

## REFERENCES

- Anunciacao, C.E. and Astolfi-Filho, S. 2000. Paternity test in “*Mangalaga mangalaga*” equines by DNA-fingerprinting. *Pesq. agropec. bras.*, Brasília. 35(10) : 2007-2015.
- Archie, E.A., Moss, J. and Alberts, C.A. 2003. Characterization of tetranucleotide microsatellite loci in the African savannah elephant (*Loxodonta africana africana*). *Molecular Ecology Notes*. 3 : 244-246.
- Armour, J.A.L., Alegre, S.A., William L.J. and Badge, R.M. 1999. Minisatellite and mutation processes in tandemly repetitive DNA. in Goldstein D.B. and Schlotterer C. (Eds.), *Microsatellites:Evolution and Applications* (pp.24-33). New York. Oxford University Press, Inc.
- Boeling, A.T., Eggleston-Stott, M.L., Byrns, G., Clark, R.S., Dileanis, S. and Wictum, E. 1997. Validation of microsatellite markers for routine horse parentage testing. *Animal Genetic*. 28 : 247-252.
- Buchan, J.C., Alberts, S.C., Silk, J.B. and Altmann, J. 2003 True paternal care in a multi-male primate society. *Nature*. 425 : 179-81.
- Chakraborty, R., Meaghert, R.T. and Smouse, S.P.E. 1988, Parentage Analysis With Genetic Markers in Natural Populations.I. The Expected Proportion of Offspring With Unambiguous Paternity. *Genetics*. 118 : 527-536.

- Chun Xu, Y., Lia, B., Shui Li, W., Ying Bai, S., Jin, Y., Ping Li, X., Gu, M.B., Yan Jing, S. and Zhang W. 2005. Individualization of tiger by using microsatellites. *Forensic Science International*. 151 : 45–51.
- Coltman, D.W., Bowen, W.D. and Wright, J.M. 1999. A multivariate analysis of phenotype and paternity in male harbor seals, *Phoca vitulina*, at Sable island, Nova Scotia. *Behavioral Ecology*. 10(2) : 169-177.
- Comstock, K.E., Wasser, S.K. and Ostrander, E.A. 2000. Polymorphic microsatellite DNA loci identified in the African elephant (*Loxodonta africana*). *Mol Ecol*. 9(7) :1004-6.
- Debruyne, R. 2001. “New mitochondrial data demonstrating a close relationship between *Mammuthus primigenius* (Blumenbach, 1799) and *loxodonta africana* (Blumenbach, 1797)”. The world of elephant-International congress, Rome.
- Debruyne, R., Barriel, V. and Tassy, P. 2003. Mitochondrial cytochrome *b* of the Lyakhov mammoth (Proboscidea, Mammalia): new data and phylogetic analyses of Elephantidae. *Molecular Phylogenetics and Evaluation*. 26 : 421-434.
- Dewoody, J., Nason, D.J. and Hipkins V. 2006. Mitigating scoring errors in microsatellite data from wild populations. *Molecular Ecology Notes*. 6 : 951–957.
- Eggert, L.S., Ramakrishnan, U., Mundy, N.I. and Woodruff, D.S. 2000. Polymorphic microsatellite DNA markers in the African elephant (*Loxodonta africana*) and their use in the Asian elephant (*Elephas maximus*). *Mol Ecol*. 9 : 2223-2224.

- Ellegren, H. 2004. Microsatellite: Simple sequences with complex evolution. *Nat Rev Genet.* 5 : 435-445.
- Ely, J.J., Gonzalez, D.L., Reeves-Daniel, A. and Ston, W.H. 1998. Individual Identification and Paternity Determination in Chimpanzees (*Pan troglodytes*) Using Human Short Tandem Repeat (STR) Markers. *International Journal of Primatology.* 19(2) : 255-271.
- Fernando, P., Vidya, T.N.C. and Melnick, D.J. 2001. Isolation and characterization of tri- and tetranucleotide microsatellite loci in Asian elephant, *Elephas maximus*. *Molecular Ecology Notes.* 1 : 232-233.
- Fernando, P., Vidya, T.N.C., Linda, S.G. and Melnick, D.J. 2003a. “Conservation genetic analysis of the Asian elephant: A range-wide study”. Symposium on Human-Elephant Relationships and Conflicts, Colombo, Sri Lanka, p.14.
- Fernando, P., Vidya, T.N.C., Payne, J., Stuewe, M., Davison, G., Alfred, R.J., Andau, P., Bosi, E., Kilbourn, A. and Melnick, D.J. 2003b, DNA Analysis Indicates that Asian Elephants are Native to Borneo and are Therefore a High Priority for Conservation. *PLoS Biology.* 1(1) : 1-6.
- Frankham, R., Ballou, J.D. and Briscoe, D.A. *Introduction to conservation genetics.* United Kingdom : Cambridge University Press, 2002.
- Gerjan, J.M.T., Nanke H.G.DD., Jan, V. and Andre G.U. 1993. Identity and paternity testing of cattle: application of a deoxyribonucleic acid profiling protocol. *J. Dairy Sci.* 76 : 1403-1411.

- Gunasekera, M.B., Vandebona, H. and Ratnasooriya, W.D. 2003. "An assessment of the genetic population structure of the Asian elephant in Sri Lanka by mitochondrial DNA sequence analysis". Symposium on Human-Elephant Relationships and Conflicts, Colombo, Sri Lanka, p.13.
- Heyen, D.W., Beever, J.E., Da, Y., Everts, R.E., Green, C., Lewin, H.A., Bates, S.R.E. and Ziegler, J.S. 1997. Exclusion probabilities of 22 bovine microsatellite markers in fluorescent multiplexes for semiautomated parentage testing. *Animal Genetics*. 28 (1) : 21–27.
- Hollister-Smith, J., Alberts, S.C., Poole, J. and Moss, C. 2004. "Genetic Paternity Analysis of a Wild African Elephant Population". Annual Conference of Association of Zoos and Aquariums. New Orleans, LA.
- Kalinowski, T.S., Taper, L.M. and Creel, S. 2006. Using DNA from non-invasive samples to identify individuals and census populations: an evidential approach tolerant of genotyping errors. *Conservation Genetics*. 7 : 319–329.
- Lair, R.C. *Gone astray the care and management of the Asian elephant in domesticity*. Bangkok : Dharmasarn Co.Ltd., 1997.
- Launhardt, K., Borries, C., Hardt, C., Epplen, J.T. and Winkler, P. 2001. Paternity analysis of alternative male reproductive routes among the langurs (*Semnopithecus entellus*) of Ramnagar. *Animal Behaviour*. 61 : 53–64.
- Lertwatcharasarakul, P., Thongtip, N., Boonnontae, S., Wajjwalku, W., Mahasawankul, S., Angkawanish, T. and Jansittiwate, S. 2003. Haplotypes of Asian elephant (*Elephas maximus*) in Thailand based on cytochrome *b* gene. *Kamphangsaen Acad. J.* 1(1) : 33-9.

- Lohanan, R. 2002. "The elephant situation in Thailand and a plea for co-operation". in I. Baker and M. Kashio (Ed.), *Giants on our hands* (pp.231-237), Bangkok : Dharmasarn.
- Lungka, G. *An action plan for Asian elephant conservation in Thailand 1999-2001.*, Bangkok : World Wildlife Fund (WWF), 2000.
- Mackiewicz, M., Fletcher, D.E., Wilkins, S.D., Woody, J.A.D. and Avise, J.C. 2002. A genetic assessment of parentage in a natural population of dollar sunfish (*Lepomis marginatus*) based on microsatellite markers. *Mol Ecol.* 11 : 1877–1883.
- Mahasawankul S. 2001. "Domestic Elephant Status and Management in Thailand". International Elephant and Rhino Research Symposium. Schuling Verlag, Vienna, p.71-82.
- Mommens, G., Van Zeveren, A. and Pellman, L.J. 1998. Effectiveness of bovine microsatellite in resolving paternity case in American bison, *Bison bison* L. *Animal Genetic.* 29 : 12-18.
- Moore, M.K. "Determining paternity in loggerhead turtles (*Caretta caretta*) nests on Melbourne beach, Florida using microsatellite markers". Master's thesis. Graduate Faculty. University of Charleston, 2000.
- Murphy, M.A, Waits, L.P, Kendall, K.C, Wasser, S.K, Higbee, J.A and Bogden, R. 2002. An evaluation of long-term preservation methods for brown bear (*Ursus arctos*) faecal DNA samples. *Conservation Genetics.* 3 : 435-440.
- Nielsen, R., Mattila, D.K., Clapham, P.J. and Palsbøll, P.J. 2001. Statistical Approaches to Paternity Analysis in Natural Populations and Applications to the North Atlantic Humpback Whale. *Genetics.* 157 : 1673–1682.

- Noro, M., Masuda, R., Dubrovo, I.A., Yoshida, M.C. and Kato, M. 1998. Molecular phylogenetic inference of the woolly mammoth *Mammuthus primigenius*, based on complete sequence of mitochondrial cytochrome b and 12S ribosomal RNA genes. *J Mol Evol.* 46 : 314-326.
- Nyakaana, S. and Arctander, P. 1998. Isolation and characterization of microsatellite loci in the African elephant, *Loxodonta africana*. *Mol Ecol.* 7 : 1436-1437.
- Okayama, T., Sugardjito, J. and Yusuf, I. 2001, "Mitochondrial DNA analysis of Sumatran elephants". International Elephant and Rhino Research Symposium. Schuling Verlag, Vienna, p. 278-81.
- Phupat T. *The DNA techniques for forensic medicine*. Chiang Mai : Faculty of Medicine, Chiang Mai University, 1994.
- Randi, E., Tabarroni, C. and Rimomdi, S. *Forensic genetics and the Washington convention-CITES*. Quad. Cons. Natura, 12bis, Min. Ambiente-Ist. Naz. Fauna Selvatica, 2002.
- Ratanakorn P. 2002. "The role of NGOs in the management of domesticated elephants in Thailand". in I. Baker and M. Kashio (Ed.), *Giants on our hands* (pp.227-230), Bangkok : Dharmasarn.
- Rojanasunant, P. 2000. Basic knowledge of DNA fingerprint I. *Both-Bandit.* 57 : p.87-100.
- Sawala S. 2002. "The role of private organizations in elephant conservation". in I. Baker and M. Kashio (Ed.), *Giants on our hands* (pp. 223-226), Bangkok : Dharmasarn.
- Schlötterer, C. and Tautz, D. 1992. Slippage synthesis of simple sequence DNA. *Nucleic Acids Research.* 20(2) : 211-215.

- Schlötterer, C. 2000. Evolutionary dynamics of microsatellite DNA. *Chromosoma* , 109 : 365–371.
- Shoshani, J. 1992. “Comparing the living elephants” . in :Shoshani J. (Ed.), *Elephant* (pp.66-68). USA : Weldon Owen.
- Siripunkaw C. “Evaluation of microsatellite loci polymorphism in the Asian elephant, *Elephas maximus*”. Master’s thesis. Faculty of Graduate Studies, Mahidol University, 2003.
- Somgird, C., Doungsa-ard, K., Suttipat, T. and Sthitmatee, N. 2005. “Non-invasive technique for DNA extraction and sex determination in bird”. The 43<sup>rd</sup> Kasetsart University Annual Conference, Bangkok.
- Srikummoor, M. “DNA profile in Thai elephants (*Elephas maximus*) : preliminary study”. The special problem report for Bachelor’s degree of science. Chiang Mai University, 1998.
- Tautz, D. 1989. Hypervariability of simple sequences as a general source for polymorphic DNA markers. *Nucleic Acids Research*. 17 : 6463-71.
- The National Identity Office, Secretariat of the Prime Minister. *Minimum requirements for health status and management of Asian elephants in Southeast Asia*. Bangkok : Amarin Printing and Publishing Public Company Limited, 1999.
- Thitaram, C. 2006a. Chiang Mai University, personal communication.
- Thitaram. C., Tongtip, N., Somgird, C., Colenbrander, B., Boxtel, D.C.J. and Lenträ, J.A. 2006b. “Molecular tool for genetic management and parentage test to control poaching in Asian elephants”. 2006 International Elephant Conservation and Research Symposium. Copenhagen. Denmark.

- Thitaram, C., Tongtip, N., Somgird, C., Colenbrander, B., Boxtel, D.C.J. Steenbeek, F.V. and Lenträ, J.A. 2007. Evaluation and selection of microsatellite markers for an identification and parentage test of Asian elephants (*Elephas maximus*). *Conserv Genet.* DOI 10.1007/s10592-007-9406-z.
- Tipprasert P. 2002. "Elephant and ecotourism in Thailand". in I. Baker and M. Kashio (Ed.), *Giants on our hands* (pp. 157-171), Bangkok : Dharmasarn.
- Tsumagari, S., Ichikawa, Y., Torium, H., Ishihama, K., Morita, M., Kanamaki, M. and Takeishi, M. 2003. Optimal Timing for Canine Artificial Insemination with Frozen Semen and Parentage Testing by Microsatellite Markers in Superfecundency. *J. Vet. Med. Sci.* 65(9) : 1003-1005.
- Vidya, T.N.C., Fernando, P., Melnick, D.J. and Sukumar, R. 2003. "Molecular genetic structure of Asian elephant (*Elephas maxius*) population in Southern India". Symposium on Human-Elephant Relationships and Conflicts. Colombo : Sri Lanka, p.13.
- Walsh, P.S., Fildes, N.J. and Reynolds, R. 1996. Sequence analysis and characterization of stutter products at the tetranucleotide repeat locus vWA. *Nucleic Acids Research.* 24 (14) : 2807–2812.
- Whitehouse, A.M. and Herley, E.H. 2001. "Genetic diversity and paternity of the elephant population in Addo Elephant National Park, South Africa". International Elephant and Rhino Research Symposium. Schuling Verlag, Vienna, p.146.
- Wildlife Fund Thailand. *Wild elephant and Domestic elephant Status in Thailand.* Bangkok, 1997.