

Fig. 1. Suppl. The chromosome behavior in meiosis of the disomic substitution line 1Rv(1A): *A* - metaphase I, 1Rv chromosomes form the rod bivalent. Genome *in situ* hybridization, with the rye chromosome labeled in *green*. *B* - the same cell as (*A*), with DAPI counterstaining.

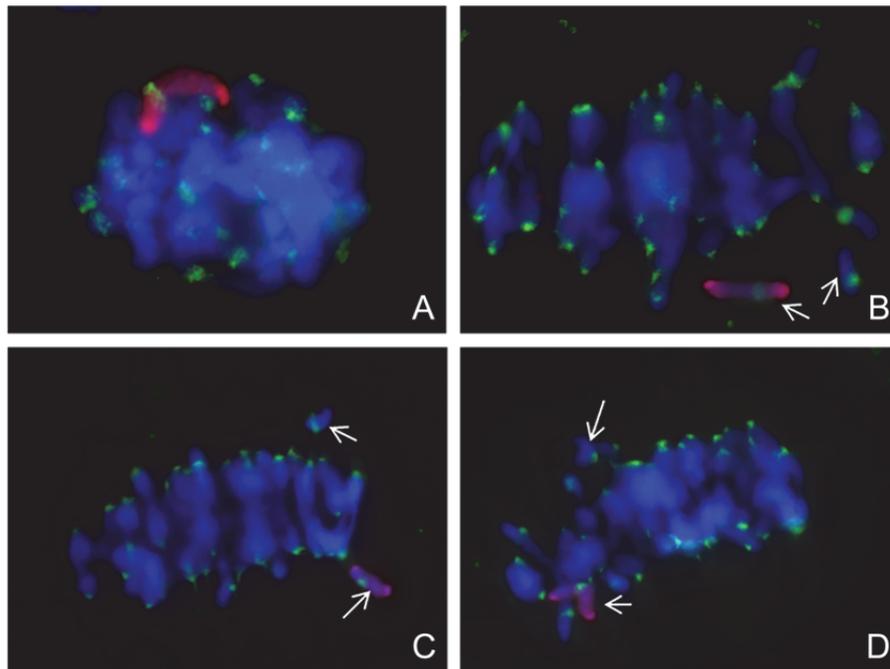


Fig. 2. Suppl. Different centromere behavior of the 1Rv chromosome in the first meiosis of 1Rv-1A: *A* - diffuse stretched signal of pAet06 at the centromere 1Rv at diakinesis; diffuse and stretched (*B*) or dot and dense (*C*, *D*) hybridization signals of pAet06 at centromere 1Rv in metaphase I. *B-D* - 1Rv and 1A formed univalents (indicated with an *arrow*). Genome and sequential *in situ* hybridization, with the rye chromosome labeled in *red*, and the centromere specific probe pAet-06 labeled in *green*.

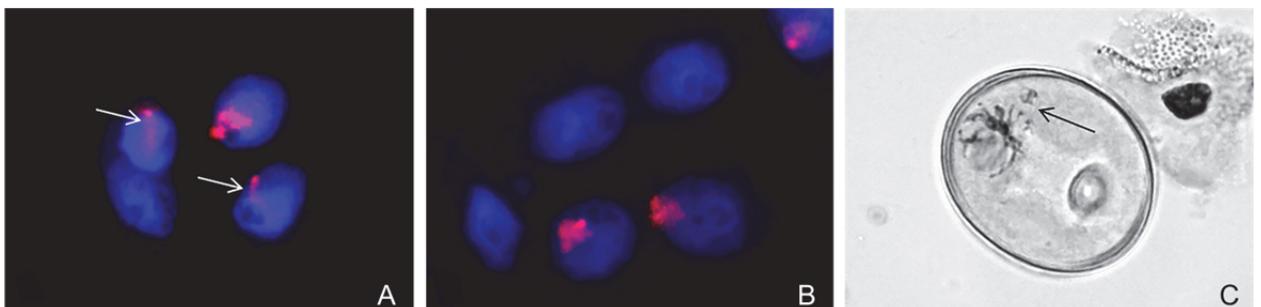


Fig. 3. Suppl. Pattern of 1Rv transmission in microspores: *A* - chromatid and arms (indicated with an *arrow*); *B* - chromatids; *C* - metaphase of the first mitosis in the pollen grain. Chromosome lies out of equatorial plate (indicated with an *arrow*). *A*, *B* - genome *in situ* hybridization, rye chromosome is labeled *red*. *C* - acetocarmine staining.