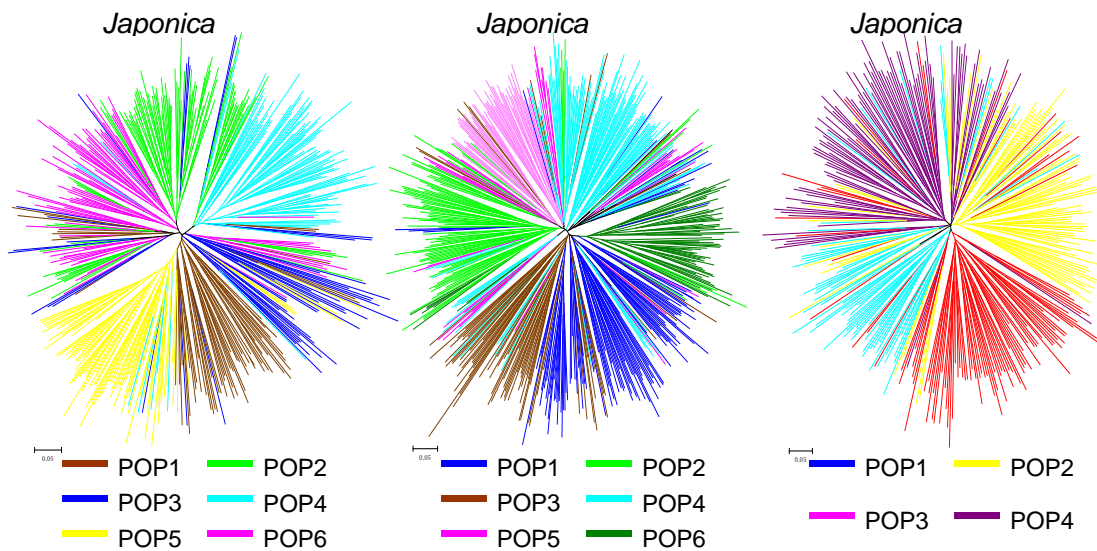
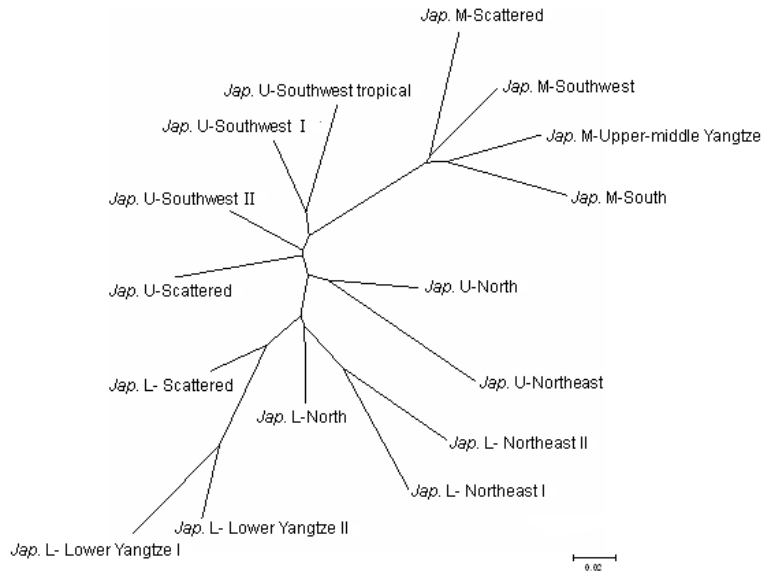


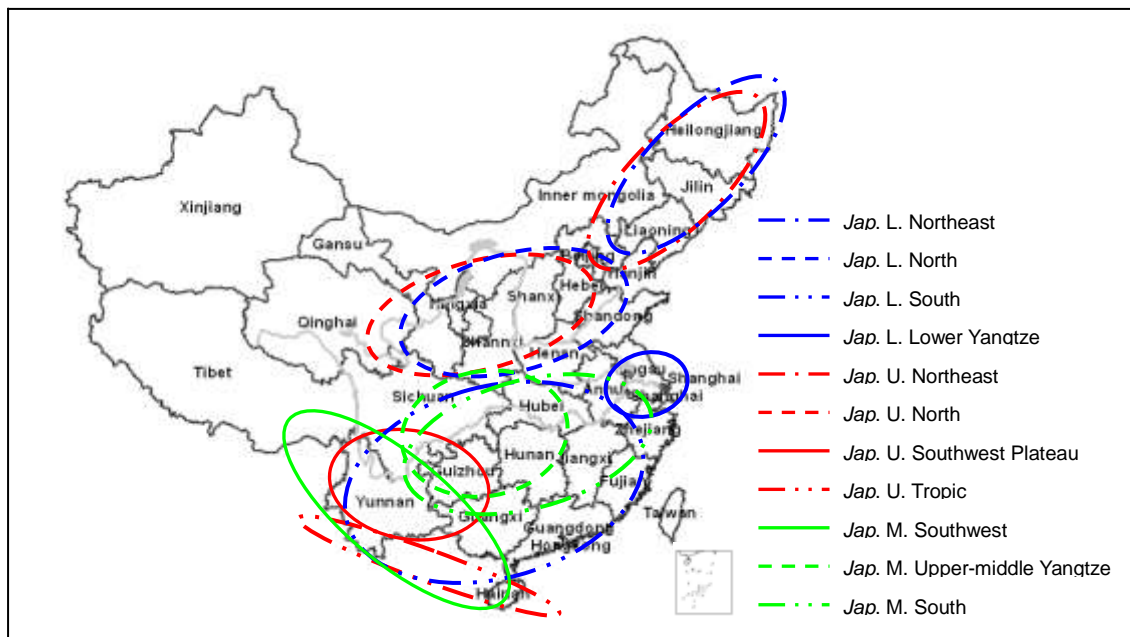
Appendix A ΔK with $k=2$ to 10 for three inferred *japonica* ecotypes (Zhang *et al.* 2009); A, *Japonica* Lowland ecotype. B, *Japonica* Upland ecotype. C: *Japonica* Medium ecotype.



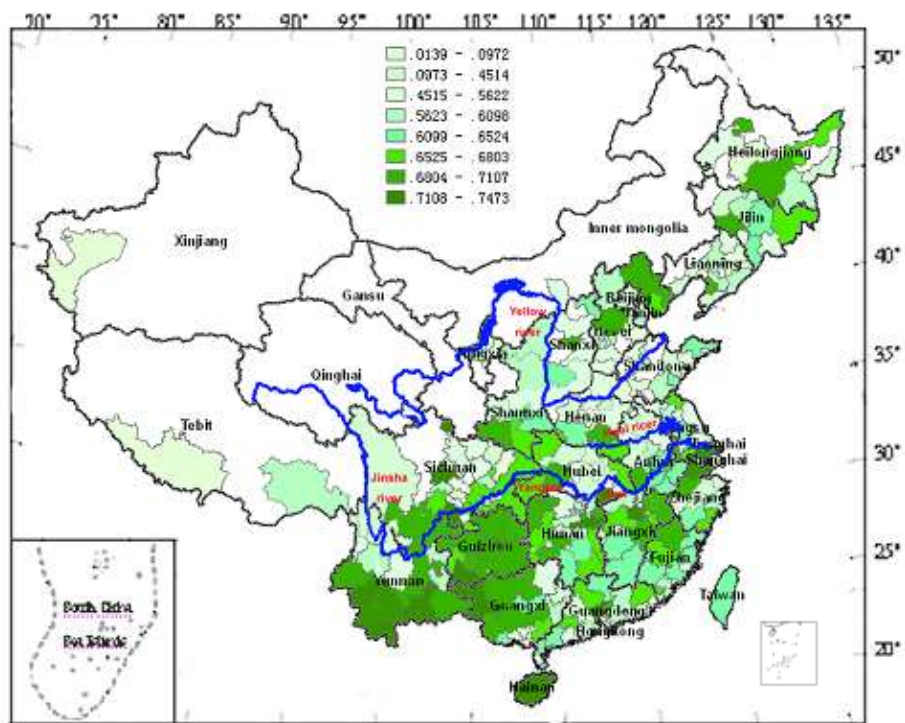
Appendix B Unrooted neighbor-joining tree of three *japonica* ecotypes based on Nei's D_A (Nei *et al.* 1983) based on 36 nuclear SSRs. The color corresponds that of model-based populations.



Appendix C Unrooted neighbor-joining tree of 16 inferred eco-geographical types using Nei's D_A (Nei *et al.* 1983).



Appendix D Distribution of eco-geographical types of *japonica* rice in China



Appendix E Nei's gene diversity index (Nei 1987) of *japonica* in different districts of China

Appendix F Numbers of varieties in three variety types and subspecies

Variety type	Lowland	Upland	unknown	Subtotal
Early	216	92		308
Middle	344	167		511
Late	393	216	1	610
unknown	4	8	1	13
Subtotal	957	483	2	1442

Appendix G Information of SSR used in the study

Marker	Chromosome	Motif	Forward primer	Reverse primer	Original Ref*
RM23	1	(ga)15	cattggagtggaggctgg	gtcaggcttctgccattctc	2
RM5	1	(ga)15	tgcaacttctagctgctcga	gcatccgatcttgatggg	3
RM81A	1	(ctt)10	gagtgcttgcaagatcca	cttctcactcatgcagttc	2
RM211	2	(ga)18	ccgatctcatcaaccaactg	cttcacgacctctcaaagg	2
RM262	2	(att)10t(att)4	cattccgtctcggctcaact	cagagcaagggtggcttgc	2
RM71	2	(ga)16	ctagaggcgaaaacgagatg	gggtggcgaggttaataatg	4
RM231	3	(ga)16	ccagattatttctgaggtc	cacttgcatagtctgcattg	2
RM251	3	(ga)29	gaatggcaatggcgctag	atgctgtcaagattcgatc	2
RM60	3	(aatt)5	agtcccatgtccacttccg	atggctactgcctgtactac	2
RM241	4	(ga)31	gagcaaataagatcgctga	tgcaagcagcagatttaggtg	2
RM255	4	(ga)16	tggtgctgtggagatgtg	cgaaccgctcagttcaac	2
RM335	4	(ctt)25	gtacacaccacatcgagaag	gctctatgagatccatgg	4
RM164	5	(ga)14	tcttgccgtcactgcagatatcc	gcagccctaagtctacaattcttc	5
RM249	5	(ga)16t(gt)4gag	ggcgtaaaggtttgcatgt	atgatgccatgaaggtcagc	2
RM267	5	(ga)21	tgcaacatagagaaggaagtg	agcaacagcacaactgatg	4
RM190	6	(ga)18	ctttgtctatctcaagacac	ttgcagatgttctctgatg	1
RM225	6	(ga)25	tgccatattgctggatg	gaaagtggatcaggaaggc	2
RM253	6	(ct)11	tcctcaagagtgcaaaacc	gcattgtcatgtcgaagcc	2
RM134	7	(cca)7	acaaggccgagaggattccg	gctctccggtggctccgattgg	4
RM18	7	(ga)16	ttcctctcatgagctccat	gagtgcctggcgctgtac	3
RM82	7	(tct)11	Tgcttctgtcaattcgcc	cgactcgtggaggtacgg	2
RM223	8	(ga)25	gagtgagctgggctgaaac	gaaggcaagtctggcactg	2
RM25	8	(ga)6	ggaaagaatgatctttcatgg	ctaccatcaaaaccaatgttc	2
RM42	8	(ga)18	atcctaccgctgacctgag	tttggctacgtggcgtaca	2
RM219	9	(ga)10	cgctggatgatgaaagcct	catatcggcattcgctg	2
RM242	9	(ga)17	ggccaacgtgtgatgtctc	tatatgccagcagggatggg	2
RM296	9	(ga)26	cacatggcacaacctcc	gccaagtcattcactact	4
RM216	10	(ga)18	gcatggccgatggtaaag	tgtataaaaccacaggcca	2
RM244	10	(ga)21	ccgactgtctgccttatca	ctgctctcgggtgaaactg	2
RM258	10	(ga)8	tgctgtatgtagctgcacc	tggcctaaagctgtcgc	2
RM206	11	(ga)11	cccattgcgttactattct	cgttccatgatccgatgg	2
RM224	11	(ga)13	atcgatcgatcttccagagg	tgctataaaaggcattcggg	2
RM254	11	(ga)11	agccccgaataaatccacct	ctggaggagcattggtagc	2
RM235	12	(ga)13	agaagctagggttaacgaac	tcacctggtcagcctctttc	2
RM247	12	(ga)16	tagtgccgatcgatgtaacg	catatggtttgacaaagcg	2
RM270	12	(ga)24	ggccgttgggtctaaaatc	tgccgagtatcatcggcgag	4

*Original references for the information of the SSR:

- 1 Akagi, H., Yokozeki, Y., Inagaki, A., and Fujimura, T. (1996) Microsatellite DNA markers for rice chromosomes. *Theoretical and Applied Genetics*, 93, 1071-1077

- 2 Chen, X., Temnykh, S., Xu, Y., Cho, Y.G., and McCouch, S.R. (1997) Development of a microsatellite framework map providing genome-wide coverage in rice (*Oryza sativa* L.). *Theoretical And applied Genetics*, 95, 553-567
- 3 Panaud, O., Chen, X., and McCouch, S.R. (1996) Development of microsatellite markers and characterization of simple sequence length polymorphism (SSLP) in rice (*Oryza sativa* L.). *Molecular & General Genetics*, 252, 597-607
- 4 Temnykh, S., Park, W.D., Ayres, N.M., Cartinhour, S., Hauck, N., Lipovich, L., Cho, Y.G., Ishii, T., and McCouch, S.R. (2000) Mapping and genome organization of microsatellite sequences in rice (*Oryza sativa* L.). *Theoretical and Applied Genetics*, 2000, 100, 697-712
- 5 Wu, K.S., and Tanksley, S.D. (1993) Abundance, polymorphism and genetic mapping of microsatellites in rice. *Molecular & General Genetics*, 241, 225-235