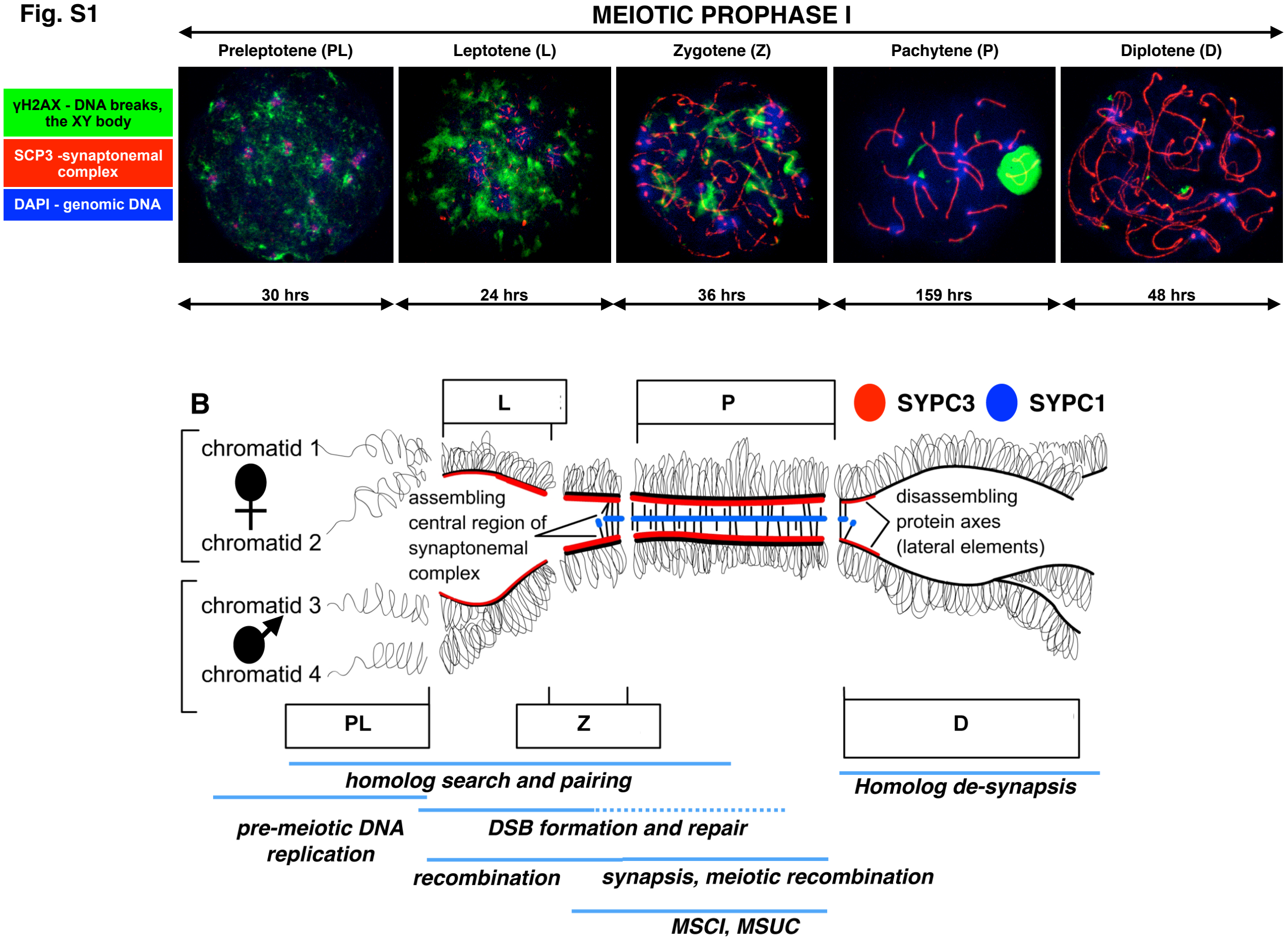
Fig. S1


MEIOTIC PROPHASE I
Preleptotene (PL)
Leptotene (L)
Zygotene (Z)
Pachytene (P)
Diplotene (D)
γH2AX - DNA breaks, the XY body
SCP3 -synaptonemal complex
DAPI - genomic DNA
30 hrs
24 hrs
36 hrs
159 hrs
48 hrs
B
L
P
SYPC3
SYPC1
chromatid 1
chromatid 2
chromatid 3
chromatid 4
assembling central region of synaptonemal complex
disassembling protein axes (lateral elements)
PL
Z
D
homolog search and pairing
Homolog de-synapsis
pre-meiotic DNA replication
DSB formation and repair
recombination
synapsis, meiotic recombination
MSCI, MSUC