

REFERENCES

- Ahmad, D.F., Ahmad, I., Khan, M.S., 2005. Indole acetic acid production by the indigenous isolates of *Azotobacter* and fluorescent *Pseudomonas* in the presence and absence of tryptophan. *Turk. J. Biol.*, 29:29-34.
- Anderson, A.B., 1991. Symbiotic and asymbiotic germination and growth of *Spiranthes magnicamporum* (Orchidaceae). *Lindleyana.*, 6:183-186.
- Arditti, J., Ernst, R., Yam, T.W., Glabe, C., 1990. The contributions of orchid mycorrhizal fungi to seed germination: a speculative review. *Lindleyana.*, 5:249-255.
- Arditti, J., Krikorian, A.D., 1996. Orchid micropropagation: the part from laboratory to commercialization and an account of several unappreciated investigators. *Bot. J. Linn. Soc.*, 122:183-241.
- Arditti, J., Michaud, J.D., Oliva, A.P., 1981. Seed germination of North American orchids. I. Native California and related species of *Calypso*, *Epipactis*, *Goodyera*, *Piperia*, and *Platanthera*. *Bot. Gaz.*, 142:442-453.
- Athipunyakom, P., Manoch, L., Piluek, C., 2004a. Isolation and identification of mycorrhizal fungi from eleven terrestrial orchids. *Kasetsart. J. (Nat Sci.)*, 38:216-228.

Athipunyakom, P., Manoch, L., Piluek, C., Artjariyasripong, S., Tragulrungs, S., 2004b. Mycorrhizal fungi from *Spathoglottis Plicata* and the use of these fungi to germinate seeds of *S. plicata* *in vitro*. *Kasetsart. J. (Nat Sci)*, 37:83-93.

Atkin, C.L., Neiland, J.B., Phaff, H.J., 1970. Rhodotorulic acid from species of *Leucosporidium*, *Rhodospondium*, *Rhodotorula*, *Sporidiobolus* and *Sporobolomyces*, and a new alanine-containing ferrichrome from *Cryptococcus meliviosum*. *J. Bacteriol.*, 103:722-733.

Baakza, A., Vala, A.K., Dave, B.P., Dube, H.C., 2004. A comparative study of siderophore production by fungi from marine and terrestrial habitats. *J. Exp. Mar. Biol. Ecol.*, 311:1-9

Banks, P.D. (2003). *Handy Pocket Guide to Orchids*. Singapore; Periplus Editions (HK) Ltd.

Barnett, H.L., and Hunter, B.B. (1987). *Illustrated Genera of Imperfect Fungi* 4th ed. New York: Macmillan Publishing Company.

Batty, A.L., Brundrett, M.C., Dixon, K.W., Sivasithamparam, K., 2006a. *In situ* symbiotic seed germination and propagation of terrestrial orchid seedlings for establishment at field sites. *Aust. J. Bot.*, 54:375-381.

Batty, A.L., Brundrett, M.C., Dixon, K.W., Sivasithamparam, K., 2006b. New method to improve symbiotic propagation of temperate terrestrial orchid seedlings from axenic culture to soil. *Aust. J. Bot.*, 54:367-374.

Batty, A.L, Dixon, K.W., Brundrett, M.C., Sivasithamparam, K., 2001. Long-term storage of mycorrhizal fungi and seed as a tool for the conservation of endangered Western Australian terrestrial orchids. *Aust. J. Bot.*, 49:619-628.

Bayman, P., Lebro'n, L.L., Tremblay, R.L., Lodge, D.J., 1997. Variation in endophytic fungi from roots and leaves of *Lepanthes* (Orchidaceae). *New Phytol.*, 135:143-149.

Beyrle, H.F., Smith, S.E., Peterson, R.L., Franco, C.M.M., 1995. Colonization of *Orchis morio* protocorms by a mycorrhizal fungus: effects of nitrogen nutrition and glyphosate modifying the responses. *Can. J. Bot.*, 73:1128-1140.

Bougoure, J.J., Bougoure, D.S., Cairney, J.W.G., Dearnaley, J.D.W., 2005. ITS-RFLP and sequence analysis of endophytes from *Acianthus*, *Caladenia* and *Pterostylis* (Orchidaceae) in southern Queens land. *Mycol. Res.*, 109:452-460.

Brundrett, M., 2004. Diversity and classification of mycorrhizal associations. *Biol. Rev.*, 79:473-495.

Brundrett, M., Bougher, N., Dell, B., Grove, T., and Malajczuk, N. (1996).

Working with Mycorrhizas in Forestry and Agriculture. Canberra: Australian Centre for International Agricultural Research.

Brundrett, M., Scade, C.A., Batty, A.L., Dixon, K.W., 2003. Sivasithamparam K., Development of *in situ* and *ex situ* seed baiting techniques to detect mycorrhizal fungi from terrestrial orchid habitats. *Mycol. Res.*, 107:1210-1220.

Brundrett, M., Sivasithamparam, K., Ramsay, M., Krauss, S., Taylor, R., Bunn, E., Hicks, A., Karim, N.A., Debeljak, N., Mursidawati, S., Dixon, B., Batty, A., Bower, C., and Brown, A. (2001). *Orchid Conservation Techniques Manual, First International Orchid Conservation Congress-Training Course*. Perth: Plant Science, King Park & Botanic Garden.

Castañeda, M., Pardio, S., Orrantia, B., Lango, F., 2005. Influence of water temperature and salinity on seasonal occurrences of *Vibrio cholerae* and enteric bacteria in oyster-producing areas of Veracruz, México. *Mar. Pollut. Bull.*, 50:1641-1648.

Chaiharn, M., Chunhaleuchanon, S., Lumyong, S., 2009. Screening siderophore producing bacteria as potential biological control agent for fungal rice pathogens in Thailand. *World. J. Microbiol. Biotechnol.*, 25:1919–1928.

Chaiharn, M., Lumyong, S., 2011. Screening and optimization of indole-3-acetic acid production and phosphate solubilization from rhizobacteria aimed at improving plant growth. *Curr. Microbiol.*, 62:173-181.

Chou, L.C., Chang, D.C.N., 2004. Asymbiotic and symbiotic seed germination of *Anoectochilus formosanus* and *Haemaria discolor* and their F₁ hybrids. *Botany. Bulletin. Acadamy. Science.*, 45:143-147.

Clements, M., 1988. Orchid mycorrhizal associations. *Lindleyana.*, 3:73-86.

Cordier, C., Gianinazzi, S., Gianinazzi-Pearson, V., 1998. Colonization pattern of root tissue by *Phytophthora nicotianae* var. *parasitica* related to reduced disease in mycorrhizal tomato. *Plant. Soil.*, 185:223–232.

Currah, R.S., Zelmer, C., 1992. A key and notes for the genera of fungi mycorrhizal with orchids and a new species in the genus *Epulorhiza*. *Rept. Tottori. Mycol. Inst.*, 30:43-59.

Currah, R.S., Zettler, I.W., McInnis, T.M., 1997. *Epulorhiza inquilina* sp. nov. from *Plantanthera* (Orchidaceae) and a key to *Epulorhiza* species. *Mycotaxon.*, 61:335-342.

Dasa, A., Majum, J.L., Camacho, M., 2006. Effect of carbon and nitrogen sources, pH and temperature on *in vitro* culture of several isolates of *Amanita caesarea* (Scop.:Fr.) Pers. *Mycorrhiza.*, 16:133-136.

Davies, P.J. (2004). *Plant Hormones, Biosynthesis and Signal Transduction and Action*. (pp. 1-35), Netherlands: Kluwer Academic Publishers.

Dearnaley, J.D.W., 2007. Further advances in orchid mycorrhizal research. *Mycorrhiza.*, 17:475-486.

Deshwal, V.K., Dubey, R.C., Maheshwari, D.K., 2003. Isolation of plant-growth promoting strains of *Bradyrhizobium* (*Arachis* sp.) with biocontrol potential against *Macrophomina phaseolina* causing charcoal rot of peanut. *Curr. Sci.*, 84: 443-448.

Douds, D.D., Nagahashi, G., Reider, C., Hepperly, P.R., 2007. Inoculation with arbuscular mycorrhizal fungi increases the yield of potatoes in a high P soil. *Biol. Agric. Hortic.*, 25:67-78.

Duchesne, L.C, Peterson, R.L, Ellis, B.E., 1989. The future of ectomycorrhizal fungi as biological control agents. *Phytoprotection.*, 70:51-57.

Duke University. 2011. "Conserved primer sequences for PCR amplification and sequencing from nuclear ribosomal RNA" [Online]. Available <http://www.biology.duke.edu/fungi/mycolab/primers.html> (8 January 2011).

Eason, W.R., Newman, E.I., Chuba, P.N., 1991. Specificity of interplant cycling of phosphorus: the role of mycorrhizas. *Plant. Soil.*, 137:267-274.

Ehmann, A., 1977. The van Urk-Salkowski reagent-a sensitive and specific chromogenic reagent for silica gel thin-layer chromatographic detection and identification of indole derivatives. *J. Chromatogr.*, 132:267-276.

El-Abyad, M.S.H., Webster, J., 1968. Studies on pyrophilous discomycetes: II. Competition. *Br. Mycol. Soc.* 51:369-375.

El-Mehalawy, A.A., Hassanin, S.M., Hassanin, N.M., Zaki, S.A., 2007. Induction of resistance and biocontrol of rhizoctonia in cotton against damping-off disease by rhizosphere yeasts and fungi. *New Egypt. J. Microbiol.*, 17:148-167.

El-Tarabily, K.A., Nassar, A.H., Sivasithamparam, K., 2008. Promotion of growth of bean (*Phaseolus vulgaris* L.) in a calcareous soil by a phosphate-solubilizing, rhizosphere-competent isolate of *Micromonospora endolithica*. *Appl. Soil. Ecol.*, 39:161-171.

Erturk, Y., Ercisli, S., Sekban, R., Haznedar, A., Donmez, M.F., 2008. The effect of PGPR on rooting and growth of tea (*Camellia sinensis* var. *Sinensis*) cuttings. *Romanian Biotechnol. Lett.*, 13:3747-3756.

Ezilon maps. 2011. "Thailand Map - Political Map of The Kingdom of Thailand"

[Online]. Available <http://www.ezilon.com/maps/asia/thailand-maps.html>

(21 November 2011).

Fogel, R., Peck, S.B., 1975. Ecological studies of hypogeous fungi. I. *Coleoptera* associated with sporocarps. *Mycologia.*, 67:741-747.

Fries, L., 1956. Studies in the physiology of *Coprinus*. II. Influence of pH, metal factors and temperature. *Sven. Bot. Tidskr.*, 50:47-96.

Goodfellow, M., Williams, S.T., 1983. Ecology of actinomycetes. *Ann. Rev. Microbiol.*, 37:189-215.

Gordon, S.A., Weber, R.P., 1951. Colorimetric estimation of indoleacetic acid. *Plant. Physiol.*, 26:192-195.

Grandmaison, J., Olah, G.M., Calsteren, M.R., Furlan, V., 1993. Characterisation and localisation of plant phenolics likely involved in the pathogen resistance expressed by endomycorrhizal roots. *Mycorrhiza.*, 3:155-164.

Hadley, G. (1982). Orchid mycorrhiza. In: Arditti, J., ed. *Orchid Biology Reviews and Perspectives II.* (pp. 85-115), Comstock: Cornell University Press.

Harley, J.L., and Smith, S.E. (1983). *Mycorrhizal Symbiosis*. London: Academic Press.

Hasan, H.A.H., 2002. Gibberellin and auxin production by plant root-fungi and their biosynthesis under salinity-calcium interaction. *Acta. Microbiol. Immunol. Hung.*, 49:105-118.

Haselwandter, K., 1995. Mycorrhizal fungi: siderophore production. *Crit. Rev. Biotechnol.*, 15:287-91.

Horton, T.R., Bruns, T.D., Parker, V.T., 1999. Ectomycorrhizal fungi associated with *Arctostaphylos* contribute to *Pseudotsuga menziesii* establishment. *Can. J. Bot.*, 77: 93–102.

Hung, L.L., Trappe, J.M., 1987. Ectomycorrhizal inoculation of Douglas-fir transplanted container seedlings with commercially produced inoculum. *New. Forests.*, 1:141-152.

Ingham, E.R., Massicotte, H.B., 1994. Protozoan communities around conifer roots colonized by ectomycorrhizal fungi. *Mycorrhiza.*, 5:53-61.

Jeon, J.L., Lee, S.S., Kim, H.Y., Ahn, T.S., Song, H.G., 2003. Plant growth promotion in soil by some inoculated microorganisms. *J. Microbiol.*, 41:271-276.

Jing, L., Qing, L.S., Yi, L., Li, C.X., 2009. Effects of increased ammonia on root/shoot ratio, grain yield and nitrogen use efficiency of two wheat varieties with various N supply. *Plant. Soil. Environ.*, 7:273-280.

Johnson, T.R., Stewart, S.L., Dutra, D., Kane, M.E., 2007. Richardson L., Asymbiotic and symbiotic seed germination of *Eulophia alta* (Orchidaceae)-preliminary evidence for the symbiotic culture advantage. *Plant. Cell. Tiss. Organ. Cult.*, 90:313-323.

Jonbloed, R.H., Borst-Pauwels, G.W.F.H., 1990. Effect of ammonium and pH on growth of some ectomycorrhizal fungi *in vitro*. *Acta. Bot. Neerl.*, 39:349-358.

Kahiluoto, H., Vestberg, M., 1998. The effect of arbuscular mycorrhiza on biomass production and phosphorus uptake from sparingly soluble sources by leek (*Allium porrum* L.) in Finnish field soils. *Biol. Agric. Hort.*, 16:65-85.

Kalinowski, B.E., Liermann, L.J., Givens, S., Brantley, S.L., 2000. Rates of bacteria-promoted solubilization of Fe from minerals: A review of problems and approaches. *Chem. Geol.*, 169:357-370.

Kasana, R.C., Salwan, R., Dhar, H., Dutt, S., Gulati, A., 2008. A rapid and easy method for the detection of microbial celluloses on agar plates using Gram's iodine. *Curr. Microbial.*, 57:503-507.

Kato, R., Takatsuna, S., Wada, T., Narihara, Y., Suzuki, T., 2003. *In vitro* phosphorylation of proteins in IAA-treated primary roots and coleoptiles in *Zea mays*. *Bull. Yamagata Univ. (Nat Sci)*, 15: 89-104.

Khamna, S. (2009). *Biodiversity and secondary metabolites of Actinomycetes from rhizosphere soils of some medicinal plants*. Ph.D. Thesis, Chiang Mai University.

Khamna, S., Yokota, A., Peberdy, J.F., Lumyong, S., 2010. Indole-3-acetic acid production by *Streptomyces* sp. isolated from some Thai medicinal plant rhizosphere soils. *Eur. Asia. J. BioSci.*, 4:23-32.

Khan, S.A., Hamayun, M., Kim, H.Y., Yoon, H.J., Lee, I.J., Kim, J.G., 2009. Gibberellin production and plant growth promotion by a newly isolated strain of *Gliomastix murorum*. *World. J. Microbiol. Biotechnol.*, 25:829-833.

- Kim, Y.K., Xiao, C.L., Rogers, J.D., 2005. Influence of culture media and environmental factors on mycelia growth and pycnidial production of *Sphaeropsis pyriputrescens*. *Mycologia.*, 97:25-32.
- Koga, J., Adachi, T., Hidaka, H., 1991. IAA biosynthetic pathway from tryptophan via indole-3-pyruvic acid in *Enterobacter cloacae*. *Agric. Biol. Chem.*, 55:701-706.
- Kristiansen, K.A., Freudenstein, J.V., Rasmussen, F.N., Rasmussen, H.N., 2004. Molecular identification of mycorrhizal fungi in *Neuwiedia veratrifolia* (Orchidaceae). *Mol. Phylogenet. Evol.*, 33:251-258.
- Kristiansen, K.A., Taylor, D.L., Kj  ller, R., Rasmussen, H.N., 2001. Rosendahl S., Identification of mycorrhizal fungi from single pelotons of *Dactylorhiza majalis* (Orchidaceae) using single-strand conformation polymorphism and mitochondrial ribosomal large subunit DNA sequences. *Mol. Ecol.*, 10:2089-2093.
- Kumla, J., Danell, E., Bussaban, B., Lumyong, S., 2011. Suitable growth conditions and nutrition factors on *in vitro* culture of *Phlebopus portentosus* (Boletales). *Chiang Mai. J. Sci.* 38:156–159.
- Lee, S.S., 2002. A review of orchid mycorrhizae in Korea. *Plant. Pathol. J.*, 18:169-178.
- Lee, S.S., Patahayah, M., Chong, W.S., Lapeyrie, F., 2008. Successful ectomycorrhizal inoculation of twodipterocarp species with a locally isolated fungus in peninsular Malaysia. *J. Trop. Forest. Sci.*, 20:237-247.

Lindahl, B., Stenlid, J., Olsson, S., Finlay, R., 1999. Translocation of ^{32}P between interacting mycelia of a wood decomposing fungus and ectomycorrhizal fungi in microcosm systems. *New. Phytol.*, 144:183–193.

Linderman, R., Call, C., 1977. Enhanced rooting of woody plant cuttings by mycorrhizal fungi. *J. Am. Soc. Hortic. Sci.*, 102:629–632.

Little, L.R., Maun, M.A., 1996. The ‘*Ammophila* problem’ revisited: A role for mycorrhizal fungi. *J. Ecol.*, 84:1-7.

Lussenhop, J., Fogel, R., 1999. Seasonal changes in phosphorus content of *Pinus strobus*-*Cenococcum geophilum* ectomycorrhizae. *Mycologia.*, 91:742-746.

Ma, M., Tan, T.K., Wong, S.M., 2003. Identification and molecular phylogeny of *Epulorhiza* isolates from tropical orchids. *Mycol. Res.*, 107:1041-1049.

Mahmoud, A.L.E., Abd-allah, M.A., 2001. Siderophores production by some microorganisms and their effect on *Bradyrhizobium*-mungbean symbiosis. *Int. J. Agric. Biol.*, 3:157-162.

Maor, R., Haskin, S., Levi-Kedmi, H., Sharon, A., 2004. In planta production of indole-3-acetic acid by *Colletotrichum gloeosporioides* f. sp. *aeschynomene*. *Appl. Environ. Microbiol.*, 70:1852-1854.

Marx, D.H., Bryan, W.C., Davey, C.B., 1970. Influence of temperature on aseptic synthesis of ectomycorrhizae by *Thelephora terrestris* and *Pisolithus tinctorius* on loblolly pine. *For. Sci.*, 16:424-431.

McCormick, M.K., Whingham, D.F., O'Neill, J., 2004. Mycorrhizal diversity in photosynthetic terrestrial orchids. *New. Phytol.*, 163:425-438.

McGonigle, T.P., Miller, M.H., Evans, D.G., Fairchild, G.L., Swan, J.A., 1990. A new method which gives an objective measure of colonization of roots by vesicular-arbuscular mycorrhizal fungi. *New. Phytol.*, 115:495-501.

McKendrick, S.L., Leake, J.R., Taylor, D.L., Read, D.J., 2000. Symbiotic germination and development of myco-heterotrophic plants in nature: ontogeny of *Corallorhiza trifida* and characterization of its mycorrhizal fungi. *New. Phytol.*, 145:523-537.

McKendrick, S.L., Leake, J.R., Taylor, D.L., Read, D.J., 2002. Symbiotic germination and development of the mycoheterotrophic orchid *Neottia nidus-avis* in nature and its requirement for locally distributed *Sebacina* spp. *New. Phytol.*, 154: 233–247.

Mei-ling, X.U., Jiao-jun, Z.H.U., Hong-zhang, K., Ai-hua, X.U., Jin-xin, Z., Feng-qin, L.I., 2008. Optimum conditions for pure culture of major ectomycorrhizal fungi obtained from *Pinus sylvestris* var. *mogolica* plantations in southeastern Keerqin sandy, China. *J. Forest. Res.*, 19:113-118.

Mikola, P., 1970. Mycorrhizal inoculation in afforestation. *Int. Rev. For. Res.*, 3:123-196.

Milagres, A.M.F., Machuca, A., Napoleão, D., 1999. Detection of siderophore production from several fungi and bacteria by a modification of chrome azurol S (CAS) agar plate assay. *J. Microbiol. Methods.*, 37:1–6.

Miyoshi, K., Mii, M., 1995. Enhancement of seed germination and protocorm formation in *Calanthe discolor* (Orchidaceae) by NaOCl and polyphenol absorbent treatments. *Plant. Tiss. Cult. Lett.*, 12:267–272.

Molina, R., and Trappe, J.M. (1984). *Mycorrhiza Management in Bareroot Nurseries*. Oregon: College of Forestry Oregon State University.

Moore, R.T., 1987. The genera of *Rhizoctonia*-like fungi; *Ascorhizoctonia*, *Ceratorhiza* gen. nov., *Moniliopsis* and *Rhizoctonia*. *Mycotaxon.*, 29: 91-99.

Nanakorn, W., Indharamusika, S., 1998. *Ex-situ* conservation of native Thai orchids at Queen Sirikit Botanic Garden. *Pure. Appl. Chem.*, 70:2115-2122.

Nasim, G., Rahman, M., Shabbir, A., 2004. Effect of indole acetic acid on *in vitro* growth and biomass production of some soil fungi. *Pak. J. Biol. Sci.*, 12:2039-2044.

Neilands, J.B., 1995. Siderophores: structure and function of microbial iron transport compounds. *J. Biol. Chem.*, 270:26723-26726.

Niemi, K., Vuorinen, T., Ernstsén, A., Häggman, H., 2002. Ectomycorrhizal fungi and exogenous auxins influence root and mycorrhiza formation of Scots pine hypocotyl cuttings *in vitro*. *Tree. Physiol.*, 22:1231-1239.

Nontachaiyapoom, S., Sasirat, S., Manoch, L., 2010. Isolation and identification of *Rhizoctonia*-like fungi from roots of three orchid genera, *Paphiopedilum*, *Dendrobium*, and *Cymbidium*, collected in Chiang Rai and Chiang Mai provinces of Thailand. *Mycorrhiza.*, 20:459–471.

Ovando, I., Damon, A., Bello, R., Ambrosio, D., Albores, V., Adriano L., Salvador, M., 2005. Isolation of endophytic fungi and their potential for the tropical epiphytic orchids *Cattleya skinneri*, *C. aurantiaca* and *Brassavola nodosa*. *Asian. J. Plant. Sci.*, 4:309-315.

Pal, K.K., Gardener, B.M. 2006. "Biological Control of Plant Pathogens." *The Plant Health Instructor*. DOI: 10.1094/PHI-A-2006-1117-02. [Online] Available <http://www.apsnet.org/edcenter/advanced/topics/Pages/BiologicalControl.aspx> (21 November 2011).

Pérez-Miranda, S., Cabirol, N., George-Téllez, R., Zamudio-Rivera, L.S., Fernández, F.J., 2007. O-CAS, a fast and universal method for siderophore detection. *J. Microbiol. Meth.*, 70:127-131.

Porras-Alfaro, A., Bayman, P., 2007. Mycorrhizal fungi of Vanilla: diversity, specificity and effects on seed germination and plant growth. *Mycologia.*, 99:510-525.

Promptutha, I., Jeewon, R., Lumyong, S., McKenzie, E.H.C., Hyde, K.D., 2005. Ribosomal DNA fingerprinting in the identification of non sporulating endophytes from *Magnolia liliifera* (Magnoliaceae). *Fungal Divers.*, 20:167-186.

Puplett, D. 2006. "Tree for life: restoration the Caledonian forest; mycorrhizas." [Online]. Available <http://www.treesforlife.org.uk/forest/ecological/mycorrhizas.html> (28 April 2006).

Rabatin, S.C., Stinner, B.R., 1989. The significance of vesicular-arbuscular mycorrhizal fungal- soil macroinvertebrate interactions in agroecosystems. *Agric. Ecosyst. Environ.*, 27:195-204.

Rasmussen, H.N. (1995). *Terrestrial Orchids from Seed to Mycotrophic Plants*. (pp. 142-233), New York: Cambridge University Press.

Robert, P. (1999). *Rhizoctonia-Forming Fungi a Taxonomic Guide*. Great Britain: The Trustees, Royal Botanic Gardens, Kew.

Robinson, M., Riov, J., Sharon, A., 1998. Indole-3-acetic acid biosynthesis in *Colletotrichum gloeosporioides* f. sp. *aeschynomene*. *Appl. Environ. Microbiol.*, 64:5030-5032.

Roy, M., Watthana, S., Stier, A., Richard, F., Vessabutr, S., Selosse, M.A., 2009. Two mycoheterotrophic orchids from Thailand tropical dipterocarpacean forests associate with a broad diversity of ectomycorrhizal fungi. *BMC. Biol.*, 7:51.

Ruanpanun, P., Tangchitsomkid, N., Hyde, K.D., Lumyong, S., 2010. *Actinomycetes* and fungi isolated from plant-parasitic nematode infested soils: screening of the effective biocontrol potential, indole-3-acetic acid and siderophore production. *World. J. Microbiol. Biotechnol.*, 26:1569-1578.

Rygiewicz, P.T., Andersen, C.P., 1994. Mycorrhizae alter quality and quantity of carbon allocated below ground. *Nature.*, 369:58-60.

Sánchez, F., Honrubia, M., Torres, P., 2001. Effects of pH and temperature on *in vitro* cultures of ectomycorrhizal fungi from Mediterranean forests. *Mycol.*, 22:243-258.

Sangthong, S. (2002). *Effect of Endomycorrhizal Fungus on Growth of Dendrobium scabrilingue Lindl. and its Hybrids*. M.S. Thesis, Chiang Mai University.

Sanmee, R., Lumyong, P., Dell, B., Lumyong, S., 2010. *In vitro* cultivation and fruit body formation of black bolete, *Phlebopus portentus*, a popular edible ectomycorrhizal fungus in Thailand. *Mycoscience.*, 51:15-22.

Santisuk, T., Chayamarit, K., Pooma, R., and Suddee, S. (2006). *Thailand Red Data: Plants*. Bangkok: Office of Natural Resources and Environmental Policy and Planning (ONEP).

Schweiger, P.F., Robson, A.D., Barrow, N.J., 1995. Root hair length determines beneficial effect of a *Glomus* species on shoot growth of some pasture species. *New. Phytol.*, 131:247-254.

Selosse, M.A., Tacon, F.L., 1998. The land flora: a phototroph-fungus partnership?. *Trends. Ecol. Evol.*, 13:15-20.

Setälä, H., 1995. Growth of birch and pine seedlings in relation to grazing by soil fauna on ectomycorrhizal fungi. *Ecology.*, 76:1844-1851.

Shefferson, R.P., Weiss, M., Kull, T., Taylor, D.L., 2005. High specificity generally characterizes mycorrhizal association in rare lady's slipper orchids, genus *Cypripedium*. *Mol. Ecol.*, 14:613-626.

Shimura, H., Sadamoto, M., Matsuura, M., Kawahara, T., Naito, S., Koda, Y., 2009. Characterization of mycorrhizal fungi isolated from the threatened *Cypripedium macranthos* in a northern island of Japan: two phylogenetically distinct fungi associated with the orchids. *Mycorrhiza.*, 19:525-534.

Sivasithamparam, K., Dixon, K.W., and Barrett, R.L. (2002). *Microorganisms in Plant Conservation and Biodiversity*. (pp.195-226), Netherlands: Kluwer, Dordrecht.

Smith, S.E., and Read, D.J. (2008). *Mycorrhizal Symbiosis 3rd ed.* (pp. 419-463), San Diego: Academic Press.

- Sridevi, M., Mallaiah, K.V., 2008. Production of indole-3-acetic acid by *Rhizobium* isolates from *Sesbania* species. *Plant. Sci. Res.*, 1:13-16.
- Stewart, S.L., Kane, M.E., 2006. Symbiotic seed germination of *Habenaria macroceratitis* (Orchidaceae), a rare Florida terrestrial orchid. *Plant. Cell. Tissue. Organ. Cult.*, 86:159-167.
- Stewart, S.L., Zettler, L.W., 2002. Symbiotic germination of three semi-aquatic rein orchids (*Habenaria repens*, *H. quinquiseta*, *H. macroceratitis*) from Florida. *Aquat. Bot.*, 72:25-35.
- Suarez, J.P., Weiss, M., Abele, A., Garnica, S., Oberwinkler, F., Kottke, I., 2006. Diverse tulasnellid fungi from mycorrhizas with epiphytic orchids in an Andean cloud forest. *Mycol. Res.*, 110:1257-1270.
- Swarts, N.D., Dixon, K.W., 2009. Terrestrial orchid conservation in the age of extinction. *Ann. Bot.*, 104:543-556.
- Tamura, K., Dudley, J., Nei, M., Kumar, S., 2007. MEGA4: Molecular Evolutionary Genetic Analysis (MEGA) software version 4.0. *Mol. Biol. Evol.*, 24:1596-1599.
- Tao, G., Liu, Z.Y., Hyde, K.D., Lu, X.Z., Yu, Z.N., 2008. Whole rDNA analysis reveals novel and endophytic fungi in *Bletilla ochracea* (Orchidaceae). *Fungal Divers.*, 33:101-122.
- Tarafdar, J.C., Marschner, H., 1994. Efficiency of VAM hyphae in utilisation of organic phosphorus by wheat plants. *Soil. Sci. Plant. Nutr.*, 40: 593-600.
- Taylor, D.L., McCormick, M.K., 2007. Internal transcribed spacer primers and sequences for improved characterization of basidiomycetous orchid mycorrhizas. *New. Phytol.*, 177:1020-1033.

Trappe, J.M., 1977. Selection of fungi for ectomycorrhizal inoculation in nurseries. *Annu. Rev. Phytopathol.*, 15:203-222.

Tsavkelova, E.A., Bömke, C., Netrusov, A.I., Weiner, J., Tudzynski, B., 2008. Production of gibberellic acids by an orchid-associated *Fusarium proliferatum* strain. *Fungal Genet. Biol.*, 45:1393-1403.

Tsavkelova, E.A., Cherdyntseva, T.A., Botina, S.G., Netrusov, A.I., 2007. Bacteria associated with orchid roots and microbial production of auxin. *Microbiol. Res.*, 162:69-76.

Vacin, E., Went, F., 1949. Some pH changes in nutrient solutions. *Bot. Gaz.*, 110:605-613.

Vaddhanaphuti, N. (2005). *A Field Guide to The Wild Orchids of Thailand 4th ed.* Chiang Mai: Silkworm Books.

Valois, D., Fayad, K., Barbasubiye, T., Garon, M., Déry, C., Brzezinski, R., Beaulieu, C., 1996. Glucanolytic actinomycetes antagonistic to *Phytophthora fragariae* var. *rubi*, the causal agent of raspberry root rot. *App. Environ. Microbiol.*, 62:1630–1635.

Verma, A. (1998). *Mycorrhiza Manual*. (pp. 243- 270), Germany: Springer-Verlag Berlin Heidelberg.

Warcup, J.H., 1973. Symbiotic germination of some Australian terrestrial orchids. *New. Phytol.*, 72:387-392.

Watanabe, T. (2001). *Pictorial Atlas of Soil and Seed Fungi Morphologies of Cultured Fungi and Key to Species 2nd ed.* New York: CRC Press.

Weber, R.W.S., Webster, J., 2001. Teaching techniques for mycology: 14. mycorrhizal infection of orchid seedlings in the laboratory. *Mycologist.*, 15:55-59.

Wehner, J., Antunes, P.M., Powell, J.R., Mazukato, J., Rillig, C., 2009. Plant pathogen protection by arbuscular mycorrhizas: A role for fungal diversity?. *Pedobiologia.*, 53:197-201.

White, T.J., Bruns, T.D., Lee, S., and Taylor, J.W. (1990). Amplification and direct sequencing of fungal ribosomal RNA genes for phylogenetics. In: Innis, M.A., Gelfand, D.H., Sninsky, J.J., and White, T.J. (eds), *PCR Protocols: a Guide to Methods and Applications*. (pp. 315-322), San Diego: Academic.

Withner, C.L. (1974). *The Orchids, Scientific Studies*. New York: Wiley-Interscience.

Wright, M., Cross, R., Dixon, K., Huynh, T., Lawrie, A., Nesbitt, L., Prichard, A., Swarts, N., Thomson, R., 2009. Propagation and reintroduction of *Caladenia*. *Aust. J. Bot.*, 57:373-387.

Yadav, J.S., Tripathi, J.P., 1991. Optimization of cultivation and nutrition conditions and substrate pretreatment for solid-substrate fermentation of wheat straw by *Coriolus versicolor*. *Microbiol.*, 36:294-301.

Yamanaka, T., 2003. The effect of pH on growth of saprotrophic and ectomycorrhizal ammonia fungi *in vitro*. *Mycologia.*, 95:584-589.

Yamato, M., Yagame, T., Suzuki, A., Iwase, K., 2005. Isolation and identification of mycorrhizal fungi associating with an achlorophyllous plant, *Epipogium roosei* (Orchidaceae). *Mycoscience.*, 46:73-77.

Yoder, J.A., Zettler, L.W., Stewart, S.L., 2000. Water requirements of terrestrial and epiphytic orchid seeds and seedlings, and evidence for water uptake by means of mycotrophy. *Plant Sci.*, 56:145-150.

Zelmer, C.D., Cuthbertson, L., Currah, R.S., 1996. Fungi associated with terrestrial orchid mycorrhizas, seeds and protocorms. *Mycoscience.*, 37:439-448.

Zettler, L.W., Hofer, C.J., 1998. Propagation of the little club-spur orchid (*Platanthera clavellata*) by symbiotic seed germination and its ecological implications. *Environ. Exp. Bot.*, 39:189-195.

Zhu, G.S., Yu, Z.N., Gui, Y., Liu, Z.Y., 2008. A novel technique for isolating orchid mycorrhizal fungi. *Fungal Divers.*, 33:123-137.