

### **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: ChIP-seq data of three Smp proteins in meiotic and vegetative growth.

File Name: Supplementary Movie 1

Description: Disappearance of Seb1-mCherry dots in the meiotic prophase nucleus upon 1,6-hexanediol treatment.

File Name: Supplementary Movie 2

Description: Disappearance of Rhn1-GFP dots in the meiotic prophase nucleus upon 1,6-hexanediol treatment.

File Name: Supplementary Movie 3

Description: Disappearance of Rna15-GFP dots in the meiotic prophase nucleus upon 1,6-hexanediol treatment.

File Name: Supplementary Movie 4

Description: Scattering of sme2-RNA focus upon 1,6-hexanediol treatment.

File Name: Supplementary Movie 5

Description: Separation of the paired A55 locus upon 1,6-hexanediol treatment.

File Name: Supplementary Movie 6

Description: Separation of the paired C24 locus upon 1,6-hexanediol treatment.