



Australian Government
Department of Agriculture
and Water Resources



Research **Australian Aid** 



Workshop on the Identification of Downy Mildews (Oomycetes) in South-East Asia

Chiang Mai University, Chiang Mai, Thailand
29 January – 2 February 2018

Workshop Program

Day 1		
Monday 29 January 2018	9.00 – 9:30 am	Registration
	9:30 – 10:00 am	Opening ceremony Opening by either Dean of Faculty of Agriculture, Associate Professor Dr Nuttha Potapohn Head of Dept of Entomology and Plant Pathology, Assist. Prof. Dr Angsana Akarapisan Dr Ilona Stobutzki, Australian Embassy Dr Lum Keng Yeang, ASEANET
	10.00 – 10:30 am	Workshop introduction, context and overview [Prof Roger Shivas]
	10:30 – 11:00 am	Morning tea
	11:00 – 12:30 pm	Participants will be invited to introduce themselves, identify the agencies for which they work and describe their work. (5 mins for each participant)
	12:30 – 1:30 pm	Lunch
	1:30 – 3:00 pm	Introduction to the downy mildews. Symptoms, biology and importance. [Prof Mal Ryley]
	3:00 – 3:15 pm	Afternoon tea
	3:15 – 4:15 pm	Best practice for field collections of downy mildew samples. [Prof Mal Ryley, Prof Roger Shivas]
	7:00 – 10:00 pm	Official Dinner Old Chiang Mai Cultural Center

Tuesday 30
January 2018

Day 2 – Field Trip

8:30 am – 4:30 pm	Visit maize plantations and Sun Sweet Co.Ltd. in Mae Wang District Visit Monkey Farm (no monkeys) Travel in 3 vans. Lunch at Tweechol Botanic garden [Dr Chanintorn Doungsa-ard, Miss Suttinee Likhitrakulrung, Mr. Juggapong Tongnok]
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Wednesday 31 January 2018

Day 3

9:00 – 10:30 pm Laboratory 1	Identification of downy mildews by morphology. [Prof Mal Ryley] Examination of downy mildews, including samples collected on the field trip and reference specimens.
10:30 – 11:00 am	Morning tea
11:00 – 12:30 pm continued examination of downy mildews samples and specimens.
12:30 – 1:30 pm	Lunch
1:30 – 3:00 pm	Best practice for the preservation of downy mildew specimens and capture of specimen collection records and associated data. Specimens collected on the field trip will be preserved as herbarium specimens. [Dr Chanintorn, Prof Mal Ryley, Prof Roger Shivas, Yu Pei Tan]
3:00 – 3:30 pm	Afternoon tea
3:30 – 5:00 pm	Downy mildews in south-east Asia based on country records and evidence in the literature. Participants will also be asked to indicate what knowledge and evidence they have of downy mildews in their own countries. This session will be run in small groups that report back to the workshop.

Thursday 1 February 2018

Day 4

9:00 – 10:30 am	An introduction to molecular methods used in the identification and classification of fungi. This session will cover basic principles of DNA isolation, amplification and sequence analysis. [Yu Pei Tan]
10:30 – 11:00 am	Morning tea
11:00 – 12:30 pm	Best practice for the identification of downy mildews by molecular methods. This session will include a basic introduction to phylogenetic analysis. [Yu Pei Tan]
12:30 – 1:30 pm	Lunch
1:30 – 3:00 pm continued.... Best practice for the identification of downy mildews by molecular methods. This session will include the analysis of data obtained from some downy mildews in south-east Asia. [Yu Pei Tan]
3:00 – 3:30 pm	Afternoon tea
3:30 – 5:00 pm	Towards a resolution of the taxonomy of the downy mildews on maize, sorghum and sugarcane in south-east Asia. [Dr Chanintorn, Prof Mal Ryley, Prof Roger Shivas, Yu Pei Tan]

Friday 2 February 2018

Day 5

9:00 – 10:30 am	General discussion about future projects. How can we collaborate in the immediate future to get a better understanding of the identity of the downy mildews that threaten crops in south-east Asia?
10:30 – 11:00 am	Morning tea
11:00 – 12:00 pm	Closing remarks Presentation of certificates Workshop evaluation [Dr Soetikno]
12:00 – 12:30	Workshop close
12:30 – 1:30 pm	Lunch
from 1:30	Optional visit to Doi Suthep temple, a historical landmark in Chiang Mai



A Workshop organized by DOA Thailand and in collaboration with ASEANET