

**DIVERSITY OF FUNGI CAUSING TAR SPOT  
DISEASE IN CHIANG MAI PROVINCE**

**NISACHON TAMAKAEW**

**MASTER OF SCIENCE  
IN PLANT PATHOLOGY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright© by Chiang Mai University  
All rights reserved

**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
JUNE 2017**

**DIVERSITY OF FUNGI CAUSING TAR SPOT DISEASE  
IN CHIANG MAI PROVINCE**

**NISACHON TAMAKAEW**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN PLANT PATHOLOGY**

**GRADUATE SCHOOL, CHIANG MAI UNIVERSITY**

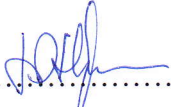
**JUNE 2017**


**DIVERSITY OF FUNGI CAUSING TAR SPOT DISEASE  
IN CHIANG MAI PROVINCE**

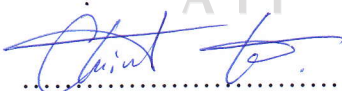
NISACHON TAMAKAEW

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN PLANT PATHOLOGY


**Examination Committee :**

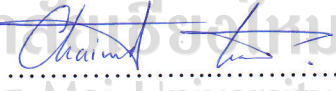
  
.....Chairman  
(Assoc. Prof. Dr. Kevin David Hyde)

  
.....Member  
(Lect. Dr. Ratchadawan Cheewangkoon)

  
.....Member  
(Assoc. Prof. Dr. Chaiwat To-anun)

**Advisory Committee :**

  
.....Advisor  
(Lect. Dr. Ratchadawan Cheewangkoon)

  
.....Co-advisor  
(Assoc. Prof. Dr. Chaiwat To-anun)

30 June 2017

Copyright © by Chiang Mai University

## ACKNOWLEDGEMENTS

I would like to thank Dr. Ratchadawan Cheewangkoon and Assoc. Prof. Dr. Chaiwat To-anun for their invaluable guidance, supervision, immense knowledge and constant encouragement to complete this thesis.

I am grateful to Assoc. Prof. Dr. Kevin D. Hyde for his advice and invaluable comments to improve my research work. My friends and colleagues at Chiang Mai University are thanked for their encouragement and moral support throughout the period of this research.

Finally, the biggest thanks and love go to my father, my mother and sister for all their encouragements with love throughout the years of my study.

Nisachon Tamakaew

The seal of Chiang Mai University is a circular emblem. In the center is a detailed illustration of an elephant standing and facing left. Above the elephant is a traditional Thai umbrella (parasol). The entire central design is enclosed within a circular border. The border contains the university's name in Thai script at the top and 'CHIANG MAI UNIVERSITY 1964' in English at the bottom.

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright© by Chiang Mai University  
All rights reserved