

REFERENCES

- Ahmad N, Sarbhoy, AK, Kamal. 1998. A new variety and two new species of powdery mildews from India. *Mycological Research* 102: 30–32.
- Alexopoulos, C.J., Mims, C.W. and Blackwell, M. 1996. *Introductory Mycology*. 4th edition. John Wiley and Sons, NY.
- Amano, K. 1986. Host range and geographical distribution of the powdery mildew fungi. Tokyo: Japan Scientific Societies Press. 741 p.
- Arnaud, G. 1921. Etude sur les champignons parasites. *Ann. Epiphyt.* 7: 1-116.
- Bary de, A. 1863. Über die Fruchtkorperentwicklung der Ascomyceten. Leipzig.
- Beeley, F. 1933. *Oidium heveae*: report on the 1933 outbreak of Hevea leaf mildew . J Rubber Res Inst Malaya 5: 5-13.
- Bitancourt, A.A. 1938. Brazil: Diseases of cultivated or useful plants, observed in the state of Sao Paulo. *Intern Bull Plant Prot* 12: 49-53.
- Blumer, S. 1922. Spezialisation der Erysiphe horridula Lév. Auf Boraginaceen. Zentralbl. Bakteriol. Parasitenkd., Abt. 2, 55: 480-506.

- Blumer, S. 1933. Die Erysiphaceen Mitteleuropas unter Beitr. Krypt. –Fl. Schweiz 7 (1): 1-483.
- Blumer, S. 1967. Echte Mehltäupilze (Erysiphaceae). Fischer: Jena.
- Boesewinkel, H. J. 1977. Identification of Erysiphaceae by conidial characteristics. Rev.Mycol. 41: 493-507.
- Boesewinkel, H. J. 1980. The morphology of the imperfect states of powdery mildews (Erysiphaceae). Bot. Rev. 46: 167-224.
- Boesewinkel, H.J. 1980a. The morphology of the imperfect states of powdery mildews (Erysiphaceae). Botanical Review 46: 167-224.
- Boesewinkel, H.J. 1981. A first recording of rose mildew, *Sphaerotheca pannosa*, on three species of *Eucalyptus*. Nova Hedwigia 34: 721-730.
- Bouwens, H. 1927. Weitere Untersuchungen über Erysipheen. Med. Phytopathol. Lab. W.C. Scholten 10: 3-31.
- Braun, U. 1982b. Morphological studies in the genus Oidium (III). Zbl. Mikrobiol. 137-324.
- Braun, U. 1982c. Morphological studies in the genus Oidium (II). Zbl. Mikrobiol. 138-152.
- Braun, U. 1986. Taxonomic notes on some powdery mildews of various genera. Mycotaxon 25(1): 259-269.

Braun, U. 1987. A monograph of the Erysiphales (powdery mildews). Nova Hedw.

98, 1-700.

Braun, U. 1995. The powdery mildews (Erysiphales) of Europe. Gustav Fischer,

Jena, New York. 337 p.

Braun, U. and Takamatsu, S. 2000. Phylogeny of *Erysiphe*, *Microsphaera*,

Uncinula (Erysipheae) and *Cystotheca*, *Podosphaera*, *Sphaerotheca*

(Cystothecaceae) inferred from rDNA ITS sequences-some taxonomic consequences. Schlechtendalia 4. 1-33.

Braun, U., Shishkoff, N. and Takamatsu, S. 2001. Phylogeny of *Podosphaera* set.

Sphaerotheca subsect. *Magnicellulatae* (*Sphaerotheca fuliginea* auct. s. lat.)

inferred from rDNA ITS sequences- a taxonomic interpretation.

Schlechtendalia. 7. 45-52.

Braun, U., Cook, R. T. A., Inman, A. J. and Shin, H. D. 2002. The Taxonomy of the

Powdery Mildew Fungi. 2. 13-55.

Bruns, T. D., White, T. J. and Tayler, J. W. 1991. Fungal molecule systematics.

Annu. Rev. Ecol. Syst. 22: 525-564.

Bushnell, W.R., Gray, J. 1978. Accumulation of solutes in relation to the structure

and function of haustoria in powdery mildews. In: Spencer DM (ed) The

powdery mildews. Academic Press, New York, 183-235.

Capretti, C. 1961. Oidio di *Bixa orellana* in Venezuela: *Oidium bixae* Viegas. Riv

Agric Subtrop Trop 55: 13-19.

Chen, Z. X., Gao, R. X., Luo, S. B. and Liu, B. C. 1984. New species of powdery mildews from Wuyishan. Acta Mycol. Sinica 3(2): 75-80.

Clements, F.E. and Shear, C.L. 1931. The genera of Fungi. 2nd ed. H.W. Wilson, New York.

Cook, R. T. A., Inman, A. J. and Billings, C. 1997. Identification and classification of powdery mildew anamorphs using light and scanning electron microscopy and host range data. Mycol. Res. 101: 975-1002.

Daidou, T., Ito, S. 2001. Damage by powdery mildew in *Acacia* sp. Occurrence of powdery mildew in the nursery and the plantation in Vietnam. Chubu For Res 49: 85-88 (in Japanese).

de Bary, A. and Woronin, M. 1870. Beiträge zur Morphologie und Physiologie der Pilze. Abh. Senkenb. Naturforsch. Ges. 7: 1-95.

de Candolle, A.P. 1805. Flore française 2. J.B. Garnery, Paris.

de Candolle, A.P. 1815. Flore française 6. J.B. Garnery, Paris.

Dörfelt, H., Ali, N., and Schröder, M. B. 1989. Studien zur Fruchtkörperentwicklung und Ultrastruktur von *Sphaerotheca fusca* (Ascomycetes/Erysiphales). Flora 183: 39-55.

- Edwards, H.H., and Allen, P.J. 1970. A fine structure study of primary infection process during infection of barley by *Erysiphe graminis* f.sp. *hordei*. *Phytopathology* 60: 1504-1509.
- Ellingboe, A.H. 1972. Genetics and physiology of primary infection by *Erysiphe graminis*. *Phytopathology* 62: 401-406.
- Falloon, R. E., Sutherland, P. W. and Hallett, I. C. 1989. Morphology of *Erysiphe pisi* on leaves of *Pisum sativum*. *Can. J. Bot.* 67: 3410-3416.
- Felsenstein, J. 1985. Confidence limits on phylogenies; an approach using the bootstrap. *Evolution* 39: 783-791.
- Fischer, R. 1957. Abhängigkeit der Konidiengröße des Goldregenmehltaus vom Alter der befallenen Blätter. *Sydowia*, Beih. 1: 202-209.
- Foex, E. 1912. Les "Fibrosin-Körper" de Zopf et leurs relations avec les corpuscules mettachromatiques. *C.R. Acad. Sci. Paris* 155: 661-662.
- Foex, E. 1925. Notes sur les Erysiphacées. *Bull. Soc. Mycol. Fr.* 40:236-243.
- Fresenius, G. 1852. Beitrage zur Mykologie, Heft 2. Frankfurt a. M.Fries, E. M. (1829) *Systema mycologicum* 3:1. Greifswald.
- Gordon, C. C. 1966. A reinterpretation of the ontogeny of the ascocarps of species of the Erysiphaceae. *Am. J. Bot.* 53: 652-662.

- Gorter, G. J. M. A. and Eicker, A. 1985. Two previously undescribed *Oidium* species from South Africa. *Mycotaxon* 22: 39-42.
- Gorter, G. J. M. A. 1988. Die Suid-Afrikaanse Erysiphaceae (Meeldouswamme). *Ann. Univ. Stellenbosch, R. A3*, 3: 1-64.
- Hanlin, R. T., Tortolero, O. 1984. An unusual tropical powdery mildew. *Mycologia* 76, 439-442.
- Harkness, H. W. 1886. New species of Californian fungi. *Bulletin of the California Academy of Sciences* 1: 29-47.
- Hawksworth, D. L., Kirk, P. M., Sutton, B. C. and Pegler, D. N. 1995. Aninsworth and Bisby' s dictionary of the fungi. 7th ed. Kew, UK: CAB International. 616 p.
- Heluta, V., Takamatsu, S., Voytyuk, S., Shiroya, Y. 2009. *Erysiphe kenjiana* (Erysiphales), a new invasive fungus in Europe. *Mycological Progress* 8. 367-375.
- Hirata, K. 1942. On the shape of the germ tubes of Erysiphaceae. *Bull. Chiba Coll. Hortic.* 5: 34-49.
- Hirata, K. 1955. On the shape of the germ tubes of Erysiphaceae (II). *Bull. Fac. Agric. Niigata Univ.* 7: 24-36.

Hirata, K. 1966. Host range and geographical distribution of the powdery mildews.

Fac. Agr. Niigata Univ. Niigata.

Hirata, T. and Takamatsu, S. 1996. Nucleotide sequence diversity of rDNA internal transcribed spacer extracted from conidia and cleistothecia of several powdery mildew fungi. *Mycoscience* 37: 283-288.

Hirata, T., Cunningham, J. H., Paksiri, K., Limkaisang, S., Shishkoff, N., Grigaliunaite, B., Sato, Y., and Takamatsu, S. 2000. Evolutionary analysis of subsection *Magnicellulatae* of *Podosphaera* section *Sphaerotheca* (*Erysiphales*) based on the rDNA internal transcribed spacer sequences with special reference to host plants. *Can. J. Bot.* 78: 1521-1530.

Hodges, C. S. 1985. Hawaiian forest fungi VI. A new species of *Brasiliomyces* on *Sapindus oahuensis*. *Mycologia* 77: 977-981.

Homma, Y. 1937. Erysiphaceae of Japan. *J. Fac. Agric. Hokkaido Imp. Univ.* 38: 183-461.

Hosagoudar, V. B. 1984. *Oidium braunii* sp. nov. from Coimbatore, Tamil Nadu, India. *Sydowia* 37: 50-52.

Hughes, S. J. 1953. Conidiophores, conidia, classification. *Can. J. Bot.* 31: 577-659.

Ito, S. 1915. Typhulochaeta, a new genus of Erysiphaceae, Bot. Mag. Tokyo 29: 15-22.

Jarvis, W. R. 1964. Thermal and translocated induction of endophytic mycelium in two powdery mildews. Nature 203: 895.

Kawabe, Y., Kamizore, S., Aihara, H. 1998. Nursery diseases in the Reforestation and Extention Project in the Northeast of Thailand by JICA (Japan International Cooperation Agency) and RFD (Royal Forest Department, Thailand). For Pests 47: 3-9.

Kendrick, B. 1971. Taxonomy of Fungi Imperfecti. University of Toronto Press, Toronto.

Khodapast, S. A., Takamatsu, S. and Hedjaroude, G. A. 2001. Phylogenetic structure of the genus *Leveillula* (*Erysiphales: Erysiphaceae*) inferred from the nucleotide sequences of the rDNA ITS region with special reference to the *L. taurica* species complex. Mycl. Res. 105(8): 909-918.

Kiss, L., Cook, R.T.A., Saenz, G. S., Cunningham, J.H., Takamatsu, S., Pascoe, I., Bardin, M., Nicot, P.C., Sato, Y., Rossman, A. Y. 2001. Identification of two powdery mildew fungi, *Oidium neolycopersici* sp. nov. and *O. lycopersici*, infecting tomato in different parts of the world. Mycol Res 105: 684-697.

- Kothari, K. L., Bhatnagar, M. L. and Naik, S. M. 1965. An interesting powdery mildew on *Tectona grandis* from Rajasthan. University of Udaipur Research Studis 3: 149-150.
- Kuo, K.C., Hsieh, W.H., Leu, L.S. 1992 – *Brasiliomyces cyclobalanopsidis* sp. nov., a new powdery mildew on *Cyclobalanopsis glauca*. Mycological Research 96, 702–703.
- Kusaba, M., Tsuge, T. 1995. Phylogeny of *Alternaria* fungi known to produce host-specific toxins on the basis of variation in internal transcribed spacers of ribosomal DNA. Curr Genet 28: 491-498.
- Leveille, J. H. 1851. Organization et disposition methodique des especes qui composent le genre *Erysiphe*. Ann. Sci. Nat., bot., 3 ser., 15: 109-179.
- Limkaisang, S., Cunningham, J.H., Liew, K.W., Salleh, B., Sato, Y., Divarangkoon, R., Fangfuk, W., To-anun, C., Takamatsu, S., 2006. Molecular phylogenetic analyses reveal a close relationship between powdery mildew fungi on some tropical trees and *Erysiphe alphitoides*, an oak powdery mildew. Mycoscience 47: 327-335.
- Linnaeus, C. 1753. Species plantarum. Tomus I. Impensis Laurentii Salvii, Holmiae.
- Luttrell, E. S. 1951. Taxonomy of the Pyrenomycetes. Univ. Missouri Stud. 24: 1-120.

- Marasas, W. F. O. 1966. New species of Ascomyces and a new genus of *Sphaeropsidaceae* from Transvaal. Bothalia Porto Rico Virgin Isl. 8(1): 1-208.
- Mitra, M., Mehta, P.R. 1938. Some leaf diseases of *Hevea brasiliensis* new to India. Indian J Agric Sci 8: 185-188.
- Mori, Y., Sato, Y. and Takamatsu, S. 2000. Evolutionary analysis of the powdery mildew fungi using nucleotide sequences of the nuclear ribosomal DNA. Mycologia 92(1): 74-93.
- Narayanaswamy, P. and Ramakrishnan, K. 1969. Powder mildews of Coimbatore, Madras State. The Madras Univ. Journ. 1967-68, 37-38: 84-99.
- Nakata, K. and Takimoto, S. (1928). List of diseases of cultivated planrs in Korea. Bull. Agric. Exp. Stat. Korea. 15: 1-146.
- Neger, F. W. 1902. Beiträge zur Biologie der Erysipheen. 2. Mittheilung. Flora 90: 221-272.
- Nixon, K. C. 1999. The parsimony Ratchet, a new method for rapid parsimony analysis. Cladistics 15: 407-414.
- Nomura, Y. 1997. Taxonomic Study of Erysiphacea of Japan. Yokendo Ltd., Tokyo. 281 pp.
- Park, M. 1933. Citrus mildew. Trop Agric (Colombo) 80: 321-322.

- Penrose, L. J. 1983. Powdery mildew of apple. Agfact No. 31. Department of Agriculture, New South Wales, Australia.
- Peregrine, W. T., Siddigi, M. A. 1972. A revised and annotated list of plant diseases in Malawi. Phytopathological Papers No. 16.
- Petch, T. 1915. Citrus mildew. Phytopathology 5: 350-352.
- Saenz, G. S., Taylor, J. W. and Gargas, A. 1994. 18S rRNA gene and sequences and supraordinal classification of the Erysiphales. Mycologia 86: 212-216.
- Saenz, G. S. and Taylor, J. W. 1999. Phylogeny of the Erysiphales (powdery mildews) inferred from internal transcribed spacer (ITS) ribosomal DNA sequences. Can. J. Bot. 77: 150-169.
- Salmon, E. 1900. A monograph of the Erysiphaceae. Men. Torrey Bot. Club 9: 1-292.
- Salmon, E. 1906. On *Oidiopsis taurica*. an endophytic member of the Erysiphaceae. Ann. Bot. 20: 187-200.
- Salmaon, E. 1907. Notes on some species of Erysiphaceae from India. Ann. Myc. 5: 473-479.
- Sawada, K. 1914. The Erysiphaceae studied from its conidal stage. (In Japanese) Special; Bulletin Agricultural Station, Formosa 9: 1-102.

- Sawada, K. 1927. Classification of the genus *Erysiphe* from Taiwan based on conidial stages. (In Japanese.) Bull. Agric. Gov. Res. Inst. Formosa 24: 1-55.
- Schlechtendal, D. J. L. 1819. Anhang zu der Abhandlung des Herrn Dr. Wallroth über das Genus *Alphitomorpha*. Verh. Ges. Naturf. Fr. Berlin 1: 46-51.
- Schmidt, E. 1913. Über die Formen der *Erydiphe polygoni*. Mycol. Zentralbl. 3: 1-2.
- Semangun, H. 1992. Host index of plant diseases in Indonesia. Gadjah Mada University Press, Yogyakarta, Indonesia.
- Shaw, D. E. 1967. Powdery mildew of rubber in Papua, Papua and New Guinea. Agric J 19: 140-146.
- Shin, H. D. 1988. Erysiphaceae of Korea. Ph. D. Thesis, Seoul National University, Seoul, Korea. 305 pp.
- Shin, H. D. 2000. Erysiphaceae of Korea. Nat. Inst. Agric. Sci. Tech., Suwon, Korea. 320 pp.
- Shin, H. D. and Zheng, R. Y. 1998. Anamorphic morphology of Uncinula and allied genera (I). Mycotaxon 66: 243-266.
- Shink, H. D. and La, Y. J. 1993. Morphology of edge lines of chained immature conidia on conidiophores in powdery mildew fungi and their taxonomic significance. Mycotaxon 66: 445-451.

- Sikes, D. S., Lewis, P. O. 2001. Beta software, version 1. PAUPRat: PAUP* implementation of the parsimony ratchet. Distributed by the authors.
- Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs, USA.
- Smith, C. G. 1970. Production of powdery mildew cleistocarps in controlled environment. Trans. Br. Mycol. Soc. 55(3): 355-365.
- Steinmann, A. 1925. De ziekten en plagen van *Hevea brasiliensis* in Nederlandsch-Indie, Buitenzorg Archipel Drukcesij, Buitenzorg, 90-92.
- Swofford, D. L. 2002. PAUP*: Phylogenetic Analysis Using Parsimony (and Other Methods) 4.0b10. Sinauer, Sunderland, MA.
- Tai, F. L. 1946. Further studies on the Erysiphaceae of China. Bull. Torrey bot. Club 73: 108-130.
- Takamatsu, S., Hirata, T. and Sato, Y. 1998. Phylogenetic analysis and predicted secondary structures of the rDNA internal transcribed spacer of the powdery mildew fungi (Erysiphaceae). Mycoscience 39: 441-453.
- Takamatsu, S., Hirata, T., Sato, Y. and Nomura, Y. 1999. Phylogenetic relationships of *Microsphaera* and *Erysiphe* section *Erysiphe* (powdery mildews) inferred from the rDNA ITS sequences. Mycoscience 40: 259-268.

- Takamatsu, S., Hirata, T. and Sato, Y. 2000. A parasitic transition from tree to herbs occurred at least two time in tribes Cystothecae (Erysiphaceae): evidence from nuclear ribosomal DNA. Mycol. Res. 104(11): 1304-1311.
- Takamatsu, S., Kano, Y. 2001. PCR primers useful for nucleotide sequencing of rDNA of the powdery mildew fungi. Mycoscience 42: 135-139.
- Tamayo, B.P., Pordesino, A. N. 1959. Occurrence of powdery mildew of citrus in the Philippines. Philipp Agric 43: 236-239.
- Tamit, M. H. 2003. List of alien species that been identified as harmful, invasive or pests and their impacts. In: The prevention and management of invasive alien species: forging cooperation through South and Southeast Asia: national reports and directory of resources. The Global Invasive Species Programme, Cambridge.
- Tanaka, K. 1986. Some problems of forest pests and diseases in Thailand (in Japanese). For Pests 35: 21-28.
- To-anun, C., Sunawan, A., Limkaisang, S., Khom-un, S., Sato, Y., and Takamatsu, S. 2002. New Germination Type of Conidia of Powdery Mildews Found on *Phyllanthus* spp. pp. 108-203. In: Summary the First International Conference on Tropical and Subtropical Plant Disease. The Imperial Mae Ping Hotel Chiang Mai, Thailand.

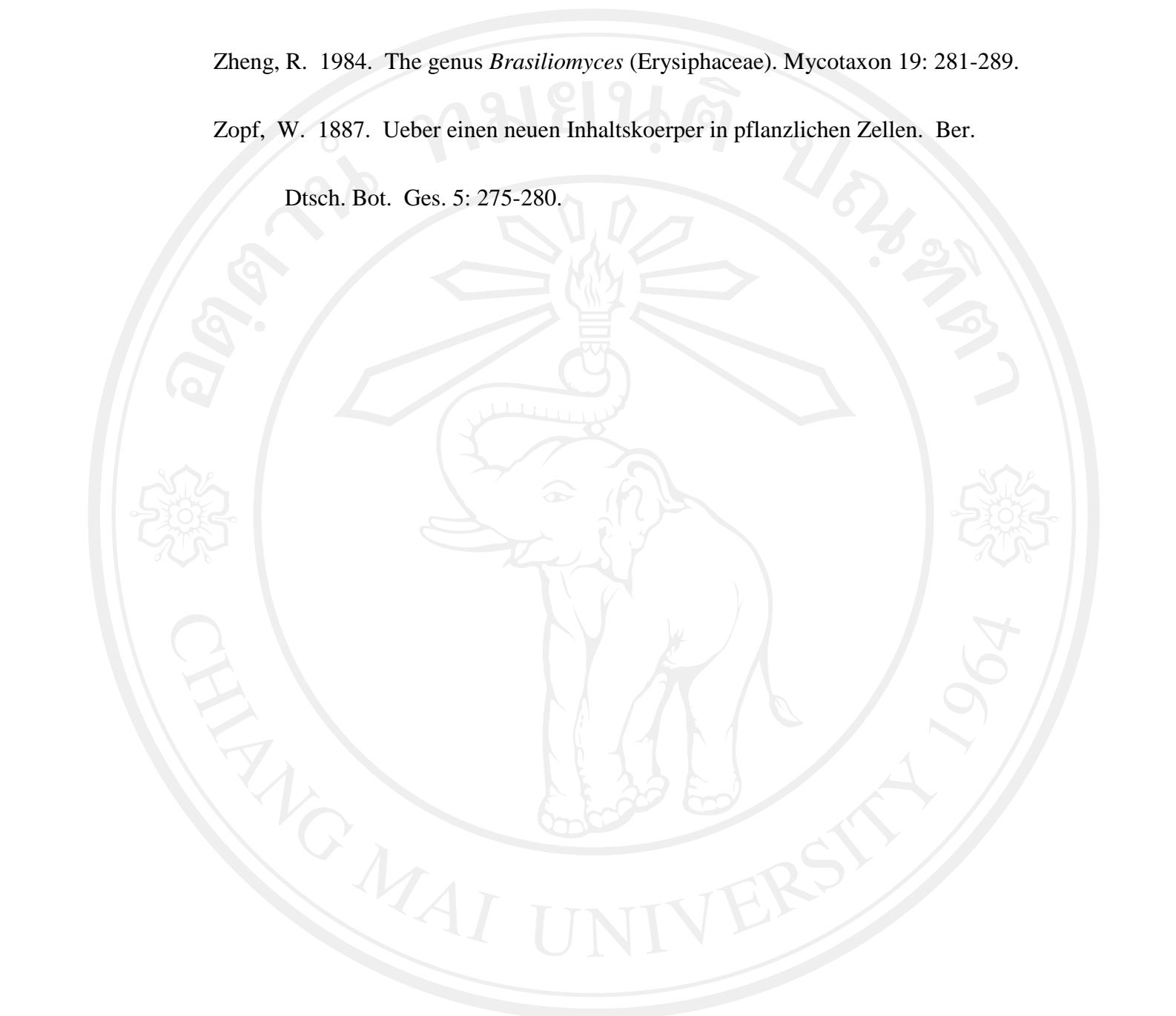
- To-anun, C., Limkaisang, S., Fangfuk, W., Sato, Y., Braun, U., Takamatsu, S. 2003. A new species of *Brasiliomyces* (Erysiphaceae) on *Dalbergia cultrata* var. *cultrata* from Thailand. *Mycoscience* 44: 447-451.
- Tubaki, K. 1981. Hyphomycetes-Their Perfect-Imperfect Connexion. J. Cramer, Vaduz.
- Viegas, A. P. 1944. Alguns Fungos do Brasil II. Ascomcetos. *Bragantia* 4: 5-392.
- Walsh, P. S., Metzer, D. A. and Higuchi, R. 1991. Chelex 100 as a medium for simple extraction of DNA for PCR-based typing from forensic material. *BioTechniques* 10: 506-513.
- Webstor, J. 1980. Introduction to Fungi. Cambridge.
- Webstor, J. 1983. Pilze. Eine Einführung. Springer, Berlin.
- Wei, C. T. 1942. Notes on Chinese Fungi X. Erysiphaceae of Western Szechwan. Nanking Journ 11(3): 103-116.
- White, T. J., Bruns, T. D., Lee, S. and Taylor, J. 1990. Amplification and direct sequencing of fungal ribosomal genes for phylogenetics. In: PCR Protocols, (ed. By Innis, M. A., Gelfand, D.H., Sninsky, J. J. and White, T. J.). 315-322. Academic press, San Diego, California.
- Yardwood, C. E. 1957. Powdery mildews. *Bot Rev* 13: 235-301.

- Yardwood, C. E. 1963. Predisposition to powdery mildews. *Phytopathology* 53; 1144-1145.
- Yardwood, C. E. 1978. History and taxonomy of powdery mildews. Pages 1-37 in: *The Powdery Mildews*. D. M. Spencer, ed. Academic Press, London.
- Yen, J. M. 1966a. Etude sur les champignons parasites du Sud-Est asiatique VI: Un nouvel *Oidium* récolté à Taiwan (Formose) sur *Carica papaya*: *Oidium caricae-papaya* Yen (n.sp.).-Rev.Myc. 31(4): 311-316.
- Yen, J. M. 1967. Étude sur les champignons parasites du Sud-Est asiatique VIII: Quelques espèces d' *Oidium* de Formose.-Cahiers du Pacifiq 11: 75-116.
- Yen, J. M. and Wang, C. C. 1973. Étude sur les champignons parasites du Sud-Est asiatique XXI: Les Oidium de Formose (II).-Rev. Myc. 31.(4): 281-310.
- Zaracovitis, C. 1964. Factor in testing fungicides against powdery mildews. The germination of the conidia in vitro.-Ann. Inst. Phytopath. Benaki N. S. 6: 73-106.
- Zaracovitis, C. 1965. Attempts to identify powdery mildew fungi by conidial characters.-Trans. Br.mycol. Soc. 48: 553-558.
- Zhao, Z. Y. 1981. Taxonomic studies on the genus *Sphaerotheca* of China. II. New species and new variety on Euphorbiaceae and Papilionaceae. *Acta Microbiol. Sinica* 21: 284-292.

Zheng, R. 1984. The genus *Brasiliomyces* (Erysiphaceae). Mycotaxon 19: 281-289.

Zopf, W. 1887. Ueber einen neuen Inhaltskoerper in pflanzlichen Zellen. Ber.

Dtsch. Bot. Ges. 5: 275-280.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright © by Chiang Mai University
All rights reserved



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright © by Chiang Mai University
All rights reserved