant:

1. Intergeneric and interspecific hybridization for variety improvement in *Jatropha curcas* L. (Collaborative project PTT and KU-Biodiesel 2009-2014)
2. Genetic study in *Jatropha curcas* L. for plant improvement and role of DNA

- methylation on gene expression in *Jatropha curcas* L. (KU Research and Development Institute Research Fund, 2010-2012)
3. Genetic diversity of endangered and potentially economic aquatic plants using DNA markers (KU Research and Development Institute Research Fund, 2011-2012)
 4. Development of microsatellite markers in waterlilies, *Nymphaea* spp (KU Research and Development Institute Research Fund, 2013-2014)
 5. Searching and analysis for bacterial leaf blight resistance genes from Thailand rice germplasm (KU Research and Development Institute Research Fund, 2013-2015)

Publications:

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- Slabaugh MB., GM. Huestis, J. Leonard, JL. Holloway, C. Rosato, **V. Hongtrakul**, N. Martini, R. Toepfer, M. Voetz, J. Schell and SJ. Knapp. 1997. Sequence-based genetic markers for genes and gene families: single-strand conformational polymorphisms for the fatty acid synthesis genes of *Cuphea*. *Theor. Appl. Genet.* 94: 400 – 408.
- Hongtrakul V.**, MB. Slabaugh and SJ. Knapp. 1998. DFLP, SSCP, and SSR markers for delta 9 stearoyl- acyl carrier protein desaturases strongly expressed in developing seeds of sunflower: intron lengths are polymorphic among elite inbred lines. *Mol. Breeding* 4: 195 - 203.
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- Srifah, P., B. Pomthong, **V. Hongtrakul** and N. Sangduan. 2000. DNA polymorphisms generated by single-strand conformational polymorphism and random amplified polymorphic DNA technique are useful as tools for Thai vetiver genome analysis. *Proceedings of the Second International Conference on Vetiver: Vetiver and the Environment.* 18-22 January 2000, Petchaburi, Thailand. p. 412-416.
- Hongtrakul V.**, 2001. Protein structure of delta 9 stearoyl - ACP desaturase and delta 12 oleate desaturase genes of sunflower. *Proceeding of the 12th Genetics Seminar, Genetics: Gene Revolution Era*, 28 -30 March 2001, p.176 – 180.
- Toahsakul, M., **V. Hongtrakul** and N. Sangduen. 2001. Cytological studies of sex determination in *Cycas*. *Proceeding of the 12th Genetics Seminar, Genetics: Gene Revolution Era*, 28 -30 March 2001, p.181 - 184.
- Glingaysorn, T. and **V. Hongtrakul**. 2003. Oil contents, fatty acid compositions and development of sequence-based marker for *fatB*, acyl- acyl carrier protein (acp) thioesterase in rice. *Proceeding of the 13th Genetics Seminar, Genetics and Sustainable Development*, 5 -7 June 2003, p.197-203.
- Glingaysorn, T. and **V. Hongtrakul**. 2003. Development of Ref SSCPs (restriction endonuclease fingerprinting single-strand conformational polymorphisms) gene specific marker for stearoyl-acyl carrier protein (acp) desaturase in rice. *Proceeding of the 13th Genetics Seminar, Genetics and Sustainable Development*, 5 -7 June 2003, p.204-209.

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- Toahsakul, M., **V. Hongtrakul** and N. Sangduen. 2003. Comparative cytogenetic studies between male and female of Cycas. Proceeding of the 13th Genetics Seminar, Genetics and Sustainable Development, 5 -7 June 2003, p.370-374.
- Hongtrakul, V.**, V. Kunjoo, T. Glingaysorn and S. Tragoonrung. 2004. Genomic Study of Fatty Acids in Rice. Proceedings of the 1st International Conference on Rice for the Future, 31 August-3 September 2004, p. 95-103.
- Imtang, S., **V. Hongtrakul** and N. Sangduen. 2005. Identification of Sex-Specific DNA Marker and Biodiversity of Cycas and Zamia Using Amplified Fragment Length Polymorphism (AFLP) Techniques. Proceeding of the 14th Genetics Seminar, Genetics: From Basics to Molecular Technology, 11 -13 March 2005, p.483-489.
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- Pornsarayouth, P., **V. Hongtrakul**, S Thanisawanyangkura and N. Sangduen. 2005. Genetic Relationship of Olive (*Olea europaea* L.) Grown in Thailand Using AFLP Markers. Proceeding of the 14th Genetics Seminar, Genetics: From Basics to Molecular Technology, 11 -13 March 2005, p.477-482.
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- Kongprakhon, P., N. Sangduen, **V. Hongtrakul** and K. Namwongprom. 2005. Meiosis of vetiver germplasm in Thailand. AU J.T. 9(1):9-14.
- Bezaweletaw, K., P. Sripichitt, W. Wongyai and **V. Hongtrakul**. 2006. Genetic variation, heritability and path-analysis in Ethiopian finger millet [*Eleusine coracana* (L.) Gaertn] landraces. Kasetsart J. (Nat. Sci.) 40:322-334.
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- Bezaweletaw, K., P. Sripichitt, W. Wongyai and **V. Hongtrakul**. 2007. Cluster and principal component analyses of finger millet landraces from Ethiopia and Eritrea. Kamphaengsean Acad. J. 5(1):40-52.

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- Kanchanaketu, T., N. Sangduen, T. Toojinda and **V. Hongtrakul**. 2012. Genetic diversity analysis of *Jatropha curcas* L. based on methylation sensitive amplification polymorphism. *Genet. Mol. Res.* 11 (2): 944-955. (0.573)
- Kladmook, M., T. Kumchoo and **V. Hongtrakul**. 2012. Genetic diversity analysis and subspecies classification of Thailand rice landraces using DNA markers. *Afr. J. Biotechnol.* 11 (76): 14044-14053. (1.013)