



Second B Chromosome Conference

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A and B chromosome DNA diversity in Korean field mouse *Apodemus peninsulae* (Rodentia, Murinae) in geographically distant populations

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Distribution of repeated DNA in A and B chromosomes in Korean field mouse *Apodemus peninsulae* captured from population of Siberia and Russian Far East were analyzed by two-color FISH with microdissected DNA probes derived from A and B chromosomes of Siberian and Far Eastern population and DNA probe based on 3.2-Kb fragment of human 18S rDNA. Extensive intraindividual, intrapopulation, interpopulation, and geographical region variability for B chromosome number, morphology and DNA composition was revealed. Origin and mechanisms of B chromosome evolution in Korean field mouse are discussed.