

REFERENCES

- Abid, R., S. Sharmin and A. Perveen. 2007. Stomatal types of monocots within flora of Karachi, Pakistan. Pak. J. Bot. 39(1): 15-21.
- Adedeji, O., O.Y. Ajuwon and O.O. Babawale, 2007. Foliar epidermal studies, organo-graphic distribution and taxonomic importance of trichomes in the family Solanaceae. Int. J. Bot. 3: 276-282.
- Agashe, S.N. and E. Caulton. 2009. Pollen and Spores: Applications with Special Emphasis on Aerobiology and Allergy. Science Publishers, New Hampshire. 400 p.
- Ahmad, I., T. Ahmad, M. Asif, M. Saleem and A. Akram. 2009. Effect of bulb size on growth, flowering and bulbil production of tuberose. Sarhad J. Agric. 25(3): 391-397.
- Aiamla-or, S. 2005. Study of Morphology and Effect of Anti-transpirants on Stomatal Aperture and Quality of Patumma (*Curcuma alismatifolia* x *Curcuma cordata* 'laddawan') Inflorescence. Thesis for Master Degree of Science (Postharvest Technology), King Mongkut's University of Technology Thonburi. 101 p. (in Thai)
- Akavipat, P. and W. Maneerat. 1979. *Amaryllis*. Horticulture Journal 14(3): 17-30. (in Thai)
- Alves-Araújo, A., F.A. Santos and M. Alves. 2007. Pollen characterization of Amaryllidaceae *sensu stricto* species from northeastern Brazil. Acta Bot. Bras. 21(4): 967-976.
- Amen, R.D. 1968. A model of seed dormancy. Botanical Review, 34: 1-31 cited by Le Nard, M. and A.A. De Hertogh. 1993. Bulb growth and development and flowering. p. 29-43. In A.A. De Hertogh and M. Le Nard (eds.). The Physiology of Flower Bulbs. Elsevier Science Publishers, Amsterdam. 811 p.
- Amico Roxas, U., G.V. Zizzo, S. Agnello, A. Sciortino and G. Iapichino. 1994. Effect of seed storage and seed size on germination emergence and bulblet production of *Amaryllis belladonna* L. Acta Hort. 362: 281-288.

- Anderson, A., F. Santos and M. Alves. 2007. Pollen Characterization of Amaryllidaceae sensu stricto species from northeastern Brazil. From: http://www.scielo.br/scielo.php?pid=S010233062007000400021&script=sci_abstract (3 April 2009).
- Apisitwanich, S. and S. Masuthon. 2000. Study on plant chromosomes by enzymatic cell maceration technique. Journal of Science 54(3): 178-183. (in Thai)
- Arayakitcharoenchai, P. 2000. Propagation of *Amaryllis*. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 111 p. (in Thai)
- Arayakitcharoenchai, P. and C. Suwanthada. 2001a. Chromosome investigation of local variety and hybrids of *Amaryllis*. Journal of Agriculture. 17(1): 43-49.
- Arayakitcharoenchai, P. and C. Suwanthada. 2001b. Development of stamen and pistil of *Hippeastrum*. Proceedings of the 39th Kasetsart University Annual Conference. February 5-7, 2001. Bangkok, Thailand. p. 457-463. (in Thai)
- Arayakitcharoenchai, P. and C. Suwanthada. 2010. Pollen Morphology of *Hippeastrum* 6 cultivars. Thai Journal of Botany 2(2): 101-110.
- Arroyo, S. 1982. The chromosomes of *Hippeastrum*, *Amaryllis* and *Phycella* (Amaryllidaceae). Kew Bulletin 37(2): 211-216.
- Artjushenko, Z.T. 1966. Taxonomy of the genus Galanthus L. Daffodil Tulip Year, 32: 62-82.
- Arthey, V.D. 1975. Quality of Horticultural Products. Butterworths & Co. Ltd., London. 228 p.
- Aryavand, A., B. Ehdaie, B. Tran and J.G. Waines. 2003. Stomatal frequency and size differentiate ploidy levels in *Aegilops neglecta*. Genetics Resources and Crop Evolution. 50(2): 175-182.
- Bailey, L.H. 1949. Manual of Cultivated Plants. The Macmillan Company, New York. 1,116 p.
- Baimai, V. 1993. Genetics. Department of Biology, Faculty of Science, Mahidol University, Bangkok. 640 p.
- Baksh, S.I. and J.H. Richards. 2006. An architectural model for *Eleocharis*: morphology and development of *Eleocharis cellulosa* (Cyperaceae). Am. J. Bot. 93(5): 707-715.

- Benschop, M., R. Kamenetsky, M. Le Nard, H. Okubo and A.A. De Hertogh. 2010. The Global Flower Bulb Industry: Production, Utilization, Research. p. 1-115. In J. Janick (eds.). Hort. Rev. Volume 36. John Wiley & Sons, New Jersey. 371 p.
- Berlyn, G.P. and J.P. Miksche. 1976. Botanical Microtechnique and Cytochemistry. Iowa State University Press, Ames, Iowa. 326 p.
- Bewley, J.D. and M. Black. 1943. Seeds: Physiology of Development and Germination. Plenum Press, New York. 367 p.
- Beyhan N. and U. Serdar. 2008. Assessment of pollen viability and germinability in some European chesnut genotypes (*Castanea sativa* L.). HortScience (Prague) 35(4): 171-178.
- Bhandal, I.S. and R. Bala. 1991. Heavy metal inhibition of *in vitro* pollen germination and pollen tube growth in *Amaryllis vittata* (Ait). Plant Breeding Abstr. 61(7): 867.
- Blaauw, A.H. 1931. Orgaanvorming en periodiciteit van *Hippeastrum hybridum*. Akademie van Wetenschappen Amsterdan, 29: 1-90 (with English Summary) cited by Paula, C.B. 2006. Morphological Analysis of Tropical Bulbs and Environmental Effects on flowering and Bulb Development of *Habranthus robustus* and *Zephyranthes* spp. Thesis for Master Degree of Science (Horticulture), University of Florida. 127 p.
- Boorat, P. 1985. Botanical Technique. Department of Science and Mathematics, Faculty of Science and Technology, Prince of Songkla University, Pattani Campus, Songkla. 213 p. (in Thai)
- Boorat, P. 1985. Internal Structure of Plants. Department of Science and Mathematics, Faculty of Science and Technology, Prince of Songkla University, Pattani Campus, Songkla. 57 p. (in Thai)
- Bowes, S.A. 1990. Long-term storage of *Narcissus* anthers and pollen in liquid nitrogen. Euphytica 48: 275-278.
- Brewbaker, J.L. and H.K. Beyong. 1963. The essential role of calcium ion in pollen germination and pollen tube growth. Am. J. Bot. 50(9): 859-865.
- Brown, N.R., R.K. Crowden and J.R. Gorst. 1997. Embryogenesis and seed germination of Nerine. [Online]. Available: http://www.pubhort.org/actahort/books/430/430_18.htm (26 July 2010).

- Bryan, J.E. 1989. Bulbs, volume I, A-H. Timber Press. Portland, Oregon. 451 p.
- Buathong, P. 2008. Growth and Development of Amazon Lily (*Eucharis grandiflora* Planch & Link) and White Rain Lily (*Zephyranthes candida* Herb.). Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 103 p. (in Thai)
- Bunwong, S. and P. Chantaranothai. 2008. Pollen Morphology of the Tribe Vernonieae (Compositae) in Thailand. The Natural History Journal of Chulalongkorn University 8(1): 45-55.
- Campiranon, A. 1997. Cytogenetics. Department of Genetics, Faculty of Science, Kasetsart University, Bangkok. 253 p. (in Thai)
- Campiranon, A. 2003. Cytogenetics. Department of Genetics, Faculty of Science, Kasetsart University, Bangkok. 308 p. (in Thai)
- Canadian Nursery Landscape Association. No date. "R. Bulbs, Corms and Tubers." [Online]. Available: <http://www.canadanursery.com/Page.asp?PageID=122&ContentID=880> (7 August 2010).
- Carpenter, W.J. and E.R. Ostmark. 1988a. Moisture content, freezing and storage conditions influence germination of *Amaryllis* seed. HortScience. 23: 1,072-1,074.
- Carpenter, W.J. and E.R. Ostmark. 1988b. Sensitivity of seed germination of *Amaryllis* to light and temperature. HortScience. 23: 1002-1004.
- Celik, S., I. Uysali and Y. Menemen. 2005. Morphology, anatomy, ecology and palynology of two *Centaurea* species from Turkey. Bangladesh J. Bot. 37(1): 67-74.
- Chaidee, A., S. Chadchawan and R. Virabalin. 1998. Water Hyacinth; Stomatal Response to Light Quality. [Online]. Available: <http://kucon.lib.ku.ac.th/Fulltext/KC3605014.pdf> (12 July 2010). (in Thai)
- Chaiyasut, K. 1989. Cytotaxonomy of *Zephyranthes*. Department of Botany, Faculty of Science, Chulalongkorn University, Bangkok. 259 p. (in Thai)
- Chanaken, W. 2007. Characteristics, Growth and Development of Some Terrestrial Orchids. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 178 p. (in Thai)

- Chankhum, B. 2001. Factors Affecting Cormel Formation of Gladiolus. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 156 p. (in Thai)
- Charoenchai, P. 1998. Study on stomata of some ferns in Thailand. Thesis for Master Degree of Science (Botany), Kasetsart University. 305 p. (in Thai)
- Chawalid, T. 2003. Hybridization of *Amaryllis*. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 106 p. (in Thai)
- Cheadle, V.I. 1953. Independent origin of vessels in the monocotyledons and dicotyledons. *Phytomorph.* 3: 23-44.
- Chen, Z.Y. 1992. Cytology of Zingiberaceae. p. 19-25. In Laboratory Manual for the Training Course on Cytotaxonomy of Zingiberaceae and Some Selected Plants. Faculty of Sciences, The Prince of Songkla University, Songkla. 71 p.
- Chen, S. and R. Ueda. 1977. Pollen morphology and germination in *Narcissus*. *Bot. Mag. Tokyo* 90: 277-290.
- Chengkun, H., L. Jiashen, G. Suzhi, Z. Min and C. Wensheng. 1995. The relationship between geographic distribution and the genetic difference of peroxidase isozyme of ginger germplasm in Fujian. *Acta Hort.* 402: 125-132.
- Chidburee, A. 2008. Effects of Day Length and Red Light on Growth of *Curcuma alismatifolia* Gagnep. Rhizome. Thesis for Doctor of Philosophy (Horticulture), Chiang Mai University. 137 p.
- Chidburee, P., N. Intanum and A. Chidburee. 2008. Stomatal characteristics of different ploidy levels in some *Dendrobium* hybrids. *Journal of Agriculture* 24(3): 205-210.
- Choldumrongkul, A., P. Wasuwanich and W. Ratanaporncharoen. 1996. Pollen of Teak (*Tectona grandis* L.f.): Morphology and Viability of Pollen Grain. Proceedings of the 6th Silvicultural Seminar. May 21-24, 1996. Udon Thani, Thailand. p 33-45. (in Thai)
- Choticasatian, T. 2002. The Study of Chromosome of *Hippeastrum* spp. Biological Science, Rajabhat Institute Nakhon Pathom, Nakhon Pathom. 44 p. (in Thai)
- Cooper, R.L., J.M. Osborne and C.T. Philbrick. 2000. Comparative pollen morphology and ultrastructure of the Callitrichaceae. *Am. J. Bot.* 87(2): 161-175.

- Cutler, D.F., C.E.J. Botha and D.W. Stevenson. 2008. Plant Anatomy: An Applied Approach. Blackwell Publishing, Malden. 302 p.
- Dafni, A. and D. Firmage. 2000. Pollen viability and longevity: practical, ecological and evolutionary implications. *Plant Syst. Evol.* 222: 113-132.
- Darlington, C.D. and A.P. Wylie. 1955. Chromosome atlas of flowering plants. George Allen and Unwin, London. 519 p.
- Davis A.P. and J.R. Barnett. 1997. The leaf anatomy of the genus *Galanthus* L. (Amaryllidaceae J. St.-Hil.). *Bot. J. Linn. Soc.* 123(4): 333-352.
- De Hertogh, A. and L. Gallitano. 2000. Influence of photoperiod and day/night temperature on flowering of *Amaryllis (Hippeastrum)* cv. Apple Blossom. *Acta Hort.* 515: 129-134.
- De Munk, W.J. and C.T.C. Van der Hulst. 1989. Vuurbol on twikkelt twee bloemen in een bol. *Weekblad voor Bloembollencultuur*, 100: 32 cited by Theron, K.I. and De Hertogh, A.A. 2001. Amaryllidaceae: geophytic growth, development, and flowering. *Hort. Rev.* 25: 1-70.
- Dönmez, E.O. and S. Işık. 2008. Pollen morphology of Turkish Amaryllidaceae, Ixioliriaceae and Iridaceae. *Grana* 47: 15-38.
- Doorduin, J.C. 1990. Growth and development of *Hippeastrum* grown in glasshouses. *Acta Hort.* 266: 123-131.
- Doorduin, J.C. and W. Verkerke. 2002. Effects of bulb temperature on development of *Hippeastrum*. *Acta Hort.* 570: 313-315.
- Dore, C. and S. Essad. 1996. Estimation of ploidy level. p. 156. In Joseph, J., A.M. Chevre, R. Delourme, F. Eber and A.M. Tanguy (eds.). Techniques of Plant Cytogenetics. Science Publishers, New Hampshire. 180 p.
- Dyer, A.F. 1979. Investigating Chromosome. Edward Arnold Ltd., London. 138 p.
- Eksomtramage, L., S. Jornead, C. Junsui, R. Varitikorn and K. Pholphrugsa. 2002. Chromosome numbers of some flowering plants. *Songklanakarin Journal of Science and Technology* 24(4): 707-716.
- Erdtman, G. 1972. Pollen Morphology and Plant Taxonomy: Angiosperms (An Introduction to Palynology, volume I). Hafner Publishing Company, New York. 553 p.
- Esau, K. 1953. Plant Anatomy. John Wiley & sons, New York. 735 p.

- Esau, K. 1965. Plant Anatomy. 2nd ed. John Wiley & Sons, New York. 767 p.
- Esau, K. 1977. Anatomy of Seed Plants. 2nd ed. John Wiley & Sons, New York. 550 p.
- Evans, A.M. 1955. The production and identification of polyploids in red clover, white clover and lucerne. *New Phytol.* 514: 149-162.
- Evans, L.T. 1993. The physiology of flower induction-paradigms lost and paradigms regained. *Austr. J. Plant Physiol.* 20: 655-660.
- Evert, R. F. 2006. Esau's Plant Anatomy: Meristems, Cells, and Tissues of the Plant Body: Their Structure, Function and Development. 3rd ed. John Wiley & Sons, Hoboken, New Jersey. 601 p.
- Faegri, K. and J. Iversen. 1989. Textbook of Pollen Analysis. John Wiley & Sons, Chichester. 328 p.
- Fahn, A. 1990. Plant Anatomy. Pergamon Press., New York. 588 p.
- Fahn, A. 1974. Plant Anatomy. 2nd ed. Pergamon Press, Oxford. 611 p.
- Fernandez, P.E. 1970. Cytotaxonomy of two species of the genus *Hippeastrum* (Amaryllidaceae). *Cytologia* 35(3): 431-433.
- Foster, A.S. and E.M.Jr. Gifford. 1959. Comparative Morphology of Vascular Plants. W.H. Freeman and Company, San Francisco. 555 p.
- Fukai, S. 2009. Floral initiation and development of *Tricyrtis Hybrida*. *Tech. Bull. Fac. Agr. Kagawa Univ.* 61: 21-26.
- Fukai, S. and M. Goi. 2001. Floral initiation and development in *Lilium longiflorum* Thunb. *Tech. Bull. Fac. Agr. Kagawa Univ.* 53: 31-34.
- Fupanya, A. 2008. Characterization and Growth and Development of Some *Liparis* and *Malaxis*. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 216 p. (in Thai)
- Garber, E.D. 1972. Cytogenetics : An Introduction. McGraw-Hill, New York. 259 p.
- Gitz, D.C. and J.T. Baker. 2009. Methods for creating stomatal impressions directly onto archivable slides. *Agron. J.* 101 (1): 232-236.
- Goldblatt, P. 1984. Proposal to conserve 1,176 *Amaryllis* and typification of *A. belladonna* (Amaryllidaceae). *Taxon* 511-516.
- Hannantavivat, S. 1998. Flower Biology of *Eucrosia*. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 152 p. (in Thai)

- Hartmann, H.T. and D.E. Kester. 1968. Plant Propagation: Principles and Practice. 2nd ed. Prentice Hall, New Jersey. 702 p.
- Hartsema, A.M. 1961. Influence of temperature on flower formation and flowering of bulbous and tuberous plants. In W. Ruhland (ed.). Encyclopedia of Plant Physiology (Vol. 16, p. 123-167). Springer-Verlag, Berlin. 629 p.
- Hetherington, A.M. and F.I. Woodward. 2003. The role of stomata in sensing and driving environmental change. *Nature* 424: 901-908.
- Hilu, K.W. and J.L. Randall. 1984. Convenient method for studying grass leaf epidermis. *Taxon* 33(3): 413-415.
- Huang, T.C. 1972. Pollen Flora of Taiwan. National Taiwan University, Botany Department Press. 297 p.
- Hultine, K.R. and J.D. Marshall. 2001. A comparison of three methods for determining the stomatal density of pine needles. *J. Exp. Bot.* 52(355): 369-373.
- Huxley, A. (ed.). 1992. The New Royal Horticultural Society Dictionary of Gardening Volumn 2 (D-K). The Macmillan Press, London. 747 p.
- Jintapakorn, W. 1999. Growth and Development of *Amaryllis* Bulb. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 110 p. (in Thai)
- Johansen, D.A. 1940. Plant Microtechnique. McGraw-Hill Book, New York. 523 p.
- Jones, S.B. and A.L. Luchsinger. 1979. Plant Systematics. 2nd ed. McGraw-Hill Book, New York. 338 p.
- Junpugdee, A. and S. Te-chato. 2008. Relationship between ploidy level and chloroplasts number in guard cell of *Anthurium andraeanum* cv. Micky Mouse treated with colchicine. *Agricultural Sci. J.* 39(3) (Suppl.): 219-222.
- Junsongduang, A., A. Thammathaworn and P. Chantaranothai. 2002. Comparative leaf anatomy of Aristolochiaceae in Thailand. *KKU Res. J. (GS)* 2: 73-82.
- Junsongduang, A. 2003. Comparative anatomy of Aristolochiaceae in Thailand. Thesis for Master Degree of Science (Biology), Khon Kaen University. 105 p. (in Thai)
- Kaewduangta, W. 2008. Development of Creepers from Doi Khunwang as Ornamentals. Thesis for Doctor of Philosophy (Horticulture), Chiang Mai University. 81 p.

- Kantachot, C. 2008. Systematics of Polygonaceae in Thailand. Thesis for Doctor of Philosophy (Biology), Khon Kaen University. 354 p.
- Karihaloo, J.L. 1985. A 45 chromosome variety of *Hippeastrum* hybrids. Hort. Abstr. 59(2): 152.
- Karihaloo, J.L. 1989. Chromosome number and pollen viability in some *Hippeastrum* cultivars. Indian Journal of Horticulture 46: 100-102.
- Keating, R.C. 1996. Anther Investigations: A Review of Methods. p. 255-271. In W.G. D'Arcy and R.C. Keating (eds.). The Anther: Form, Function and Phylogeny. Cambridge University Press, Cambridge. 351 p.
- Keng, H. 1969. Orders and Families of Malayan Seed Plants. University of Malaya Press, Kuala Lumpur. 429 p.
- Kermanee, P. 2008. Techniques in Plant Tissue. Kasetsart University, Bangkok. 289 p. (in Thai)
- Khaleel, T.F. and D. Siemsen. 1989. Cytoembryology of *Amaryllis* hybrids. Can. J. Bot. 67(3): 837-847.
- Khaleel, T.F., S. Haven and T. Gilg. 1991. Karyomorphology of Amaryllis hybrids. Cytologia 56: 31-41.
- Kharazian, N. 2007. The taxonomy and variation of leaf anatomical characters in the genus *Aegilops* L. (Poaceae) in Iran. Turk. J. Bot. 31: 1-9.
- Khobkhet, O. 1971. Morphology of Some Plants known as "WAAN" in Amaryllidaceae. Thesis for Master Degree of Science (Biology), Kasetsart University. 89 p. (in Thai)
- Kijkar, P. 2001. Growth Cycle and Effect of Bulb Size on Growth and Development of Tuberose. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 86 p. (in Thai)
- Klongklaw, B. 2008. Characterization of *Spathoglottis eburnea* Gagnep. and *S. pubescens* Lindl. Collected from Khun Mae Khuang National Reserved Forest. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 122 p. (in Thai)
- Kosugi, K. 1942. On the flower bud differentiation in Easter lilies. J. Japan. Soc. Hort. Sci. 21: 59-62.

- Krachai, P., P. Chantaranothai and N. Piwpuan. 2009. Pollen characteristics of *Polygala*, *Salomonia* and *Xanthophyllum* (Polygalaceae) in Thailand. The Natural History Journal of Chulalongkorn University 9(1): 27-34.
- Krasaechai, A. 1996a. Cytogenetics in Agriculture (359704). Department of Horticulture, Faculty of Agriculture, Chiang Mai University, Chiang Mai. 89 p. (in Thai)
- Krasaechai, A. 1996b. Pollen: Cytogenetics in Agriculture (359704). Department of Horticulture, Faculty of Agriculture, Chiang Mai University, Chiang Mai. 60 p. (in Thai)
- Krishnaswami, R. and R. Andal. 1978. Stomatal chloroplast number in diploids and polyploids of *Gossypium*. Proceedings of the Indian Academy of Sciences (B) 87: 109-112.
- Kumsiri, W. 2002. Growth Cycle of *Globba* spp. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 167 p. (in Thai)
- Lakoet, C. 2004. Comparative Anatomy of Zingiberaceae in Phu Phan National Park. Thesis for Master Degree of Science (Biology), Khon Kaen University. 186 p. (in Thai)
- Lakshmi, N. 1980. Cytotaxonomical studies in eight genera of Amaryllidaceae. *Cytologia* 45: 663-673.
- Le Nard, M. 1983. Physiology and storage of bulbs: Concepts and nature of dormancy in bulbs. p. 191-230. In M. Lieberman (ed.). Postharvest Physiology and Crop Preservation. N.A.T.O. Advanced Study Institute Series, Series A: Life Science. Plenum Press, New York. 572 p.
- Le Nard, M. and A.A. De Hertogh. 1993. Bulb growth and development and flowering. p. 29-43. In A.A. De Hertogh and M. Le Nard (eds.). The Physiology of Flower Bulbs. Elsevier Science Publishers, Amsterdam. 811 p.
- Lemos Filho, J.P. and R.M.S. Isaias. 2004. Comparative stomatal conductance and chlorophyll a fluorescence in leaves vs. fruits of the cerrado legume tree, *Dalbergia miscolobium*. *Braz. J. Plant Physiol.* 16(2): 89-93.
- Lux, A., S. Morita, J. Abe and K. Ito. 2005. An improved method for clearing and staining free-hand sections and whole-mount samples. *Ann. Bot.* 96(6): 989-996.

- Mahmoud, A.A., A.B. Mohamed and F.A. Farahat. 1998. Pollen viability, germination and rate of pollen tube growth in some pomegranate cultivars (*Punica granatum* L.). [Online]. Available: http://digital.library.ksu.edu.sa/_V10M124R1279.pdf (26 July 2010).
- Meerow, A.W. 1989. Systematics of the Amazon lilies, *Eucharis* and *Caliphruria* (Amaryllidaceae). Ann. Missouri Bot. Gard. 76: 136-220.
- Meerow, A.W. 2000. Rio^{PPAF}, Sampa^{PPAF} and Bahia^{PPAF} three new triploid *Amaryllis* cultivars. HortScience 35(1): 147-149.
- Meerow, A.W. 2009. Tilting at windmills: 20 years of *Hippeastrum* breeding. Israel J. Plant Sci. 57(4): 303-313.
- Meerow, A.W. and B. Dehgan. 1985. The auriculate pollen grain of *Hymenocallis quitoensis* Herb. (Amaryllidaceae) and its systematic implications. Am. J. Bot. 72 (4): 540-547.
- Meerow, A.W. and B. Dehgan. 1988. Pollen morphology of the Eucharidae (Amaryllidaceae). Am. J. Bot. 75(12): 1,857-1,870.
- Meerow, A.W., T.K. Broschat and M.E. Kane. 1992. Breeding of new *Hippeastrum* cultivars using diploid species. Acta Hort. 325: 583-590.
- Meidner, H. and T.A. Mansfield. 1968. Physiology of stomata. McGraw-Hill, New York. 179 p.
- Meriç, F.D.C. and G. Hüseyinova. 2000. Some ultrastructural observations on calcium oxalate raphide crystal idioblasts and meristematic cells of the adventive root tips of *Sternbergia lutea* (L.) Ker-Gawl. ex Sprengel (Amaryllidaceae). Turk. J. Bot. 24: 71-80.
- Mishra, M.K. 1997. Stomatal characteristics at different ploidy levels in *Coffea* L. Ann. Bot. 80(5): 689-692.
- Mongkolrattanasit, N. 2001. Growth and Development of Two *Globba* Species. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 110 p. (in Thai)
- Moore, P.D., J.A. Webb and M.E. Collinson. 1991. Pollen Analysis. 2nd ed. Blackwell Scientific Publications. Oxford. 216 p.

- Motum, G.J. and P.B. Goodwin. 1987. Floral initiation in kangaroo paw (*Anigozanthos* spp.): A scanning electron microscope study. *Scientia Horticulturae* 32(1-2): 115-122.
- Ockenga, S. 2002. *Amaryllis*. Clarkson Potter/Publishers, New York. 95 p.
- Okubo, H. 1993. *Hippeastrum*. p. 321-334. In A.A. De Hertogh and M. Le Nard (eds.). *The Physiology of Flower Bulbs*. Elsevier, Amsterdam. 811 p.
- Özdemir, C. and E. Alçitepe. 2010. Morphological and anatomical study on *Galanthus gracilis* (Amaryllidaceae). *Acta Bot. Hung.* 52(1-2): 151-157.
- Panusan, W. 1993. *Amaryllis*. p. 45-54. In Kehakaset Magazine (ed.). *Ornamental Plants Industry*. Kehakaset Magazine, Bangkok. 206 p.
- Patanakanog, S. 1999. Varietal Improvement of *Hippeastrum* spp. Thesis for Doctor of Philosophy (Horticulture), Kasetsart University. 134 p.
- Patanakanog, S. 2001. Improvement of Thai *Hippeastrum*. Faculty of Agricultural Technology, Valaya Alongkorn Rajabhat University, Prathom Thani. 64 p.
- Paula, C.B. 2006. Morphological Analysis of Tropical Bulbs and Environmental Effect on Flowering and Bulb Development of *Habranthus robustus* and *Zephyranthes* spp. Thesis for Master of Science, University of Florida. 127 p.
- Pearson, H.M. and P.M. Harney. 1984. Pollen viability in *Rosa*. *HortScience* 19(5): 710-711.
- Permlap, S. 1996. Study on stomata of some aromatic plants. Thesis for Master Degree of Science (Botany), Kasetsart University. 179 p. (in Thai)
- Peruzzi, L., C. Di Benedetto, G. Aquaro and K. Francesca. 2008. The genus *Sternbergia* Waldst. & Kit. (Amaryllidaceae) in Italy: Contribution to the cytbotanical and morpho-anatomical knowledge. *Caryologia* 61(1): 107-113.
- Perveen, A. and M. Qaiser. 2008. Pollen flora of Pakistan-LVIII. Celastraceae. *Pak. J. Bot.* 40(3): 957-962.
- Perveen, A., R. Abid and R. Fatima. 2007. Stomatal types of some dicots within flora of Karachi, Pakistan. *Pak. J. Bot.* 39(4): 1,017-1,023.
- Pfeiffer, N.E. 1936. Longevity of pollen of *Lilium* and hybrid *Amaryllis*. Contribn. Boyce Thompson Inst. 8: 141-150.

- Phetchaburee, S. 1994. Studies on Bulb Sizes, Postharvest Handlings of Bulbs and Flowers of *Phaedranassa* sp. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 118 p. (in Thai)
- Phornsawatchai, T. 2008. Factors Influencing *in vitro* Tuber Growth and Development, and Internal Changes in *Pecteilis sagarikii* Seidenf. Thesis for Doctor of Philosophy (Horticulture), Chiang Mai University. 112 p.
- Pindel, Z. 1990. Effect of conditions and time of seed storage on the germinating ability in *Hippeastrum*. Seria B, Rosliny Ozdobne 15: 51-58.
- Poggio L, G. Gonza'lez and C.A. Naranjo. 2007. Chromosome studies in *Hippeastrum* (Amaryllidaceae): variation in genome size. Bot. J. Linn. Soc. 155: 171-178.
- Poruksa, R. 1997. Genetic Inheritance of Crown of Thorns (*Euphorbia splendens* Bojer ex Hook.f.) Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 103 p. (in Thai)
- Prabhawit, W. 1988. Studies on stomatal behavior in coffee (*Coffea arabica* L.) under different conditions. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 74 p. (in Thai)
- Prarasi, J. 2006. Characterization of *Eulophia graminea* Lindl. at The Huai Hong Khrai Royal Development Study Centre. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 86 p. (in Thai)
- Przywara, L., K.K. Pandey and P.M. Sanders. 1988. Length of stomata as an indicator of ploidy level in *Actinidia deliciosa*. New Zealand J. Bot. 26: 179-182.
- Puangkaew, W. 2001. Floral Growth and Development of Brisbane LiLy (*Euryclodes amboinensis* Lindl.). Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 121 p. (in Thai)
- Pubuopiend, J. 1992. Growth and Floral Development of *Curcuma sparganifolia* Gagnep. H. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 83 p. (in Thai)
- Read, V.M. 2004. *Hippeastrum*: the Gardener's *Amaryllis*. Timber Press, Portland. 296 p.
- Rees, A.R. 1972. The Growth of Bulbs. Academic Press Inc., London. 311 p.
- Rees, A.R. 1981. Concepts of dormancy as illustrated by the tulip and other bulbs. Ann. Appl. Biol. 98: 544-548.

- Rees, A.R. 1985. *Hippeastrum*. p. 294-296. In A.H. Halevy (ed.). Handbook of Flowering Vol. I. CRC Press, Boca Raton, Florida. 311 p.
- Rees, A.R. 1992. Ornamental Bulbs, Corms and Tubers. CAB International, Wallingford. 220 p.
- Ren, X.F., S.B. Zhou, Y. Zheng and G. Xin-Hu. 1995. Studies on the pollen morphology of the genus *Lycoris* in China. *Acta Metallurgica Sinica* 17(02):1-3.
- Roh, M.S. and A.W. Meerow. 1992. Flowering of *Eucrosia* as influenced by bulb weight. *HortScience* 27(11): 1,227.
- Roh, M.S., R.H. Lawson, K.C. Gross and A.W. Meerow. 1992. Flower bud initiation and development of *Eucrosia* as influenced by bulb storage temperature. *Acta Hort* 325: 105-111.
- Ruksat, L. 1991. Pollen Grains. Department of Botany, Faculty of Science, Kasetsart University, Bangkok. 157 p. (in Thai)
- Ruksat, L. 1996. Pollen grains. Odeon Store Press, Bangkok. 145 p.
- Ruzin, S.E. 1999. Plant Microtechnique and Microscopy. Oxford University Press, New York. 322 p.
- Sahin, N.F. 1998. Morphological, anatomical and physiological studies on *Galanthus ikariae* Baker and *G. rizehensis* Stern (Amaryllidaceae) grown around NE Turkey. *Pak. J. Bot.* 30(1): 117-131.
- Sahin, N.F. 2000. Pollen morphology of *Galanthus elwesii* Hooker. (Amaryllidaceae). *Pak. J. Bot.* 32(1): 5-6.
- Saisuwan, S. 2008. Characterization of *Calanthe cardioglossa* Schltr. from Three Growth Habitats. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 114 p. (in Thai)
- Sakultarl, P. 2007. Some stomatal attributes of mixed deciduous forest (MDF) and dry evergreen forest (DEF) species at tumbon Lintin, amphoe Thong Pha Phum, changwat Kanchanaburi. Proceedings of the 8th Silvicultural Seminar. June 6-8, 2007. Bangkok, Thailand. p. 134-143. (in Thai)
- Salisbury, F.M. 1966. The Flowering Process. Pergamon Press, London. 243 p.
- Samatthiya, E. 2000. Growth and Development of *Haemanthus*. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 78 p. (in Thai)

- Sandler-Ziv, D., A. Cohen, A. Ion and K. Finte. 2004. The breeding of novel types of *Hippeastrum (Amaryllis)* by interspecific hybridization. Nobel Advertising, Tel Aviv. p. 14-17 cited by Benschop, M., R. Kamenetsky, M. Le Nard, H. Okubo and A.A. De Hertogh. 2010. The Global Flower Bulb Industry: Production, Utilization, Research. p. 1-115. In J. Janick (eds.). Hort. Rev. Volume 36. John Wiley & Sons, New Jersey. 371 p.
- Sarawichit, M., P. Chantaranothai and A. Thammathaworn. 2006. Taxonomy of subtribe Justiciinae (Acanthaceae) in northeastern Thailand. BRT research reports. p. 139-148.
- Sass, J.E. 1966. Botanical Microtechnique. The Iowa State University Press, Iowa. 228 p.
- Schulz, P. 1954. *Amaryllis* and How to Grow Them. M. Barrows & Company, New York. 128 p.
- Sharma, A.K. and A. Sharma. 1980. Chromosome Techniques: Theory and Practice 3rd ed. Butterworths, London. 711 p.
- Sharma, D.R., R. Kaur and K. Kumar. 1996. Embryo rescue in plants: a review. *Euphytica* 89(3): 325-337.
- Sharma, S., M.B. Singh and C.P. Malik. 1982. Dark CO₂ fixation during germination of *Amaryllis vittata* pollen in suspension cultures. *Hort. Abstr.* 52(5): 293-294.
- Shivanna, K.R. 2003. Pollen Biology and Biotechnology. Science Publishers, New Hampshire. 301 p.
- Shivanna, K.R. and B.M. Johri. 1985. The Angiosperm Pollen: Structure and Function. Wiley Eastern Limited, New Delhi. 374 p.
- Shou-Biao, Z., L. Qi, L. Jin-Hua and W. Ying. 2006. Comparative anatomy of leaves in 12 species of *Lycoris* (Amaryllidaceae). *Acta Metallurgica Sinica* 28(05): 473-480.
- Sidhu, R.K., A.S. Basra and C.P. Malik. 1986. Hormonal effects on tube elongation, ¹⁴CO₂ fixation and phosphoenolpyruvate carboxylase activity in Amaryllis pollen: Promotion by abscissic acid. *Hort. Abstr.* 56(10): 856.
- Simpson, M.G. 2006. Plant Systematics. Elsevier Academic Press, New York. 590 p.
- Singh, R.J. 1993. Plant Cytogenetics. CRC Press, Inc., Florida. 391 p.

- Singh, V. 1972. Floral morphology of the Amaryllidaceae. I. Subfamily Amaryllidoideae. Can. J. Bot. 50(7): 1,555-1,565.
- Sirikhum, P., S. Thumdee and C. Tiyayon. 2008. "Chromosome Investigation of Amaryllis Hybrids". Poster BP_029, The 7th National Horticultural Congress, Naresuan University, Phitsanulok.
- Slabbert, M.M., 1997. Inflorescence initiation and development in *Cyrtanthus elatus* (Jacq. Traub). Scientia Horticulturae 69: 61-71.
- Smitinand, T. 2001. Thai Plant Names (Revised Edition 2001). The Forest Herbarium. Royal Forest Department, Bangkok. 810 p. (in Thai)
- Soontornchainakaeng, P. (ed.). 2005. Reports in Chromosome Numbers of Plants in Thailand. BRT Program. Chuan Printing Press Ltd., Bangkok. 103 p.
- Soontornchainakaeng, P. and K. Chaiyasut. 1996. Cytogenetic study of some Thai species of flowering plants. Thai For. Bull. (Bot.) 24: 50-61.
- Soontornchainakaeng, P. 2006. Anatomy and Morphology of Flowering Plants. 2nd ed. Top Ltd., Bangkok. 400 p. (in Thai)
- Sopinvetaya, V. 1980. Colchicine-induced polyploid in *Amaryllis* bulb. Thesis for Master Degree of Science (Horticulture), Kasetsart University. 49 p. (in Thai)
- Sotthikul, C. and P. Apavatjrut. 2003. Pollen morphology of some *Globba* species. Agricultural Sci. J. 34 (1-3) (Suppl.): 94-97.
- Speckmann, G.J., J. Post, Jr. and H. Dijkstra. 1965. The length of stomata as an indicator for polyploidy in rye-grass. Euphytica 14: 225-230.
- Srinual, A., A. Thammathaworn and R. Pooma. 2009. Comparative leaf epidermis of some Dipterocarpaceae in Thailand. KKU Res. J. (GS) 9(1): 18-29.
- Stebbins, G.L. and G.S. Khush. 1961. Variation in the organization of the stomatal complex in the leaf epidermis of monocotyledons and its bearing on their phylogeny. Am. J. Bot. 48(1): 51-59.
- Stepka, M., F. Ciampolini, M. Charzynska and M. Cresti. 2000. Localization of pectins in the pollen tube wall of *Ornithogalum virens* L. Does the pattern of pectin distribution depend on the growth rate of the pollen tube. Planta 210: 630-635.
- Stern, K.R., S. Jansky and J.E. Bidlack. 2003. Introductory Plant Biology. McGraw-Hill, New York. 624 p.

- Stern, W.L. and W.S. Judd. 1999. Comparative vegetative anatomy and systematics of *Vanilla* (Orchidaceae). Bot. J. Linn. Soc. 131(4): 353-382.
- Stuessy, T.F. 1990. Plant Taxonomy: The Systematic Evaluation of Comparative Data. Columbia University Press, New York. 514 p.
- Sudsangwan, W. 2001. Hybridization of Local *Amaryllis*. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 91 p. (in Thai)
- Sukkasem, J. 2007. Characterization and Growth and Development of *Calanthe cardioglossa* Schltr. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 89 p. (in Thai)
- Sultan, H.A.S., B.I. Abu Elreish and S.M. Yagi. 2010. Anatomical and phytochemical studies of the leaves and Roots of *Urginea grandiflora* Bak. and *Pancratium tortuosum* Herbert. Ethnobotanical Leaflets 14: 826-835.
- Surajid, P. 2001. Propagation of *Haemanthus*. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 99 p. (in Thai)
- Surapornpiboon, P. 1996. Bulb Formation of *Phaedranassa* spp. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 175 p. (in Thai)
- Suwanthada, C. 1990. Flowerbulbs. Department of Horticulture, Faculty of Agriculture, Chiang Mai University, Chiang Mai. 153 p. (in Thai)
- Suwanthada, C., P. Apavatjrut and P. Voraurai. 1997. Flower formation of flowerbulbs. Proceedings of the 3rd National Ornamental Conference. December 11-13, 1997. Chiang Mai, Thailand. p. 1-6. (in Thai)
- Talingtaisong, N. 2008. Comparative Studies of Leaf Anatomy of *Lagerstroemia* L. (Lythraceae) in Thailand. Thesis for Master Degree of Education (Biology), Srinakharinwirot University. 131 p. (in Thai)
- Thahanthai, A. 2010. Floral and Bulb Development of Terrestrial Orchids, *Liparis paradoxa* (Lindl.) Rchb. f., *L. regnieri* Finet, *L. siamensis* Rolfe ex Downie, *L. sutepensis* Rolfe ex Downie and *Malaxis latifolia* J. E. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 180 p. (in Thai)
- Thainurak, H. 2008. Characterization and Growth Cycle of *Nervilia aragoana* Gaud. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 95 p. (in Thai)

- Thatsaneeyakorn, J. 2000. Diversity of Herbaceous Papilionaceae in Upper North of Thailand. Thesis for Master Degree of Science (Biology), Chiang Mai University. 361 p. (in Thai)
- Theron, K.I. and A.A. De Hertogh. 2001. Amaryllidaceae: geophytic growth, development, and flowering. Hort. Rev. 25: 1-70.
- Thind, S.K. and C.P. Malik. 1996. Proline protects pollen germination under adverse temperature in *Amaryllis vittata*. Hort. Abstr. 66(3): 303.
- Thind, S.K., D.S. Bhatia and C.P. Malik. 1996. Plant hormones in developing and germinating pollen grains of *Amaryllis vittata* Ait. Hort. Abstr. 66(3): 303.
- Thitimetharoch, T. and A. Thammathaworn. 2007. Leaf anatomy of Coca (*Erythroxylum coca* Lam.: Erythroxylaceae) in Khon Kaen University. KKU Res. J. 12(4): 381-386.
- Thongsan, A. 2008. Characterization and Hybridization of *Geodorum* spp. Collected From Khun Mae Khuang National Reserved Forest. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 174 p. (in Thai)
- Traub, H.P. 1958. The *Amaryllis* Manual. The Macmillan Company, New York. 338 p.
- Uncharisanggard, P. 2008. Characterization, Growth and Development and Aseptic Propagation of *Nervilia aragoana* Gaud. var. HKRC01 and HKRC02. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 112 p. (in Thai)
- Van Tuyl, J.M. 1997. Interspecific hybridization of flower bulbs: A review. Acta Hort. 430: 465-476.
- Van Tuyl, J.M., K. Van de Sande, M.D. Van Diën, T.P. Straathof and H.M.C. Van Holsteijn. 1989. Overcoming interspecific crossing barriers in *Lilium* by ovary and embryo culture. Acta Hort. 266: 317-322.
- Vijverberg, A. J. 1981. Growing Amaryllis. Grower Books, London. 57 p.
- Visser, T., D.P. De Vries, G.W. Welles and J.A.M. Scheurink. 1977a. A Hybrid Tea Rose Pollen I Germination and Storage. Euphytica 26: 721-728.
- Visser, T., D.P. De Vries, J.A.M. Scheurink and G.W. Welles. 1977b. A Hybrid Tea Rose Pollen II Inheritance of Pollen Viability. Euphytica 26: 729-732.

- Vitayasak, D. 1996. Morphological and Anatomical Characteristics and Cytology of *Hippeastrum* spp. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 105 p. (in Thai)
- Vutthijumnonk, R. 1990. Studies of Floral Development of *Phaedranassa* spp. Thesis for Master Degree of Science (Horticulture), Chiang Mai University. 95 p. (in Thai)
- Williams, M. and T.R. Dudley. 1984. Chromosome count for *Hippeastrum iguazuicum*. *Taxon* 33(2): 271-275.
- Willmer, C.M. 1983. Stomata. Longman, New York. 166 p.
- Willmer, C., and M. Fricker. 1996. Stomata. 2nd ed. Chapman & Hall, London. 375 p.
- Wiriyacharee, P. 2002. Principles of Microbial Analysis. Department of Product Development Technology, Faculty of Agro-Industry, Chiangmai University, Chiangmai. 232 p. (in Thai)
- Withner, C.L. 1974. The Orchids Scientific Studies. A Wiley-Interscience Publication. New York. 604 p.
- Wongpiyasatid, A., P. Hormchan, K. Chusreeaeom and N. Ratanadilok. 2005. Stomatal size, stomatal frequency and pollen grain diameter as indirect method for identification of ploidy levels in cotton. *Kasetsart J. (Nat. Sci.)* 39(4): 552-559.
- Wongsawad, P., C. Wongsawad and S. Suwattanacourt. 1996. Scanning Electron Microscopy: Application for Pollen Grains of Locally-Grown Vegetables in Chiang Mai. Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai. 66 p. (in Thai)
- Yeung, E. 1998. A Beginner's Guide to the Study of Plant Structure. p. 125-142. In S.J. Karcher (ed.). Tested Studies for Laboratory Teaching Volume 19. Proceedings of the 19th Workshop/Conference of the Association for Biology Laboratory Education (ABLE) 19: 365.
- Zaccai, M. and N. Edri. 2002. Floral transition in lisianthus (*Eustoma grandiflorum*). *Scientia Horticulturae*. 95(4): 333-340.
- Zavada, M.S. 1983. Comparative morphology of monocot pollen and evolutionary trends of apertures and wall structures. *Bot. Rev.* 49(4): 331-379.
- Zhang, S.A. and T. Pinfang. 1995. An experiment on the culture of *Hippeastrum*. *Journal of Shanghai Agricultural College* 13(2): 139-143.