

**TAXONOMY AND ECOLOGY OF THE LICHEN  
FAMILY PERTUSARIACEAE IN THAILAND**

**SUREEPORN JARIANGPRASERT**

**DOCTOR OF PHILOSOPHY  
IN BIOLOGY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright © by Chiang Mai University

All rights reserved

**GRADUATE SCHOOL  
CHIANGMAI UNIVERSITY**

**AUGUST 2005**

**ISBN 974-9886-90-9**

**TAXONOMY AND ECOLOGY OF THE LICHEN  
FAMILY PERTUSARIACEAE IN THAILAND**

**SUREEPORN JARIANGPRASERT**

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILMENT OF THE REQUIRMENTS  
FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN BIOLOGY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright © by Chiang Mai University

All rights reserved

**GRADUATE SCHOOL  
CHIANGMAI UNIVERSITY**

**AUGUST 2005**

**ISBN 974-9886-90-9**

**TAXONOMY AND ECOLOGY OF THE LICHEN FAMILY  
PERTUSARIACEAE IN THAILAND**

**SUREEPORN JARIANGPRASERT**

**THIS THESIS HAS BEEN APPROVED  
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN BIOLOGY**

**EXAMINING COMMITTEE**

.....CHAIRPERSON

Assoc. Prof. Dr. Vilaiwan Anusarnsunthorn

.....MEMBER

Asst. Prof. Dr. Kansri Boonpragob

.....MEMBER

Assoc. Prof. Abhinya Plikomol

.....MEMBER

Lect. Dr. Wanaruk Saipunkaew

.....MEMBER

Lect. Dr. Stephen Elliott

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright © by Chiang Mai University  
All rights reserved

25 August 2005

© Copyright by Chiang Mai University

## ACKNOWLEDGEMENTS

I particularly wish to thank my supervisor Assoc. Prof. Dr. Vilaiwan Anusarnsunthorn to give me an opportunity of this research. I very much appreciate Dr. Alan William Archer at New South Wales for his valuable guidance, intensive and continuous help. I also offer my deepest gratitude to Prof. Dr. John Alan Elix at Australian National University for his authentic analysis and friendliness. I am also very much indebted to Asst. Prof. Dr. Kansri Boonpragob at Ramkhamhaeng University who is my inspiration to study lichens, her kind offer and friendliness over years. Special thanks to Asst. Prof. Dr. Natsurang Homchantara for her unpublished information while working at Ramkhamhaeng University. Many thanks present to Prof. Dr. Ming Ju Lai at Tunghai University for his assistance in early months of my study.

I would like to acknowledge the colleagues of Ramkhamhaeng Lichen Unit Research for their friendship and the loan of specimens. Thanks to Dr. Pheeya Amatawiwat at Prince of Songkla University and Herbarium, Biology Department, Chiang Mai University and British History Museum for specimens. I thank the curators and directors of the following herbaria for checking identified specimens: CANB, CHR, CMN, G, H, MSC, NSW, OTA, WELT, Z+ZT. The following names are remembered of their kindness concerning this study; Prof. Dr. T. Ahti, Dr. O. Vitikainen, Dr. P. M. McCarthy (ABRS, Canberra), Dr. J. Curnow, Dr. E. Brown, Assoc. Prof. Dr. B. Sampson Dr. P. Brownsey, Dr. T. Lumbsch, Dr. I. Schmitt, Dr. A. Aptroot, Dr. I. Breviser, Dr. D. J. Galloway, Dr. A. Jiff, Prof. Dr. P. Bannister and J. Bannister (Dunedin, NZ), Dr. P. Clerc, Prof. Dr. R. Honegger, Dr. I. Brodo, Dr. M. I. Messuti, Mr. P. K. Wong and Dr. A. Fryday.

I also thank the Royal Forestry Department for permission and forestry officials to help collecting of specimens. Sincere thanks go to Mrs. Budsabong Kuntalue at the Electron Microscopy Research and Service Center, Faculty of Science, Chiang Mai University and Ms. Passapan Luangphai at Biotechnology, Maejo University for their works on scanning electron microscope and electron microscopy facilities.

This work was supported by a generous grant from The Royal Golden Jubilee  
PhD. Program, The Thailand Research Fund.

Sureporn Jariangprasert



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright © by Chiang Mai University  
All rights reserved