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Department of Plant Pathology,
Bangkhen, Bangkok 10900 Thailand

Oomycetes-Molecular Biology Laboratory

Under the direction of

Dr. Wiphawee Leesutthiphonchai, Ph.D. (Plant Pathology)

University of California, Riverside, U.S.A.

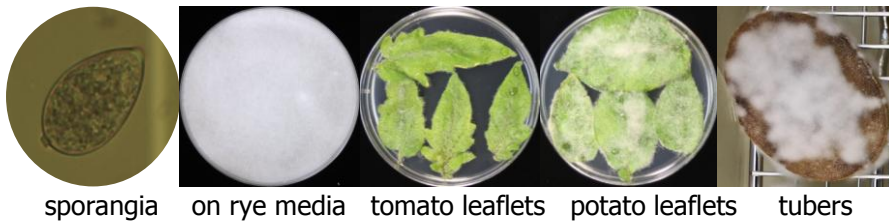
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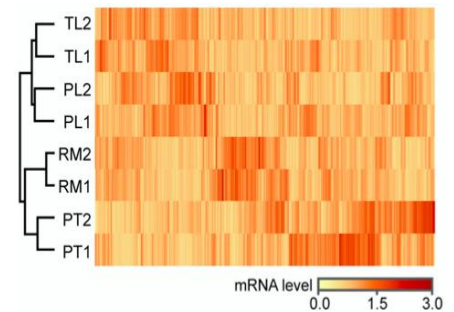
Research Interest

- ❑ Plant diseases caused by oomycetes and fungi
- ❑ Biology and sporulation of *Phytophthora*
- ❑ Molecular genetics of *Phytophthora*

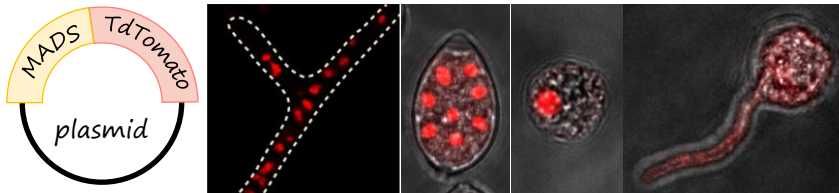
Study of *P. infestans* sporangia from media and plants



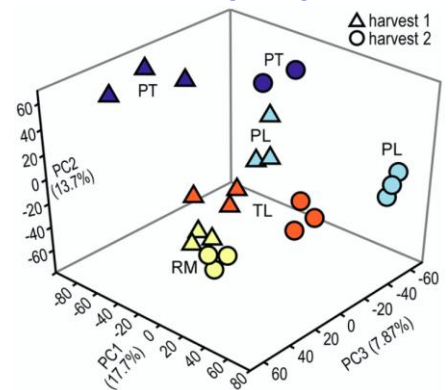
RNA-seq of sporangia



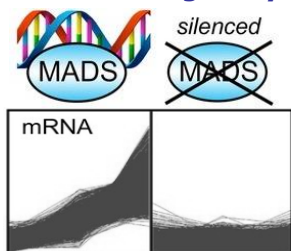
Subcellular localization of the protein of interest with fluorescence



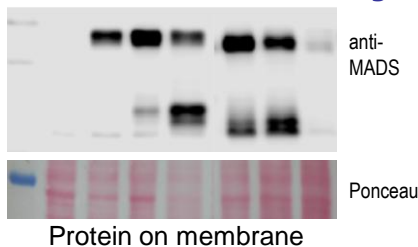
Principle Component Analysis of RNA-seq samples



Gene silencing study



Protein detection in life stages



Publications

Leesutthiphonchai, W., and Judelson, H.S. 2019. *Phytophthora infestans* sporangia produced in artificial media and plant lesions have subtly divergent transcription profiles but equivalent infection potential and aggressiveness. *Molecular Plant-Microbe Interactions* 32(9):1077-1087.

Vu, A.L.*, **Leesutthiphonchai, W.***, Ah-Fong, A. M. V.*, and Judelson, H.S. 2019. Defining transgene insertion sites and off-target effects of homology-based gene silencing informs the application of functional genomics tools to *Phytophthora infestans*. *Molecular Plant-Microbe Interactions* 32(8):915-927. *authors contributed equally

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คณะเกษตร, มหาวิทยาลัยเกษตรศาสตร์

ภาควิชาโรคพืช

เลขที่ 50 งามวงศ์วาน ลาดยาว, กรุงเทพฯ 10900



ห้องปฏิบัติการโรคพืชที่เกิดจากเชื้อราและ oomycetes

ภายใต้การดูแลโดย

ดร.วิภาวี ลีสุทธิพรชัย, Ph.D. (Plant Pathology)

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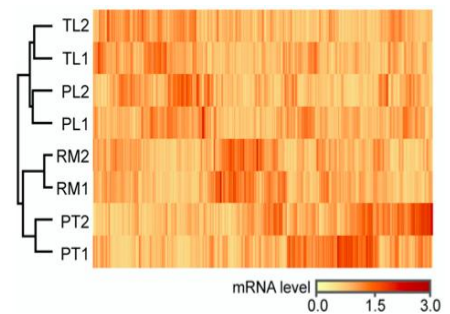
งานวิจัย

- ❑ โรคพืชที่เกิดจากเชื้อราและ oomycetes
- ❑ ชีววิทยาและการสร้างสปอร์ของเชื้อ *Phytophthora*
- ❑ อณูพันธุศาสตร์ของเชื้อ *Phytophthora*

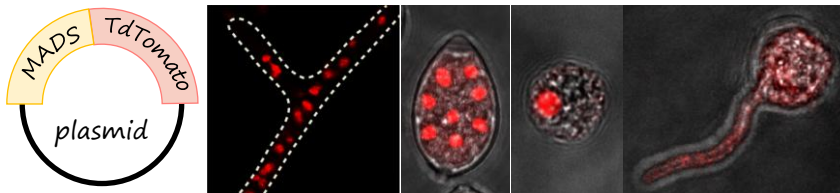
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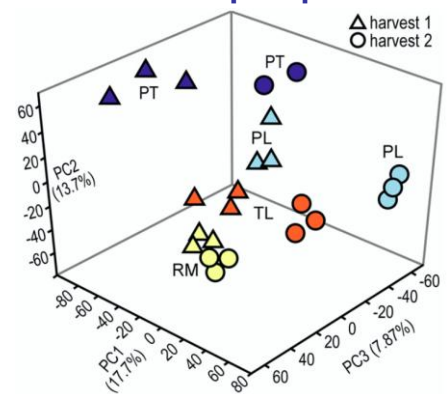
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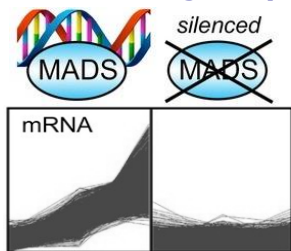
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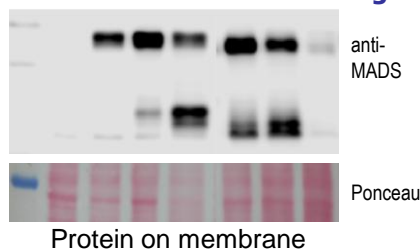
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ผลงานตีพิมพ์

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