

11th International Conference
Rodens et Spatium
on Rodent Biology



Myshkin, Russia
July 24-28, 2008

Abstracts
List of Participants

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Spatial interrelations between bank voles and yellow-necked mice in Crabapple Island

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Concurrent studies on populations of *Apodemus flavicollis* and *Myodes glareolus* were conducted on Crabapple Island (NE Poland) in 1994 through 1998. Habitat conditions as well as population and interspecific factors were analysed. It appears that the number of individuals in a locality (that is a trap-site) is weakly correlated with habitat factors (e.g., plant cover, dead logs or distance to the island shore); on the contrary it depends on the number of individuals in the neighbouring localities: belonging to the other species, and especially, to the same species. Thus, one can establish the following order of the factors affecting the number of individuals in a locality: population (the strongest impact), interspecific (less important) and habitat factors (the weakest influence).

Particular attention was paid to spatial interrelations between sexually mature females of the co-occurring species. Such females of these species mutually accept themselves in the same locality, providing they are single. Mature female of *A. flavicollis*, do not accept (i.e., avoid) two or more mature females of *M. glareolus*. Mature female of *M. glareolus* tolerates two or more mature females of the other species in the same locality. Two or more mature females of each of the studied species rarely co-occur in the same locality (i.e., avoid themselves).