

Curriculum vitæ

Kosuke M. Teshima

The Graduate University for Advanced Studies, Hayama, Kanagawa 240-0193, Japan

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Education

2006-present Research Associate, Graduate University for Advanced Studies. Advisor: H. Innan

2004-2006 Research Associate, Brown University (2004-2005) and University of Chicago (2005-2006). Advisor: M. Przeworski

2002-2004 Postdoctoral Fellow, University of Cincinnati. Advisor: R. Chakraborti

1997-2002 Ph.D., University of Tokyo. Major: Biological Sciences. Advisor: F. Tajima

1993-1997 B.Sc., University of Tokyo. Major: Biological Sciences.

Teaching experience

2006-present Assistant at Graduate University for Advanced Studies.

1998 Part-time instructor at Jichi Medical University

1997 Teaching assistant at University of Tokyo

Other training

2005 Genome access course at Cold Spring Harbor Laboratory

Publications

1. Teshima KM., Innan H., mbs: modifying Hudson's ms software to generate samples of DNA

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sequences with a biallelic site under selection. *BMC Bioinformatics*, 2009 10: 166

2. Takahashi Y., Teshima KM., Yokoi S., Innan H., Shimamoto K., Variations in Hd1 proteins, Hd3a promoters and Ehd1 expression levels to diversity of flowering time in cultivated rice. *Proc Natl Acad Sci USA*. 2009 106: 4555-4560
3. Blekhman R., Man O., Herrmann L., Boyko AR., Indap A., Kosiol C., Bustamante CD., Teshima KM., Przeworski M., Natural selection on Genes that underlie human disease susceptibility. *Curr Biol*. 2008 18: 883-889
4. Teshima KM., Innan H., Neofunctionalization of duplicated genes under the pressure of gene conversion. *Genetics* 2008 178: 1385-1398
5. Teshima, KM., Coop, G., and Przeworski, M., How reliable are genomic scans for selective sweeps? *Genome Res*. 2006 16: 702-712
6. Teshima, KM. and Przeworski, M., 2006, Directional Positive Selection on an Allele of Arbitrary Dominance. *Genetics* 2006 172: 713-718
7. Teshima, KM. and Innan, H., 2003, The effect of gene conversion on the divergence between duplicated genes. *Genetics*, 166: 1553-1560
8. Teshima, KM. and Tajima, F., 2002, The effect of migration during the divergence. *Theor. Popul. Biol.*, 62: 81-95

Abstracts

1. Teshima K. and R. Chakraborty, 2003, Microsatellite-based linkage disequilibria in relation to recombination distance: Effects of

- population growth, and rate and pattern of mutation. *Am. J. Hum. Genet.* 73 (5): 2614 Suppl.
2. X. Sheng, K. Teshima, G. Sun, R. Deka, R. Chakraborty, 2003, Properties of linkage disequilibria between multiallelic loci to detect disequilibrium induced by genetic admixture. *Am. J. Hum. Genet.* 73 (5): 2613 Suppl.
 3. Ranajit Chakraborty and Kosuke Teshima, 2003, Population Genomics: A Paradigm for Complex Disease Studies in the Post-Genome Era. Mathematisches Forschungsinstitut Oberwolfach, Report No. 7/2003
 4. Teshima KM, Lee HS and Chakraborty R, 2002, Population substructure effects on the extent of genotype sharing: A tool for detecting the presence of relatives in databases. *Am. J. Hum. Genet.* 71 (4): 2346 Suppl. S
- Society of Japan, Tokyo, September 2001 (in Japanese)
6. Teshima KM and F. Tajima, The effect of migration to the amount of nucleotide differences 71st annual meeting of The Genetic Society of Japan, Higashi-Hiroshima, September 1999 (in Japanese)
 7. Teshima KM. And F. Tajima, Effect of migration to coalescence of genes in a dividing population 70th annual meeting of The Genetic Society of Japan, Sapporo, September 1998 (in Japanese)

Platform presentations

1. Teshima K., Evolution of duplicated genes under the effect of gene conversion. Japan-Germany colloquium 2009: Evolutionary genomics, Bad Honnef, Germany, March 8-11, 2009
 2. Teshima K., Evolution of duplicated genes under the pressure of gene conversion. in the workshop "Theoretical population genetics and its application". 80th annual meeting of the genetic society of Japan. Nagoya. September 2008. (Japanese)
 3. Teshima K., A topic on using polymorphism data when mentioning the history of organism. in the workshop "Phylogeography and population genetics". 10th annual meeting for the society of evolutionary studies, Tokyo, August 2008. (Japanese)
 4. Teshima K. and R. Chakraborty, Microsatellite-based linkage disequilibria: Effects of population growth, and rate and pattern of mutation. 75th annual meeting of The Genetic Society of Japan, Sendai, September 2003 (in Japanese)
 5. Teshima KM and F. Tajima, Study about population divergence and migration between subpopulations 73rd annual meeting of The Genetic Society of Japan, Tokyo, September 2001 (in Japanese)
- ## Poster presentations
1. Teshima, KM., and Przeworski, M., Positive selection on alleles of arbitrary dominance. Genomic Studies and the HapMap, University of Oxford, UK, March 2005
 2. Teshima K. and R. Chakraborty, 2003, Microsatellite-based linkage disequilibria in relation to recombination distance: Effects of population growth, and rate and pattern of mutation. *Am. J. Hum. Genet.* 73 (5): 2614 Suppl.
 3. Sheng, X., K. Teshima, G. Sun, R. Deka, R. Chakraborty, 2003, Properties of linkage disequilibria between multiallelic loci to detect disequilibrium induced by genetic admixture. *Am. J. Hum. Genet.* 73 (5): 2613 Suppl.
 4. Chakraborty, R. and K. Teshima, 2003, Population Genomics: A Paradigm for Complex Disease Studies in the Post-Genome Era. Mathematisches Forschungsinstitut Oberwolfach, Report No. 7/2003
 5. Teshima KM, Lee HS and Chakraborty R, 2002, Population substructure effects on the extent of genotype sharing: A tool for detecting the presence of relatives in databases. *Am. J. Hum. Genet.* 71 (4): 2346 Suppl. S
 6. K.M. Teshima and F. Tajima, The effect of migration during divergence. Evolutionary Genomics, New Paradigm of Biology in the 21st Century, Atami, November 2001

7. K.M. Teshima and F. Tajima, Effect of Migration on Nucleotide Differences. Gordon Research Conference on Molecular Evolution, Hayama, October 1999
8. K.M. Teshima and F. Tajima, Distribution of coalescence time among a sample of genes in the process of speciation. Fukuoka International Symposium of Population Genetics, Fukuoka, August 1998

Others

1. Teshima K., A panelist in the workshop "Promoting equal participation of men and women". 80th annual meeting of the genetic society of Japan. Nagoya. September 2008. (Japanese)