

**Contact Details:**

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**Education:**

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|  | 2002 | PhD., Cell Biology, Nara Institute of Sciences and Technology (NAIST), Japan |
|  | 1998 | M.Sc., Cell Biology, University of Tsukuba, Japan |
|   | 1995 | B.Sc. (The Second Class Honors) Biotechnology, Mahidol University, Thailand |

**Academic Awards :**

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|  | - Global Centre of Excellent (GCOE) Program Research fellowship September 2007- March 2010, Japan. |
|   | - Japan Society for the Promotion of Science (JSPS) Fellowship September 2005-August 2007, Japan. |
|   | - King of Thailand Biomedical Fellowship, Rockefeller University September 2003- August 2005, New York, USA. |
|   | - Chancellor travel grant. June 2003, University of Helsinki, Helsinki, Finland. |
|   | - The Excellent research award, Graduate School of Biological Science, Nara Institute of Science and Technology, Japan. March 2002. |
|   | - Private Fund supported by the president of Shouryu, Japan. July 2001- March 2002. |
|   | - Grant-in–aid for science research from Ministry of Education, Culture and Science (Monbukagakusho) Japan. April 1995- March 2001. |

 **Present Employment :**

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|  | Department of Biotechnology, Faculty of Science, Mahidol University January 2011~. Lecturer |

 **Past Employments :**

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|  | - Graduate School of Biological Sciences, Nara Institute of Science and Technology, Japan. September 2007- December 2010. International researcher. |
|   | - Plant Molecular and Cellular Biology Laboratory, Nara Institute of Science and Technology, Japan. September 2005- August 2007. Postdoctoral researcher. |
|   | - Rockefeller University, Plant Molecular Biology Laboratory, New York, USA. September 2003-August 2005. Postdoctoral researcher. |
|   | - Institute of Biotechnology, University of Helsinki, Helsinki, Finland. April 2002- September 2003. Postdoctoral researcher. |
|   | - Plant Molecular and Cellular Biology Laboratory, Nara Institute of Science and Technology, Japan. April-July 2001. Teaching assistant |

 **Research Expertise :**

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|  | - Cell fate determination in plant vasculature- Cell wall formation in plants- The mechanism underlying translocation of double-stranded RNA from environment into cells |

**Academic Research Projects/Responsibilities :**

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|  | - Non-coding region and its regulatory role in gene expression control. Gene Regulation Research Laboratory, Nara Institute of Science and Technology, Japan. September 2007- March 2010. |
|  | - The role of post-translational modification in plant cell-shape determination. Plant Molecular and Cellular Biology Laboratory, Nara Institute of Science and Technology, Japan. October 2005- August 2007. |
|  | - Gene-Knockdown technology used for study the roles of novel genes. Plant Molecular Biology Laboratory, Rockefeller University, New York, USA. October 2003- August 2005 |
|   | - Cell identity in plant. Institute of Biotechnology, University of Helsinki, Helsinki, Finland. May 2002- September 2003 |
|   | - Left-right asymmetry determination in plant. Plant Molecular and Cellular Biology Laboratory, Nara Institute of Science and Technology, Japan. April 1998- March 2002 |
|   | - Identification of the promoter region of the gene required for induction of carrot somatic embryos. University of Tsukuba, Japan. April 1996- March 1998 |
|   | - Development of the biological tool used for eradication of infectious bacteria in shrimp-farming business. Department of biotechnology, Mahidol University, Thailand. April 1994- March 1995 |

**Publication lists :**

Carlsbecker A., Lee J-Y., Roberts C., Dettmer J., Lehesranta S., Zhou J., Lindgren O., Moreno M., Honkanen A., Thitamadee S., Campilho A., Bowman JL., Helariutta Y. and  Benfey PN(2010). Cell signaling by microRNA165/6 mediates a morphogenetic gradient in root. ***Nature***465(7296), 316-21.

Soyano T, Thitamadee S., Machida Y, and Chua  NH. (2008) ASYMMETRIC LEAVES2-LIKE/LATERAL ORGAN BOUNDARIES DOMAIN genes, ASL19 and ASL20, control tracheary element differentiation in Arabidopsis. ***Plant Cell*** 20(12), 3359-73

Ishida T., Thitamadee S., Hashimoto T. (2007) Twisted growth and organization of cortical microtubules.***J. Plant Research*** 120(1), 61-70.

Bonke M\*., Thitamadee S\*., Mahonen AP., Hauser MT., Helariutta Y. (2003) APL regulates vascular tissue identity in*Arabidopsis*. ***Nature*** 426, 181-186.

Thitamadee S., Tuchihara K., Hashimoto T. (2002) Microtubule basis for left-handed helical growth in *Arabidopsis*. ***Nature***417, 193-196.

Abe T\*., Thitamadee S\*., Hashimoto T. (2004) Microtubule defects and cell morphogenesis in the lefty1lefty2 tubulin mutant of *Arabidopsis thaliana*. ***Plant Cell Physiology*** 45(2), 211-220.

Furutani I., Watanabe Y., Prieto R., Masukawa M., Suzuki K., Naoi K., Thitamadee S., Shikanai T., Hashimoto T. (2000) The *SPIRAL* genes are required for directional control of cell elongation in Arabidopsis thaliana. ***Development***127, 4443-4453.

Ko S., Thitamadee S., Yang H., Ho yun C., Sage-ono K, Higashi K., Satoh S., Kamada H. (2001) Comparison and characterization of cis-regulatory regions in some embryo-specific and ABA-responsive carrot genes,*DcECPs.* *Plant****Biotechnology*** 18(1), 45-54.

\*These authors contributed equally to this work.

**Presentations :**

Department of Biology, Hong Kong University of Science and technology, May 2010, **Hong Kong**.

Vascular patterning in*Arabidopsis .*National Center for Genetic Engineering and Biotechnology (BIOTEC), September 2009, **Thailand**.

KAUST search committee interview session. November 2008, De Vere University Arms Hotel, Cambridge, **UK**.

Crop Science and Biotechnology in the 21st Century. Preliminary Symposium for the 5th International Crop Science Congress, November 2006. International Convention Center Jeju, **Korea**.

APL regulates vascular tissue identity in*Arabidopsis*. January 2005, Department of Plant Biology, Stanford University, California, **US**.

APL regulates vascular tissue identity in*Arabidopsis*. June 2003, the 7th international congress of Plant Molecular Biology, Barcelona,**Spain**.

The APL locus is required for phloem development in Arabidopsis root. The 13th InternationalConference on Arabidopsis research, June 2002, Palacio de Exposiciones y Congresos, Seville,**Spain**.

Microtubule basis for left-handed helical growth in *Arabidopsis*. East meets West annual meeting, May 2002. Institute of Biotechnology, Helsinki, **Finland**.

Characterization of Arabidopsis mutants with left-handed spiral. The 11th InternationalConference on Arabidopsis research, June 2000, University of Wisconsin-Madison, **US**.

Characterization of Arabidopsis mutants with left-handed spiral. The 40th Annual Meeting of the Japanese Society of Plant Physiologists (JSPP), March 2000, Nagoya, **Japan**.