

References

- Akagi, H., Y. Yokozaki, A. Inagaki and T. Fujimura. 1997. Highly polymorphic microsatellites of rice consist of AT repeats, and a classified of closely related cultivars with these microsatellite loci. *Theor. Appl. Genet.* 94: 61-67.
- Akimoto, M., Y. Shimamoto and H. Morishima. 1999. The extinction of genetic resources of Asian wild rice, *Oryza rufipogon* Griff.: A case study in Thailand.
- Albert, M.E., C.M.D., Antonio and K.A. Schierenbeck. 1997. Hybridization and introgression in *Carpobrotus* spp. (Aizoaceae) in California. I. Morphological evidence. *American Journal of Botany* 84(8): 896-904.
- Anderson, E. 1949. Introgession Hybridization. New York. Wiley & Sons.
- Barbier P. 1989. Genetic variation and ecotypic differentiation in the wild rice species *Oryza rufipogon*. II. Influence of the mating system and life history traits on the genetic structure of populations. *Jpn J. Genet.* 64: 273-285.
- Beachell, H.M., C.R. Adair, N.E. Jodon, L.L. Davis and J. Jone. 1938. Extent of natural crossing in rice. *Agron. J.* 30: 743-753.
- Somrith, B. and S. Awakul. 1979. Rainfed lowland rice in Thailand in Rainfed lowland rice: Selected papers from the 1978 International Rice Research Conference. IRRI, Los Baños, Manila, Philippines: 111-120.
- Brush, S.B. (ed) 1999. Genes in the Fields. International Plant Genetic Resources Institute, Rome and International Development Research Centre, Ottawa.

- Cao,B.R. Lu, H. Xia, J. Rong, F. Sala, A. Spada and F. Grassi. 2006. Genetic diversity and origin of weedy rice (*Oryza sativa* f. *spontanea*) populations found in north-eastern China revealed by simple sequence repeat (SSR) markers. *Annals of Botany* 98: 1241-1252.
- Chen, L.J., D.S. Lee, Z.P. Song, H. S. Shu and B.R. Lu. 2004. Gene flow from cultivated rice (*Oryza sativa*) to its weedy and wild relatives. *Annals of Botany* 93: 67-73.
- Chitrakon, S. 1995. Characterization, evaluation and utilization of wild rice germplasm in Thailand. PhD Thesis, Hokkaido University.
- Chu, Y. and H.I. Oka. 1970. Introgression across isolating barriers in wild and cultivated *Oryza* species. *Evolution* 24: 344-355.
- De Datta, S.K. 1981. Principles and Practices of Rice Production. Los Baños, Philippines.
- Dennis, J.V. 1987. Farmer Management of Rice Variety Diversity in Northern Thailand. Ph.D. Thesis, Cornell University.
- Doyle, J.J. and J.L. Doyle. 1987. A rapid DNA isolation procedure for small quantities of fresh leaf tissue. *Focus* 12: 13-15.
- Ellstrand N.C., Prentice H.C. and J.F. Hancock. 1999. Gene flow and introgression from domesticated plants into their wild relatives. *Annu. Rev. Ecol. Syst.* 30: 539-563.
- Gallagher, K.G., K.A. Schierenbeck and C.M.D. Antonio. 1997. Hybridization and introgression in *Carpobrotus* spp. (Aizoaceae) in California. I. Allozyme evidence. *American Journal of Botany* 84(8): 905-911.
- Gao, L.Z. and S.G.D. Hong. 2000. Allozyme variation and population genetic structure of common wild rice *Oryza rufipogon* Griff. in China. *Thero. Appl. Genet.* 101: 494-502.

- Gealy, D.R., T.H. Tai and C.H. Sneller. 2002. Identification of red rice, rice, and hybrid populations using microsatellite markers. *Weed science* 50: 333-339.
- Gealy, D.R., D.H. Mitten and J.N. Rutger. 2003. Gene flow between red rice (*Oryza sativa*) and herbicide-resistance rice (*O. sativa*): Implications for weed management. *Weed Technology* 17: 627-645.
- Goudet, J. 2001. FSTAT, a program to estimate and test gene diversities and fixation indices (version 2.9.3). Available from <http://www.unit.ch/izea/softwares/fstat.html> Updated from Goudet (1995).
- Harlan, J.R. 1992. Crop & Man. Second Edition. Madision. Wisconsin, USA. pp. 90-93.
- IRR-IBPGR. 1980. Descriptions for rice *Oryza sativa* L. IRRI, P.O. Box 993, Manila, Philippines. 21 p.
- Jamjod, S., C. Manechote, T. Anakad, S. Niruntrayagul and B. Rekasem. 2003. Wild rice in Thailand: snapshots from 2002. Annual review 3, CMUPNlab working papers V, Chiang Mai University: 1-15.
- Jenczewski, E., J. Ronfort and C. Anne-Marie. 2003. Crop-to-wild gene flow, introgression and possible fitness effects of transgenes. *Environ. Biosafety Res.*, 2: 9-24.
- Jennings, P.R., W.R. Coffman and H.E. Kaufmann. 1979. Rice Improvement. International Rice Research Institue, Los Baños, Philippines.
- Khush, G. S. 1997. Origin, dispersal, cultivation and variation of rice. *Plant Molecular Biology*, 35: 25-34.
- Langevin, S.A., K.Clay and J.B. Grace. 1990. The incidence and effect of hybridization between cultivated rice and its related weed red rice (*Oryza sativa* L.). *Evolution* 44(4): 1000-1008.

- Levin, D.A. and H.W. Kerster. 1974. Gene flow in seed plants. *Evol. Biol.* 7: 139-220.
- Linares, O.F. 2002. African rice (*Oryza glaberrima*): History and future potential. *PNAS* 99: 16360-16365.
- Londo, J.P. and B.A. Schaal, 2007: Origins and population genetics of weedy red rice in the USA. *Molecular Ecology* 14: 4523-4535.
- Louette, D. 1999. Traditional management of seed and genetic diversity: what is a landrace. P. 109-142. In S.B. Brush (ed) *Genes in the Fields*. International Plant Genetic Resources Institute, Rome and International Development Research Centre, Ottawa.
- Lu, B.R., Song Z.P. and J.K. Chen. 2003. Can transgenic rice cause ecological risks through transgene escape? *Progress in Natural Science* 13: 17-24.
- Majumder, N.D., T. Ram and A.C. Sharma. 1997. Cytological and morphological variation in hybrid swarms and introgressed population of interspecific hybrids (*Oryza rufipogon* Griff. x *Oryza sativa* L.) and its impact on evolution of intermediate types. *Euphytica* 94: 295-302.
- Maneechote, C, S. Jamjod and B. Rerkasem. 2004. Invasion of weedy rice in rice fields in Thailand: problems and management. *IRRN* 29(2): 20-22.
- Maneechote, S. Weedy rice: Problem and Management. Plant Protection Research and Development Office, Department of Agriculture. 29 pp.
- McCouch, S.R., L. Tyetelman, YB. Xu, KB. Lobos, K. Clare, M. Walton, BY. Fu, R. Maghirang, ZK. Li, YZ. Xing, QF. Zhang, I. Kono, M. Yano, R. Fjellstrom, G. DeClerck, D. Schneider, S. Cartinhour, D. Ware and L. Stein. 2002. Development and mapping of 2240 new SSR markers for rice (*Oryza sativa* L.). *DNA Research* 9: 199-207.

- McCouch, S.R., M. Sweeney, J. Li, H. Jiang, M. Thomson, E. Septiningsih, J. Edwards, P. Moncada, J. Xiao, A. Garris, T. Tai, C. Martinez, J. Tohme, M. Sugiono, A. McClung, L.P. Yuan and S.N. Ahn. 2007. Through the genetic bottleneck: *O. rufipogon* as a source of trait-enhancing alleles for *O. sativa*. *Euphytica* 154: 317-339.
- Messeguer, J., C. Fogher, E. Guiderdoni, V. Marfa, M.M. Catala, G. Baldi and E. Mele. 2001. Field assessments of gene flow from transgenic to cultivated rice (*Oryza sativa* L.) using a herbicide resistance gene as tracer marker. *Theor. Appl. Genet.* 103: 1151-1159.
- Messeguer, J., V. Marfa, M.M. Catala, E. Guiderdoni and E. Mele. 2004. A field study of pollen-mediated gene flow from Mediterranean GM rice to conventional rice and red rice weed. *Molecular Breeding*, 13: 103-112.
- Miura, R. and R. Terauchi. 2005. Genetic control weediness traits and the maintenance of sympatric crop-weed polymorphism in peral millet (*Pennisetum glaucum*). *Molecular Ecology* 14: 1251-1261.
- Naredo, Ma. Elizabeth B., A.B. Juliano, B.B. Lu and M.T. Jackson. 1997. Hybridization of AA genome rice species from Asia and Australia I. Crosses and development of hybrids. *Genetic Resources and Crop Evolution* 44: 17-23.
- Naredo, Ma. Elizabeth B., A.B. Juliano, B.B. Lu and M.T. Jackson. 1998. Taxonomic status of *Oryza glumaepatula* Steud. II. Hybridization between new world diploids and AA genome species from Asia and Australia. *Genetic Resources and Crop Evolution* 45: 205-214.
- Nei, M. 1978. Estimation of average heterozygosity and genetic distance from a small number of individuals. *Genetics*. 89:583-590.

- Nei, M., F., Tajima and Y. Tateno. 1983. Accuracy of estimated phylogenetic trees from molecular data. *Journal of Molecular Evolution* 19: 153-170.
- Nei, M., S., Kumer. 2000. *Molecular Evolution and Phylogenetics*. Oxford University press. London.
- Nilsson, L.A., E. Rabakonandrianina and B. Pettersson. 1992. Exact tracting of pollen transfer and mating in plants. *Nature* 360: 666-667.
- NAPPO. 2003. “*Oryza rufipogon* Griff.”. PEST FACT SHEET. (Online). (June, 2003): 1-15. Available at: <http://www.nappo.org/PRA-sheets/Oryzarufipogon.pdf>.
- OAE. 1998. Report on the Survey of Main Season Rice, 1996/97 Season. Agricultural Statistic Document No. 9/1998.
- Oka, H.I. 1988. *Origin of Cultivated Rice*. Scientific Societies Press/Elsevier, Tokyo: Japan. 254p.
- Oka, H.I. and H. Morishima. 1971. The dynamic of plant domestication: Cultivation experiments with *Oryza perennis* and its hybrids with *O. sativa*. *Evolution*, 25: 356-364.
- Oka, H.I. and W.T. Chang. 1961. Hybrid swarms between wild and cultivated rice species, *Oryza perennis* and *O. sativa*. *Evolution* 15: 418-430.
- Panaud, O., X. Chen and S.R. McCouch. 1996. Development of microsatellite markers and characterization of simple sequence length polymorphism (SSLP) in rice (*Oryza sativa* L.). *Mol Gen Genet*. 252: 597-607.
- Phaokrueng, A. 2004. Estimation of Farmers' Profit Loss from Weedy Rice Invasion in Kanchanaburi Province. Master Thesis (Economics). Graduate School, Chiang Mai University.

- Portères, R. 1976. in The Origin of African Plant Domestication, eds. J.R. Harlan, J.M.J. de Wet and A.B.L. Stemler (Mouton, The Hauge, The Netherlands): 409-452.
- Robert, E.H., R.Q. Craufurd and F. Le Cochet. 1961. Estimation of percentage of natural cross-pollination: experiment on rice. Nature 190: 1084-1085.
- Samanwong, S., S. Tanasinchayakul, S. Tantakom and S. Chitrakorn. 2005. Resistance of wild rice (*Oryza* spp.) from Thailand to brown plant hopper (*Nilaparvata lugens* Stål). Presented at the international symposium on Diversity, Management, Protection and Utilization of Local Rice Germplasm, 1-2 August 2005, Chiang Mai, Thailand. CMUPNlab Working Paper VII Abstract page 5.
- Sanchez, E.T. and K. Oyama. 2004. Natural hybridization and hybrid zones between *Quercus crassifolia* and *Quercus crassipes* (Fagaceae) in Mexico: Morphological and molecular evidence. American Journal of Botany 91(9): 1352-1363.
- Shu, H.S., Y.I. Sato and H. Morishima. 1997. Genetic characterization of weedy rice (*Oryza sativa* L.) based on morpho-physiology, isozymes and RAPD markers. Theor. Appl. Genet. 94: 316-321.
- Sirabanchongkran, A., K. Rerkasem, N. Yimyam, W. Boonma, K. Coffey, M. Pinedo-Vasquez and C. Padoch. 2004. Varietal turnover and seed exchange: Implication for conservation of rice genetic diversity on-farm. IRRN (29)2: 18-20.
- Slatkin, M. 1987. Gene flow and the geographic structure of natural populations. Science (Washington. DC) 236: 787-792.
- Snow, A.A., P. Moran-Palma, L.H. Rieseberg, A. Wszelaki and G. Seiler. 1998. Fecundity, phenology and seed dormancy of F1 wild-crop hybrids in sunflower (*Helianthus annuus*, Asteraceae). Am. J. Bot. 85: 794-801.

- Song, Z.P., B.R. Lu, Y.G. Zhu and J.K. Chen. 2002. Pollen competition between cultivated and wild rice species (*Oryza sativa* and *O. rufipogon*). *New Phytologist* 153: 289-296.
- Song, Z.P., B.R. Lu, Y.G. Zhu and J.K. Chen. 2003. Gene flow cultivated rice to the wild species *Oryza rufipogon* under experimental field conditions. *New Phytologist* 157: 657-665.
- Song, Z.P., B.R. Lu, B. Wang and J.K. Chen. 2004. Fitness estimation through performance comparison of F₁ hybrids with their parental species *Oryza rufipogon* and *O. sativa*. *Annals of Botany* 93: 311-316.
- Sun, C.Q., X.K. Wang, Z.C. Li and A. Yoshimura. 2001. Comparison of the genetic diversity of common wild rice (*Oryza rufipogon* Griff.) and cultivated rice (*O. sativa* L.) using RFLP markers. *Theor. Appl. Genet.* 102: 157-162.
- Vaughan, D.A. 1994. The wild relatives of rice: a genetics resources guide book. Los Baños, Philipines: International Rice Research Institute. 137 p.
- Yeh F.C., R.C. Yang and T Boyle. 1999. POPGENE , the Microsoft Window-Based User-Friendly Software for Population Genetics Analysis of Co-dominant and Dominant Markers and Quantitative Traits. University of Alberta, Center for International Forestry Research, Alberta, Canada.
- Waines, J.G. and S.G. Hegde. 2003. Intraspecific gene flow in bread wheat as affected by reproductive biology and pollination ecology of wheat flowers. *Crop science* 43: 451-463.
- Weir, B. S. 1996. Genetic data analysis II: methods for discrete population genetic data. Sinauer Associates Inc., Sunderland, Massachusetts.

- Wongtamee A., A. Phoakrueng, P. Boonchuay, R. Jindalouang, T. Anakat, B. Rerkasem, C. Maneechote and S. Jamjod. 2007. Evidence of Gene Flow from Crop Rice in Common Wild Rice Populations in Northeastern Thailand. In “The 2nd International Conference on Rice for the Future”, November 5-9 2007, Bangkok, Thailand.
- Wright, S. 1965. The interpretation of population structure by *F*-statistics with special regard to systems of mating. *Evolution* 19: 395-420.
- Zhang, N., S. Linscombe and J. Oard. 2003. Out-crossing frequency and genetic analysis of hybrids between transgenic glufosinate herbicide-resistant rice and the weed, *re* rice. *Euphytica* 130: 35-45.