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Educational background

1998-2002 B.S. in Biology (Graduate with honors), California Institute of Technology, Pasadena, CA
2002-2008 Ph.D. in Genetics, University of Wisconsin-Madison, Madison, WI
2008 Postdoctoral Researcher, Laboratory of Genetics, University of Wisconsin-Madison, Madison, WI
2009-2010 Postdoctoral Researcher, Joint BioEnergy Institute, Lawrence Berkeley National Laboratory, Emeryville, CA

Courses taught

- Laboratory of genetics
- Plant genetics

Research interests

- Genetic engineering of algal strains for biofuel production
- Nutrient recycling upon starvation in algae

Funding/Grant

- Preproposal Research Fund, Faculty of Science, Kasetsart University
- TISTR-PTT

Publications

1. Thompson, A.R., J.H. Doelling, **A. Suttangkakul**, and R.D. Vierstra (2005). Autophagic nutrient recycling in *Arabidopsis thaliana* directed by the ATG8 and ATG12 conjugation pathways. *Plant Physiol.* 138(4): 2097-2110.
2. Phillips, A.R., **A. Suttangkakul** and R.D. Vierstra. (2008) The ATG12-conjugating enzyme ATG10 is essential for autophagic vesicle formation in *Arabidopsis thaliana*. *Genetics.* 178(3):1339-1353.
3. Chung, T., **A. Suttangkakul**, and R.D. Vierstra (2009). The ATG autophagic conjugation system in maize: ATG transcripts and abundance of the ATG8-lipid adduct are regulated by development and nutrient availability. *Plant Physiol.* 149(1):220-34
4. Harholt, J., **A. Suttangkakul**, and H.V. Scheller (2010). Biosynthesis of pectin. *Plant Physiol.* 153(2):384-95
5. **Suttangkakul, A.**, F. Li, T. Chung, and R.D. Vierstra (2011) The ATG1/ATG13 protein kinase complex is both a regulator and a target of autophagic recycling in *Arabidopsis*. *Plant Cell* 23(10):3761-79
6. Peterson P.D., J. Lau, B. Ebert, F. Yang, Y. Verhertbruggen, J.S. Kim, P. Varanasi, **A. Suttangkakul**, M. Auer, D. Loque, H.V. Scheller (2012) Engineering of plants with improved properties as biofuels feedstocks by vessel-specific complementation of xylan biosynthesis mutants. *Biotechnol Biofuels.* 5(1):84