

## REFERENCES

- Adam, R.P., T. Demeke and H.A. Abulfatih. 1993. RAPD DNA fingerprints and terpenoids: clues to post migrations of *Juniperus* in Arabia and East Africa. *Theor. Appl. Genet.* 87: 22-26.
- Apisittivanid, S., S. Masuthon, P. Puktongkam, S. Suputtitada and S. Piyachokkanakun. 1995. Genetic diversity of rice (*Oryza* spp.) using RAPD techniques. *Kasetsart Journal (science)* 29(4): 454-461.
- Arunyawat, U. 1997. Random Amplified Polymorphic DNA. MS thesis of Science in Biology, Faculty of Science, Chiang Mai University, Chiang Mai. 70 p.
- Autchararit J., W. Punyayum and A. Ratchatakomut. 1983. The study of fungal resistance in some herb. Faculty of Pharmacy, Mahidol University, Bangkok. 13 p.
- Auttatinpahorkun, W. and M. Auttatinpahorkun. 1993. The theory of PCR Technology. Faculty of Medicinal Technology, Mahidol University. 208 pp.
- Awise, J.C., J. Arnold, R.M. Ball, E. Bermigham, T. Lamb, J.E. Neigel, C.A. Reeb and N.C. Saunders. 1987. Intraspecific phylogeography: the mitochondrial DNA bridge between population genetics and systematics. *Ann. Rev. Ecol.* 18: 489-522.
- Bai, Y., T.E. Michaels and K.P. Pauls. 1997. Identification of RAPD markers linked to common bacterial blight resistance genes in *Phaseolus vulgaris* L. *Genome* 40: 544-551.
- Barik, B.R., A.G. Kunda and A.K. Dey. 1987. *Phytochem.* 27(7): 2126-2127.
- Bhasabuttra, T. 1997. The Effects of some extracts on mango anthracnose fungus *Colletotrichum gloeosporioides* (Penz.) Sacc. MS thesis graduate school, Kasetsart university, Bangkok. 85p.
- Castiglione, S., G. Wang, G. Damiani, C. Bandi, S. Bisoffi and F. Sala. 1993. RAPD fingerprints for identification and taxonomic studies of elite poplar (*Populus* spp.) clones. *Theor. Appl. Genet.* 87: 54-59.
- Chiangda, J. 1998. Random amplified polymorphic DNA technique for genetic analysis of Litchi (*Litchi chinensis* Sonn.). MS thesis of Science in Biology, Faculty of Science, Chiang Mai University, Chiang Mai. 64 p.

- Chinsiriwong Y. and S. Herunkan (1983). 1983. The study of chemical substance for anti fungal in galanga. Faculty of Pharmacy, Mahidol University, Bangkok. 16 p.
- Davis, L.G., J.B. Battey and W.M. Kuehl. 1994. Basic method in molecular biology. 2<sup>nd</sup> ed. Connecticut: Appleton & Lange. pp. 113-178.
- De Pooter, H.L., H.N. Omar, B.A. Coolseat and N.M. Schamp. 1985. *Phytochem.* 24(1): 93-96.
- Dudley, J.W. 1994. Comparison of Genetic Distance Estimators Using Molecular Marker Data. Proc ASHS/CSSA Symp on Analysis of Molec Marker Data. pp. 3-7.
- Ellsworth, D.L., K.D. Rittenhouse and P.L. Honeycutt. 1993. Artfactual variation in randomly amplified polymorphic DNA banding patterns. *BioTechniques* 14: 214-217.
- Fico, G., A. Spada, A. Braca, E. Agradi, I. Morelli and F. Tome. 2003. RAPD analysis and flavonoid composition of *Aconitum* as an aid for taxonomic discrimination. *Biochemical Systematics and Ecology* 31: 293-301.
- Garcia, G.M., H.T. Stalker, E. Shroeder and G. Kochert. 1996. Identification of RAPD, SCAR, and RFLP markers tightly linked to nematode resistance genes introgressed from *Arachis cardenasii* into *Arachis hypogaea*. *Genome* 39: 836-845.
- Hadrys, H., M. Balick and B. Schierwater. 1992. Applications of random amplified polymorphic DNA (RAPD) in molecular ecology. *Mol. Ecol.* 1: 55-63.
- Handy, E.S.C. and E.G. Handy. 1972. Native planters in Hawaii: their life, lore, and environment. Bernice P. Bishop Museum Bull 233, Bishop Museum Press, Honolulu, Hawaii.
- Hoy, M.A. 1994. Insect molecular genetics and introduction to principles and applications. London: Academic Press. pp. 546.
- Hu, J. and C.F. Quiros. 1991. Identification of broccoli and cauliflower cultivars with RAPD markers. *Plant Cell Report* 10: 505-511.
- Irwin, S.V., P. Kaufusi, K. Banks, R. de la Pena and J.J. Cho. 1998. Molecular characterization of taro (*Colocasia esculenta*) using RAPD markers. *Euphytica* 99: 183-189.
- Itokawa, H., H. Morita, T. Sumitomo, N. Totsuka and K. Takeya. 1987. Antitumour principles from *Alpinia galanga*. *Planta Med.* 54(2): 32-33.
- Jamjunta, N. 1996. Identification of *Pueraria* spp. by RAPD. MS thesis of Biology, Faculty of graduate school, Chiang Mai University, Chiang Mai. 82 p.

- Jaradrattanapaiboon, A. 2002. Effect of crude extracts from galanga (*Alpinia galanga* Sw.) on Anthracnose and growth of mango cv. Nam Dok Mai. MS thesis of Science (Agriculture), Faculty of Agriculture, Chiang Mai University, Chiang Mai. 98 p.
- Jariyanusorn, J. 2002. Formulation development of extracts from galanga (*Alpinia galanga* Sw.), sweet flag (*Acorus calamus* L.) and *Rhinacanthus nasutus* (Kurz.) for controlling anthracnose postharvest disease of mango. Doctor of Philosophy, Faculty of Agriculture, Chiang Mai University, Chiang Mai. 207p.
- Joshi, C.P. and H.T. Nguyen. 1993. RAPD (Random Amplified Polymorphic DNA) analysis based intervarietal genetic relationships among hexaploid wheats. *Plant Science* 93: 95-103.
- Kamaley, J.C. and D.W. Carey. 1995. Application of RAPD-PCR markers for identification and genetic analysis of American elm (*Ulmus americana* L.) selection. *Journal of Environmental Horticulture* 13(4): 155-159.
- Keil, M. and A.R. Griffin. 1994. Use of RAPD markers in the discrimination and verification of genotypes in *Eucalyptus*. *Theor. Appl. Genet.* 89: 442-450.
- Klanginsirikul, P. 2000. DNA fingerprinting of upland rices by RAPD techniques. Undergraduate Special Project Report of Science in Biology, Faculty of Science, Chiang Mai University, Chiang Mai. 24 p.
- Ko, H.L., D.C. Cowan, R.J. Henry, G.C. Graham, A.B. Blankeney and L.G. Lewin. 1994. Random Amplified Polymorphic DNA analysis of Australian rice (*Oryza sativa* L.) varieties. *Euphytica* 80: 179-189.
- Krauss, B.H. 1993. Plant in Hawaiian culture. Univ Hawaii Press, Honolulu.
- Kuntapanom, P. and S. Ikeda. 1998. Techniques used in orchid DNA isolation. p. 59-65. Trends of Biotechnology for the Agricultural Improvement IV. Pang Suan Kaew Hotel, Chiang Mai, Thailand, June 25 1998.
- Lashermes, P., P. Trouslot, F. Anthony, M.C. Combes and A. Charrier. 1996. Genetic diversity for RAPD markers between cultivated and wild accession of *Coffea arabica*. *Euphytica* 87: 59-64.
- Lavi, U., P. Cregan, T. Schaap & J. Hillel. 1994. Application of DNA markers for identification and breeding of perennial fruit crops. *Plant Breed Rev.* 12: 195-226.

- Lertvirasawat, S. 1997. Chemical Compound inhibit fungi and bacteria from some tube crop. MS thesis of Chemistry, Faculty of Chemistry, Chiang Mai University, Chiang Mai, 102 p.
- Marillia, E.F. and G.J. Scoles. 1996. The use of RAPD markers in *Hordeum* phylogeny. *Genome* 39: 646-654.
- Marson, P.A., G. Egidy, G. Monfredini, S.di. Silvestro, M. Motto and S.S. Di. 1993. RAPD markers in maize genetic analysis. *Maydica* 38(4): 259-264.
- Martin, G.B. , J.G.K. Williams and S.D. Tanksley. 1991. Rapid identification of markers linked to a *Pseudomonas* resistance gene in tomato by using random primers and near-isogenic accessions. *Proc. Natl. Acad. Sci. USA* 88: 2336-2340.
- McLain, D.K., D.M. Wesson, J.H. Olover, J.R. and F.H. Collins. 1995. Variation in ribosomal DNA internal transcribed spacers I among eastern populations of *Ixodes scapularis* (Acari: Ixodidae). *Ent. Soc. Am.* 32(3): 353-360.
- Medicinal Plants in Siriruckhachati Garden: The history and evolution of traditional Thai medicine and Thai medicinal plants. 1991. Faculty of Pharmacy, Mahidol University, Bangkok. p 225-228.
- Michelmore, R.W., I. Paran and R.V. Kesseli. 1991. Identification of markers linked to disease resistance genes by bulked segregant analysis: a rapid method to detect markers in specific genomic regions using segregation populations. *Proc. Natl. Acad. Sci. USA* 88: 9828-9832.
- Mokkhasmit M., W. Ngarmwathana, K. Sawasdimongkol and U. Permpiphat. 1971. Pharmacological evaluation of Thai medicinal plants. *J Med Ass Thailand*, 54(7): 490-504.
- Morita, H. and H. Itokawa. 1987. Antitumour principles from *Alpinia galanga*. *Planta Med.* 54 (2): 117-120.
- Munthali, M.T., H.J. Newbury and B.V. Ford-Lloyd. 1996. The detection of somaclonal variants of beet using RAPD. *Plant Cell Report* 15(7): 474-478.
- Navajas, M., D. Fournier, J. Lagnel, J. Gutierrez and P. Boursot. 1996. Mitochondrial COI sequences in mites: evidence for variations in base composition. *Insect Mol. Biol.* 5(4): 281-285.

- Newton, C.R. and A. Graham. 1994. PCR (Introduction to Biotechniques). Bios scientific publishers, pp.161.
- Norris, D.E., J.S.H. Klompen, J.E. Keirans and W. Blackiv. 1996. Population genetics of *Ixodes scapularis* (Acari: Ixodidae) based on mitochondrial 16S and 12S genes. *Ent. Soc. Am.* 33(1): 78-89.
- Ochiai, T., V.X. Nguyen, M. Tahara and H. Yoshino. 2001. Geographical differentiation of Asian taro, *Colacasia esculenta* (L.) Schott, detected by RAPD and isozyme analyses, *Euphytica* 122: 219-234.
- Perron, M., A.G. Gordon and J. Bousquet. 1995. Species-specific RAPD fingerprints for the closely related *Picea mariana* and *P. rubens*. *Theor. Appl. Genet.* 91: 142-149.
- Pillay, M. and S.T. Kenny. 1996. Random amplified polymorphic DNA (RAPD) markers in hop, *Humulus lupulus*: level of genetic variability and segregation in F<sub>1</sub> progeny. *Theor. Appl. Genet.* 92: 334-339.
- Pomkuntikaew, T. 2001. Genetic variation of upland rice and lowland rice by HAT-RAPD Technique. Undergraduate Special Project Report of Science in Biology, Faculty of Science, Chiang Mai University, Chiang Mai. 29 p.
- Popluechai, S. 2001. Genetic identification of *Pueraria* spp. and *P. mirifica* Airy Shaw and Suvatabandhu accessions by HAT-RAPD. Undergraduate Special Project Report of Science in Biology, Faculty of Science, Chiang Mai University, Chiang Mai. 57 p.
- Porter, C.H. and F.H. Collins. 1991. Species-diagnostic differences in a ribosomal DNA internal transcribed spacer from the sibling species *Anopheles freeborni* and *Anopheles hermsi* (Diptera: Culicidae). *Am. J. Trop. Med. Hyg.* 45(2): 271-279.
- Rearungchom, T. 1993. Possible mechanism of inhibition of aflatoxin-B1 mutagenesis by Thai medicinal plants, *Murdannia loriformis* and *Alpinia galanga*. MS thesis of Science Biochemistry, Faculty of Medicine, Chiang Mai University, Chiang Mai. 104 p.
- Reiter, R.S., J.G.K. Williams, K.A. Feldman, J.A. Rafalski, S.A. Tingey and P.A. Scolnik. 1992. Global and local genome mapping in *Arabidopsis thaliana* by using recombinant inbred accessions and random amplified polymorphic DNAs. *Proc. Natl. Acad. Sci. USA* 89: 1477-1481.



- Rinderer, T.E. 1986 . Bee Genetics and Breeding, Orlando, Florida: Academic Press. pp. 23-30.
- Rohlf, F.J. 1994. Numerical Taxonomy and Multivariate Analysis System. Exeter Software, Setauket, New York.
- Sakdren, N., P. Srifa and W. Rintjaichon. 1994. Using of Random Amplified Polymorphic DNA Technique for Classification of the elephant grass varieties in Thailand. Progress report of developing of the elephant grass to use in Royal Project, Kasetsart university.
- Sappal, N.P., R.J. Jeng, M. Hubbes and F. Liu. 1995. Restriction fragment length polymorphisms in polymerase chain reaction amplified ribosomal DNAs of three Trichogramma (Hymenoptera: Trichogrammatidae) species. *Genome* 38: 419-425.
- Smith, J.S. and O.S. Smith. 1991. Restriction fragment length polymorphisms can differentiate among U.S. maize hybrids. *Crop Science* 31: 893-899.
- Songram, O. 1997. Genetic variation of *Apis cerana* in Thailand inferred by PCR-RFLP analysis Of the mitochondrial ATPase6-ATPase8 gene. MS thesis graduate school, Chulalongkorn university, Bangkok. 121p.
- Srisornkarnpol, A. 1996. Chemical compound from galanga (*Languas galanga* Linn.), *Achrasma* spp. and *Piper ribosoides* Wall. MS thesis of Chemistry, Faculty of graduate school, Chiang Mai University, Chiang Mai, 102 p.
- Stuber, C.W. 1992. Biochemical and molecular markers in plant breeding. *Plant Breed. Rev.* 9: 37-61.
- Swoboda, I. and P.L. Bhalla. 1997. RAPD analysis of genetic variation in Australian fan flower, *Scaevola*. *Genome* 40: 600-606.
- Tanaka, T., K. Kawabata, M. Kakumoto, H. Makita, K. Matsunaga, H. Mori, K. Satoh, A. Hara, A. Murakami, K. Koshimizu and H. Ohigashi. 1997. Chemoprevention of azoxymethane induced rat colon carcinogenesis by a xanthine oxidase inhibitor, 1'-acetoxychavicol acetate. *Jpn. Cancer Res.* 88(9): 821-830.
- Tangjingjai, W. 1998. Genetic variation in the bee mite *Tropilaelaps* spp. revealed by sequencing the its region and by RAPD analysis. MS thesis graduate school, Chulalongkorn university, Bangkok. 116 p.

- Temeesak, P. 1993. RAPD fingerprinting for plant classification. Progress of new improvement and plant propagation. Seminar report on 13-14 May 1993, Agriculture Educational Technique Department, Ministry of Agriculture and cooperative society, pp. 57-66.
- Tunla, R. 2000. Classification of dendrobium by isozyme and DNA fingerprinting. MS thesis of Science in Biotechnology, graduate school, Chiang Mai University, Chiang Mai. 93 p.
- Vinitketkumnuen, U., U. Mevatee and N. O-ariyakul. 1992. Antimutagenicity of Thai medicinal plants. Abstract of the 19<sup>th</sup> Annual Meeting of the Research Institute of Health Science, Faculty of Medicine, Chiang Mai University.
- Wanajak, K. 1999. Anti-gastric ulcer activity of *Kaempferia galanga* Linn. MS thesis of Science in Pharmacology, Faculty of Pharmacy, Chiang Mai University, Chiang Mai. 83p.
- Wang, G., S. Castiglione, J. Zhang, R. Fu, J. Ma, W. Li, Y. Sun and F. Sala. 1994. Hybrid rice (*Oryza sativa* L.) identification and parentage determination by RAPD fingerprinting. *Plant Cell Report* 14: 112-115.
- Weising, K., H. Nybom, K. Wolff, and W. Meyer. 1995. DNA Fingerprinting in Plants and Fungi. CRC Press. p. 322.
- Wilkie, S.E., P.G. Isaac and R.J. Slater. 1993. Random amplified polymorphic DNA (RAPD) markers for genetic analysis in *Allium*. *Theor. Appl. Genet.* 86: 497-504.
- Williams, J.G.K., A.R. Kubelik, K.J. Livak, J.A. Rafalski and S.V. Tingey. 1990. DNA polymorphisms amplified by arbitrary primers are useful as genetic markers. *Nucleic Acids Res.* 18(22): 6531-6535.
- Wolfe, S.L. 1993. Molecular and Cellular Biology. Wadsworth publishing Company, Belmont, California.
- Yu, L.X. and H.T. Nguyen. 1994. Genetic variation detected with RAPD markers among upland and lowland rice cultivars (*Oryza sativa* L.). *Theor. Appl. Genet.* 87: 668-672.