



GAMETOCYTES





MALE: SPERMATOCYTES

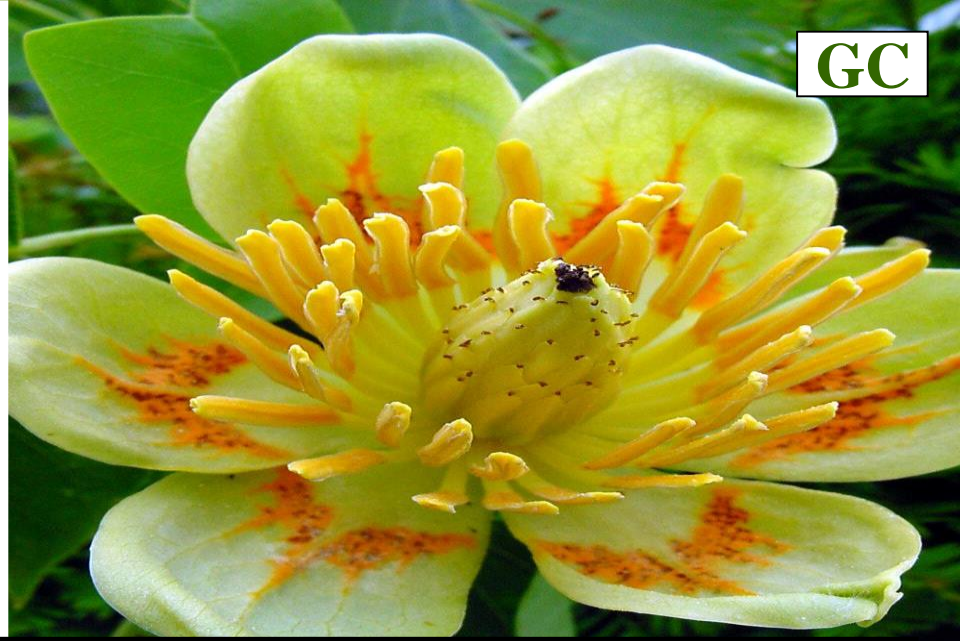




LC

FEMALE: OOCYTES





PLANT LIFE CYCLE





S

PLANT GERM CELLS





SPORO CYTES





MALE: MICROSPOROCTES

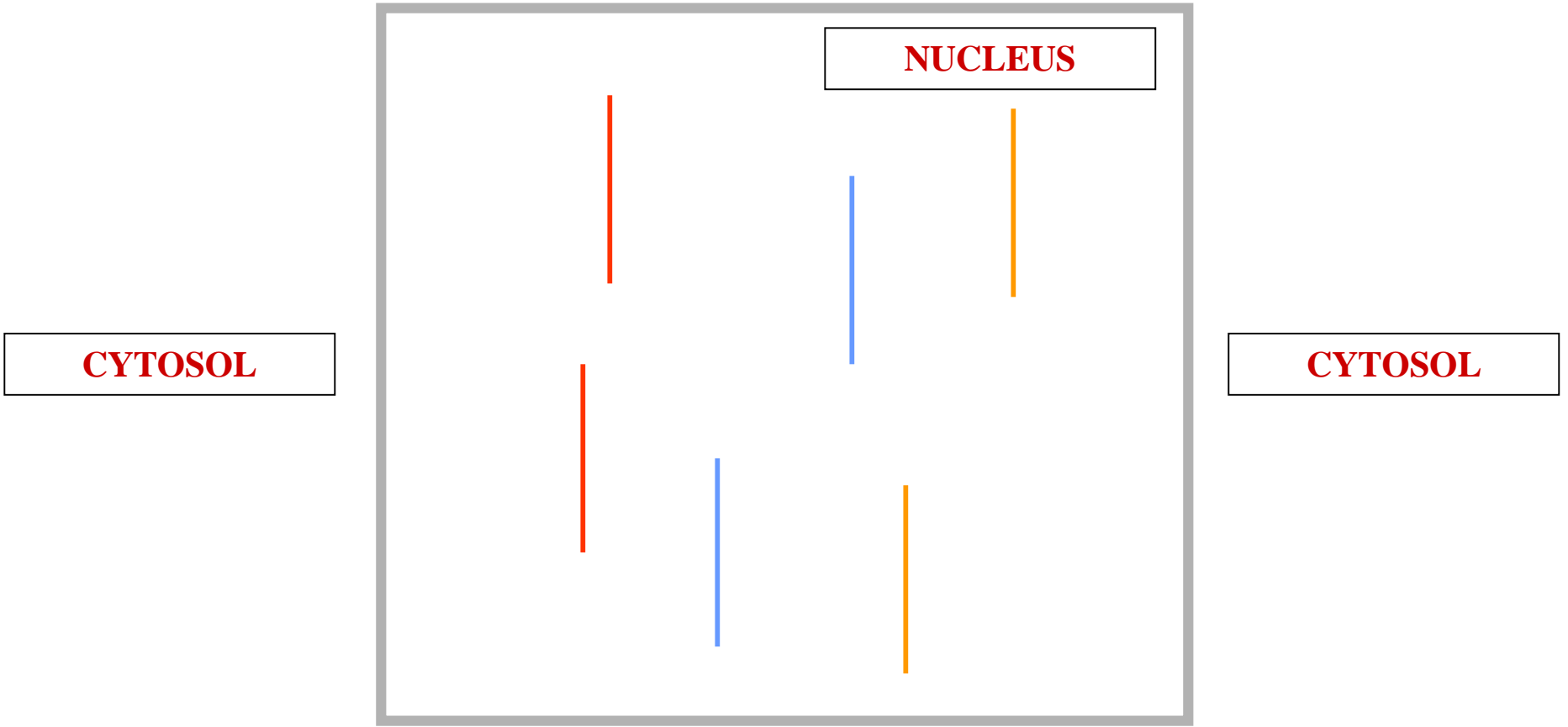




FEMALE: MEGASPOROCYTES



GERM MOTHER CELL

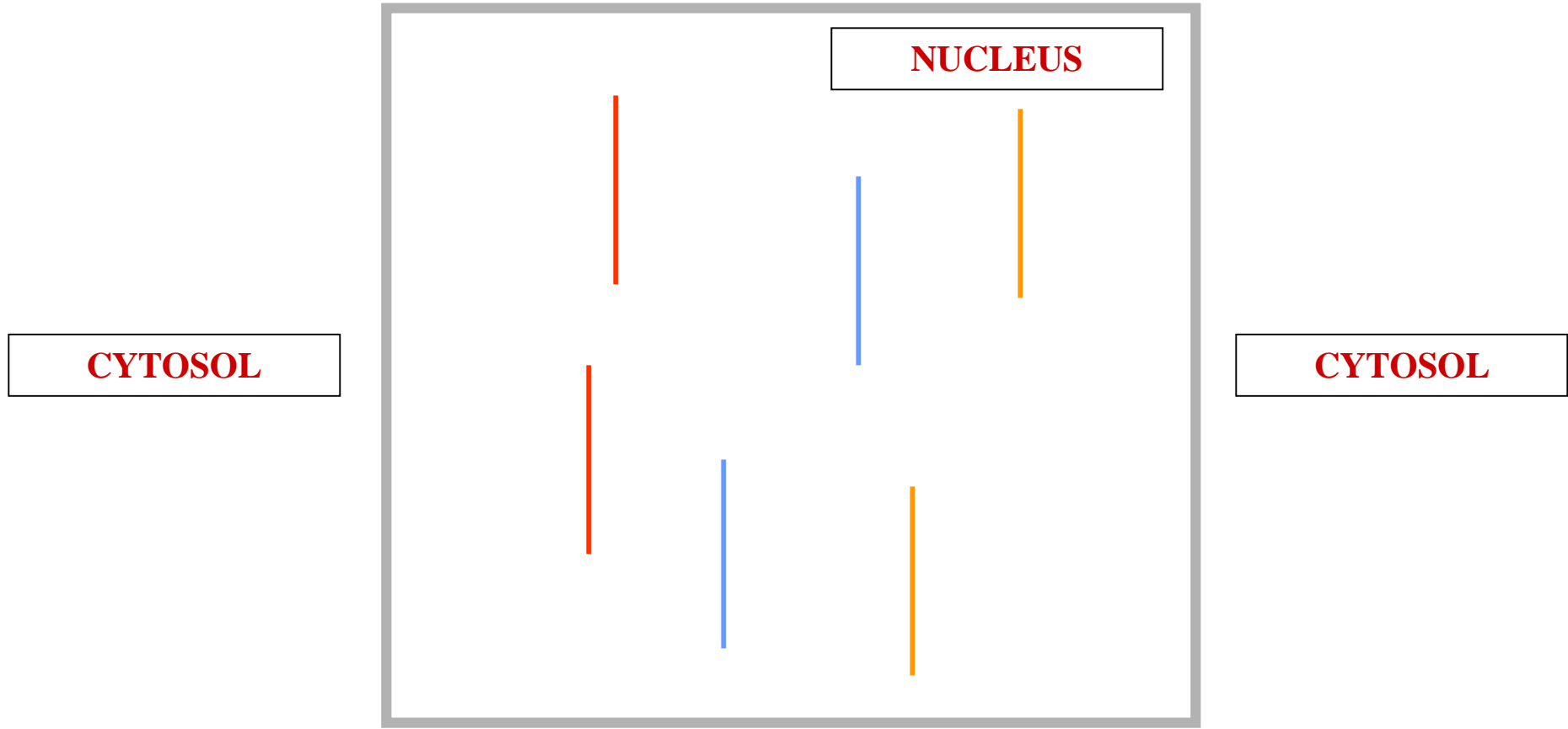


6 CHROMOSOMES



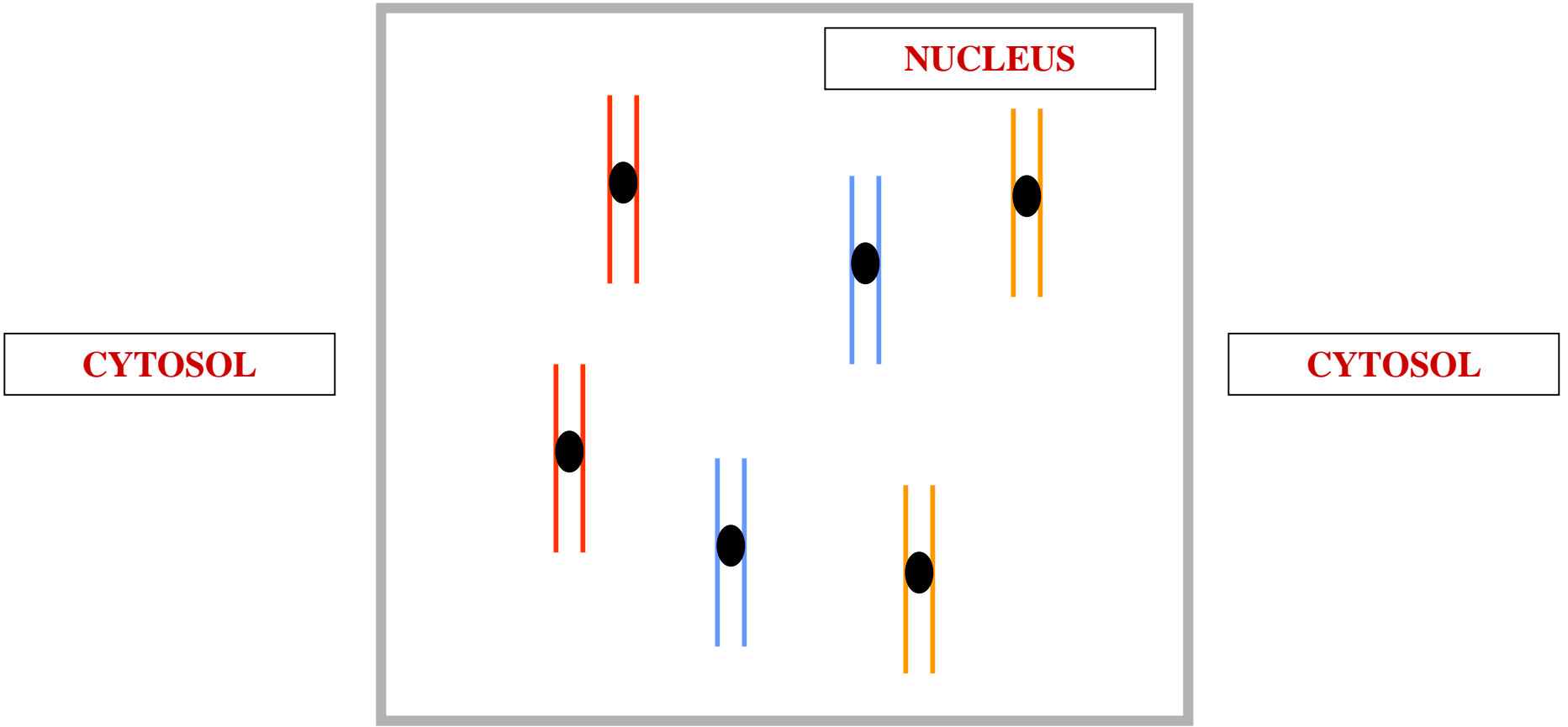
INTERPHASE-I

INTERPHASE - I



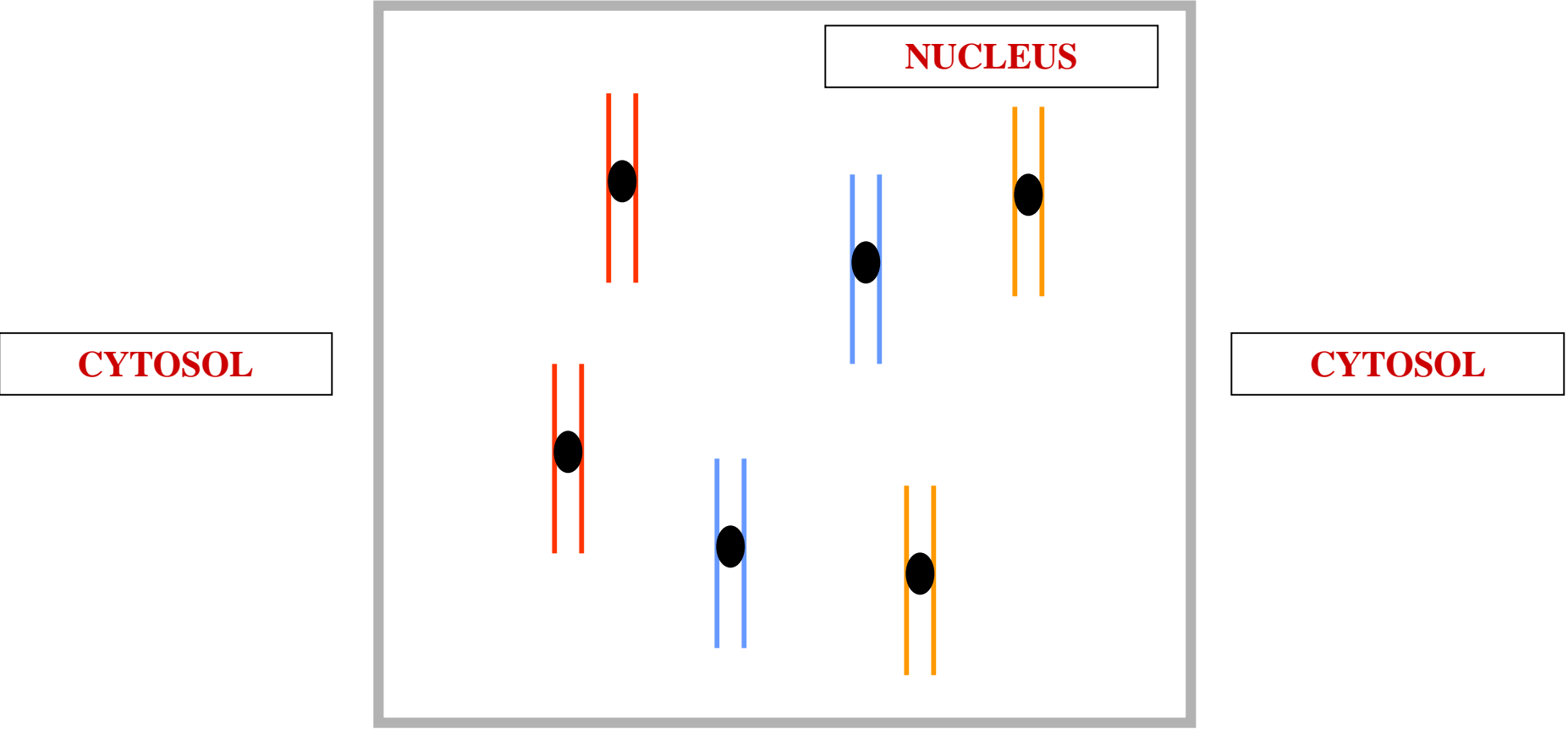
6 CHROMOSOMES

INTERPHASE - I



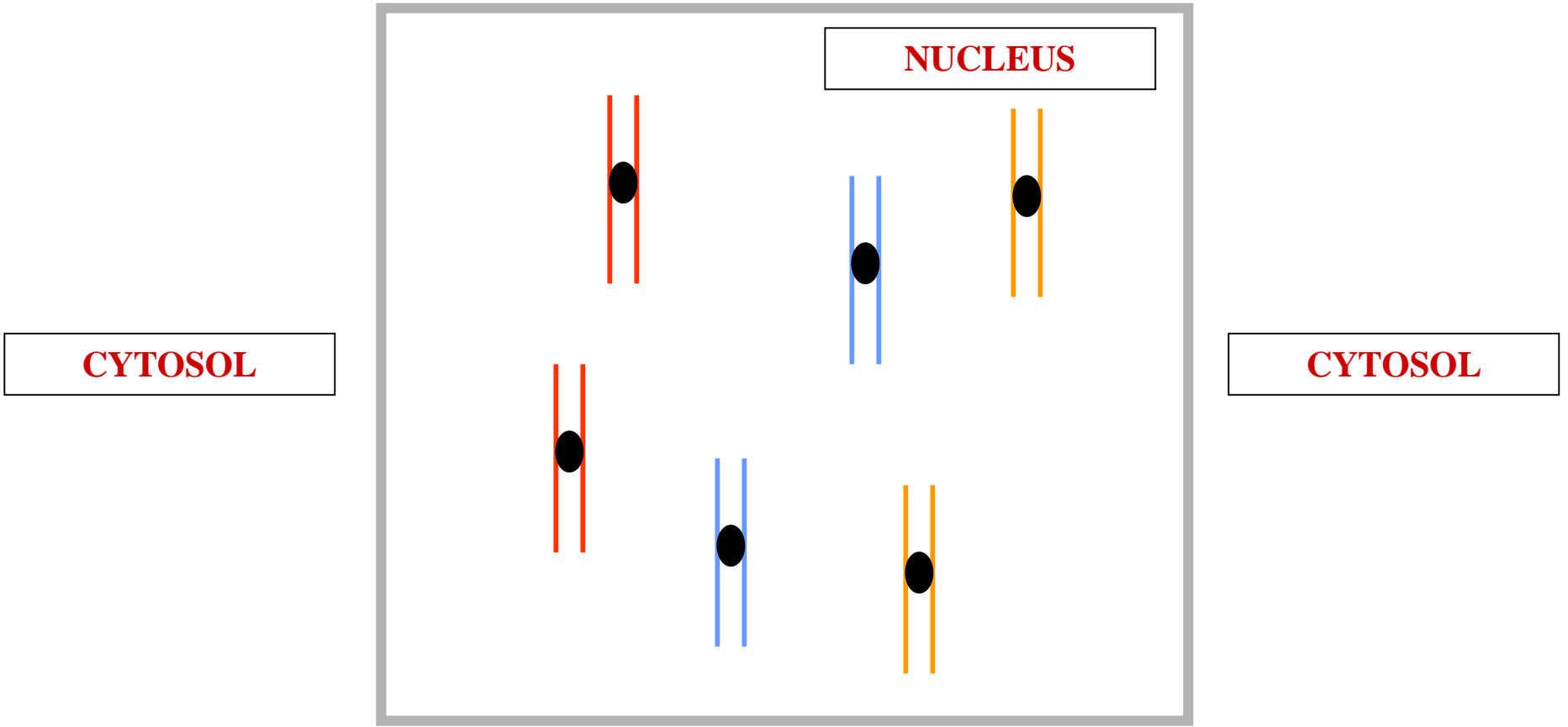
CHROMOSOMES REPLICATE

INTERPHASE - I



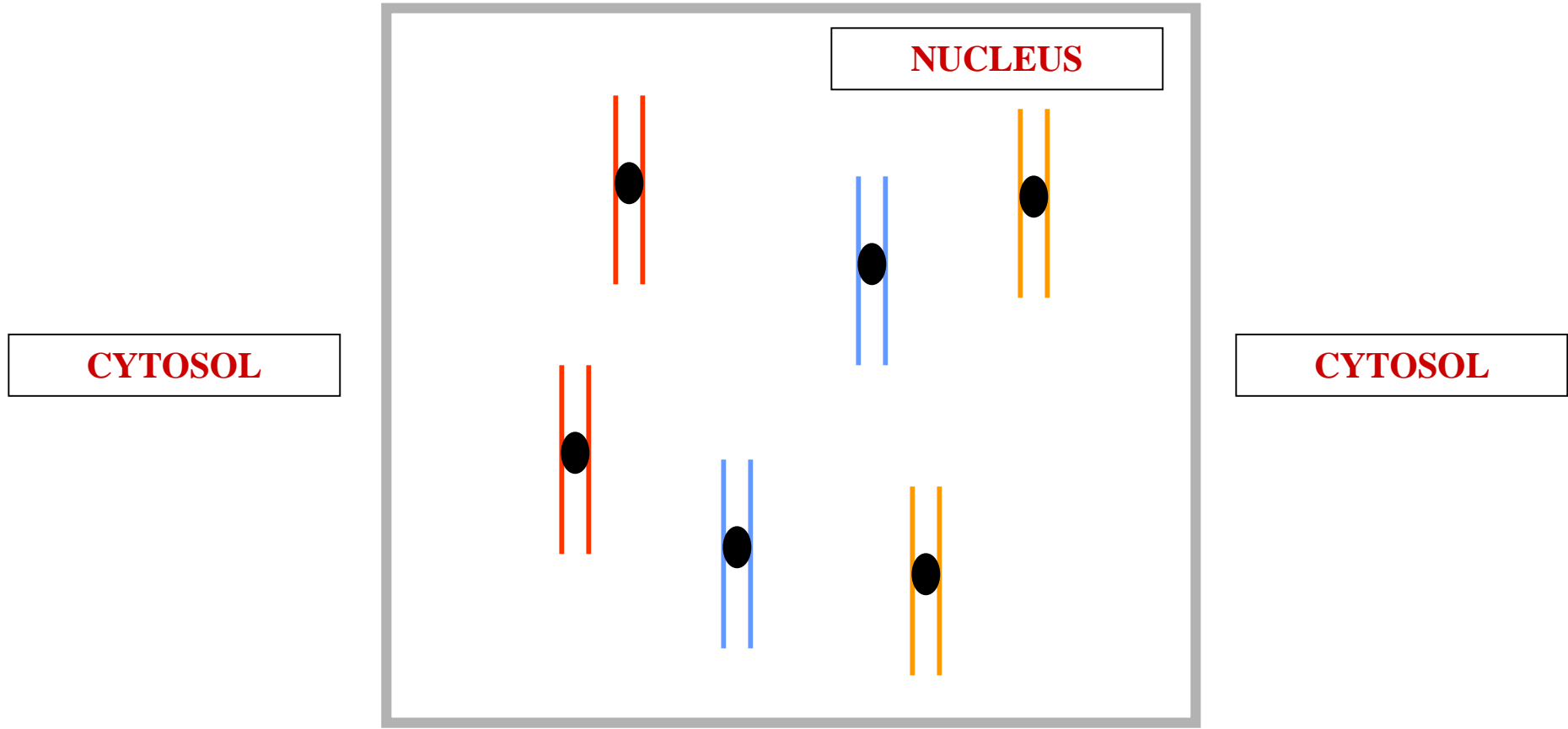
TWO CHROMATIDS

INTERPHASE - I



DNA CONTENT DOUBLED

INTERPHASE - I



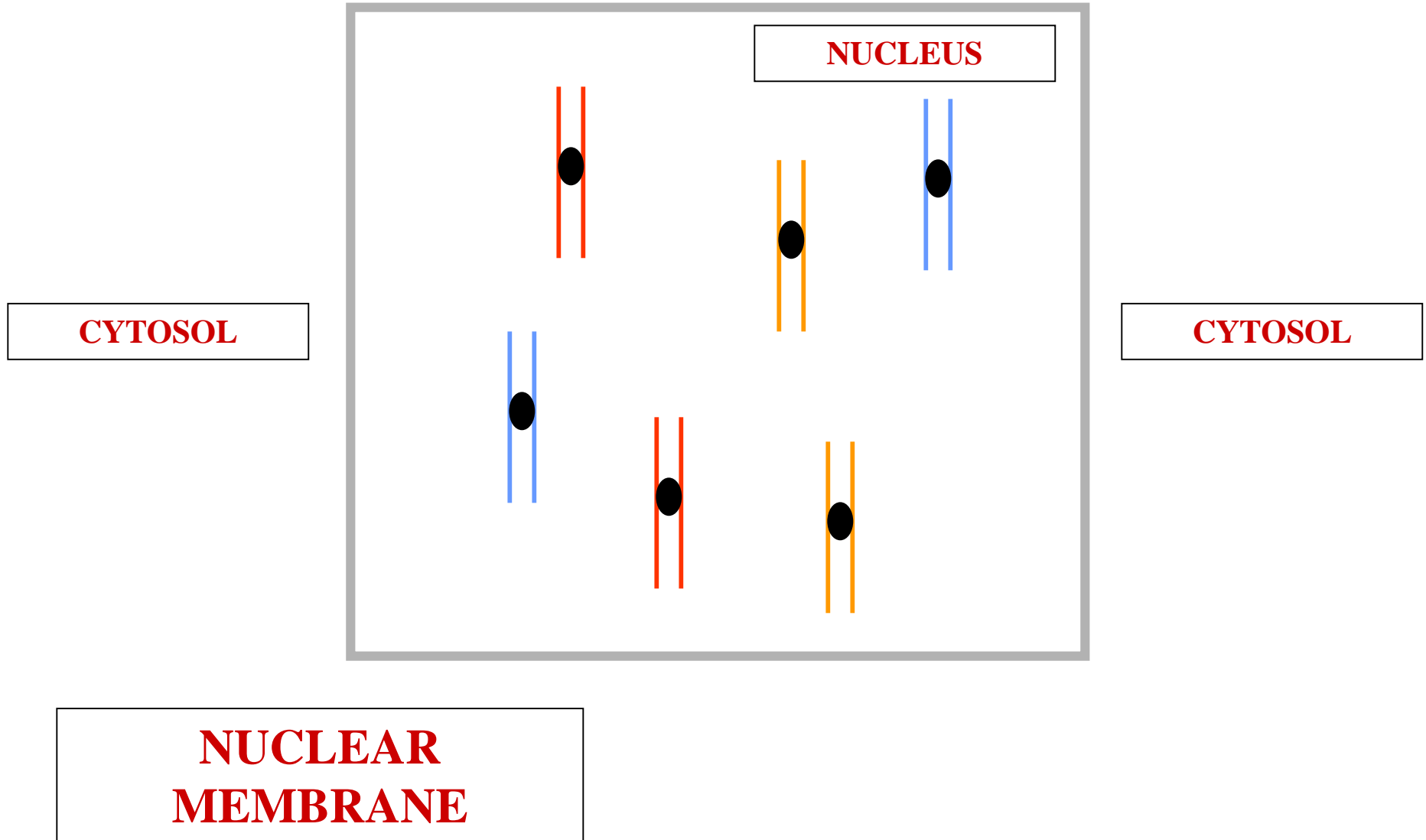
6 CHROMOSOMES

KARYOKINESIS-I

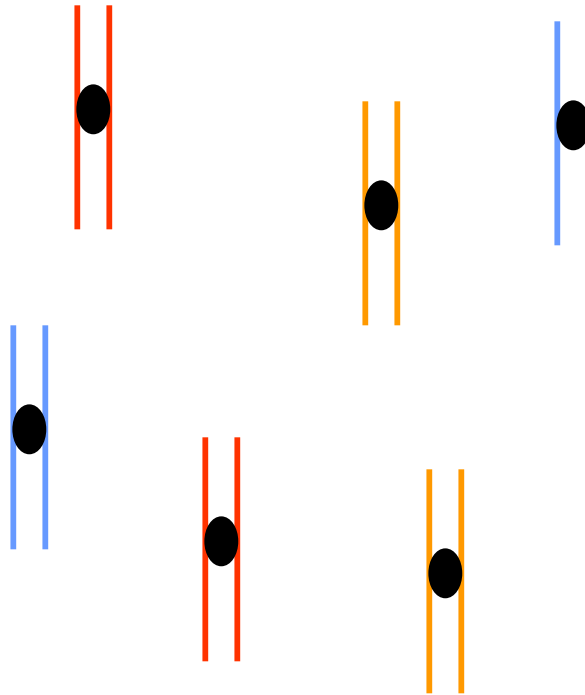


PROPHASE-I

PROPHASE - I

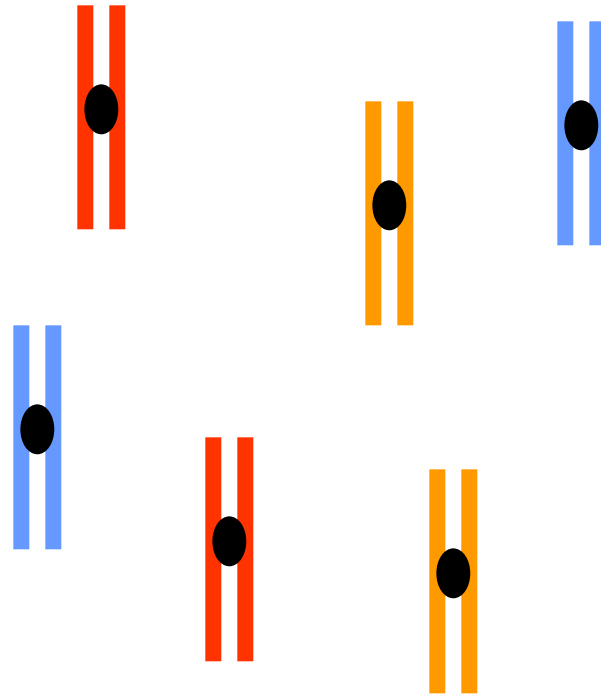


PROPHASE - I

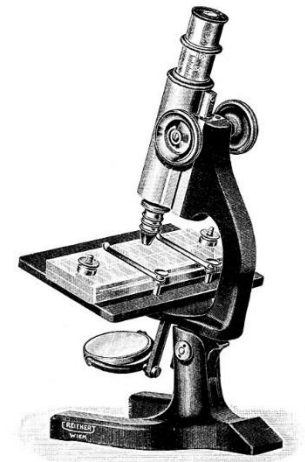


**NUCLEAR
MEMBRANE
DISSIPATES**

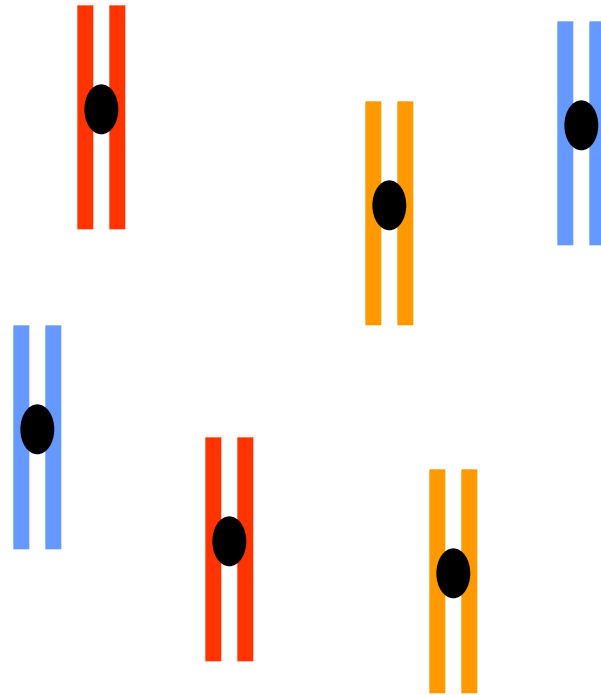
PROPHASE - I



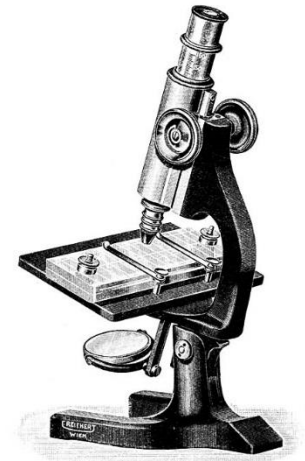
**CHROMOSOMES
CONDENSE**



PROPHASE - I



**HOMOLOGOUS
CHROMOSOMES**



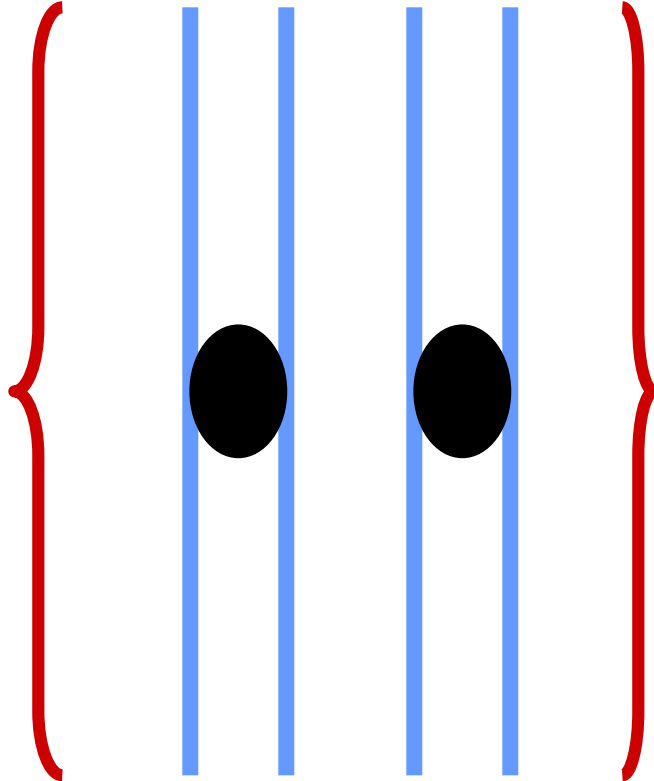
PROPHASE - I



**HOMOLOGOUS
CHROMOSOMES
PAIR**

PROPHASE - I

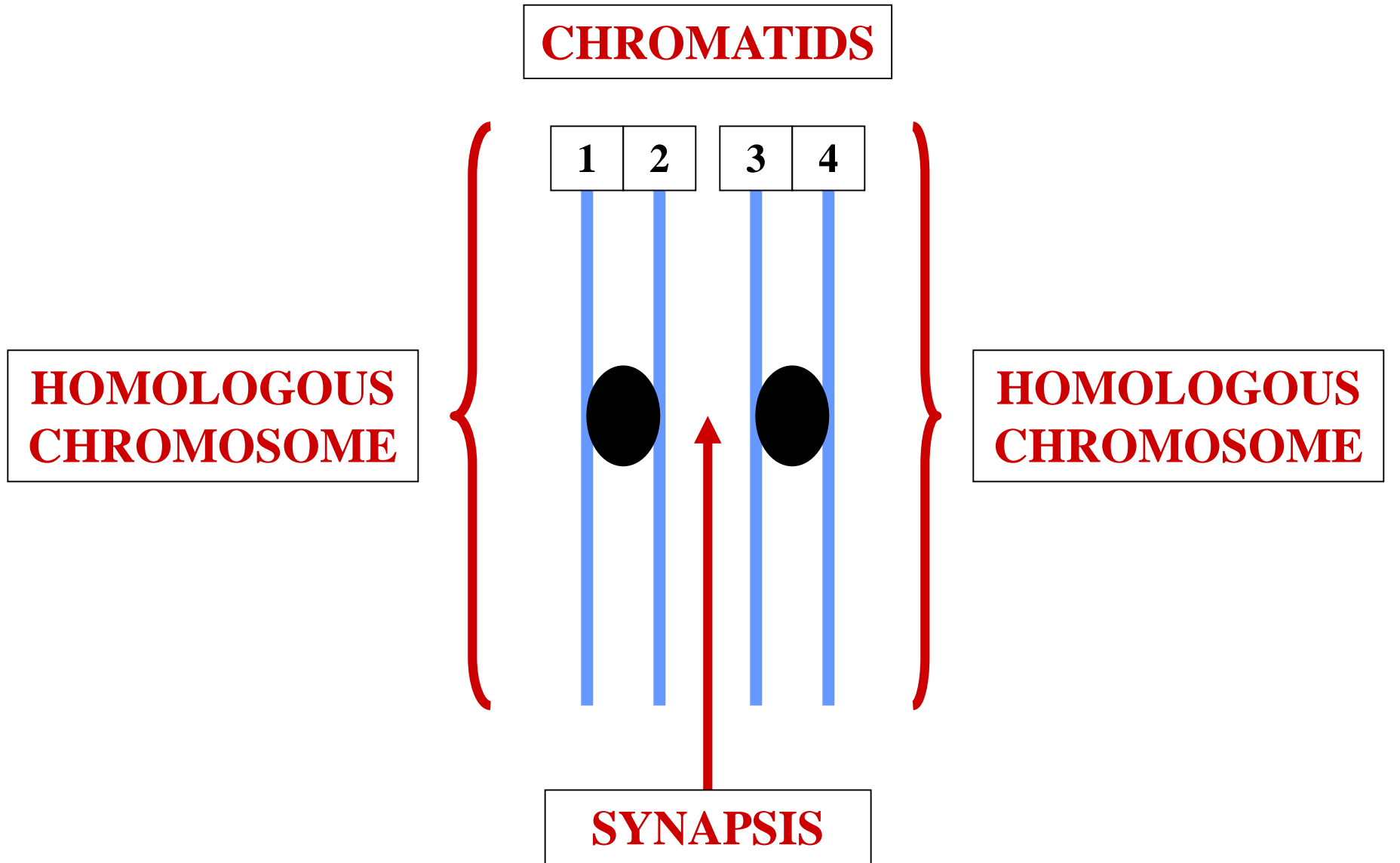
**HOMOLOGOUS
CHROMOSOME**



**HOMOLOGOUS
CHROMOSOME**

PAIR

PROPHASE - I



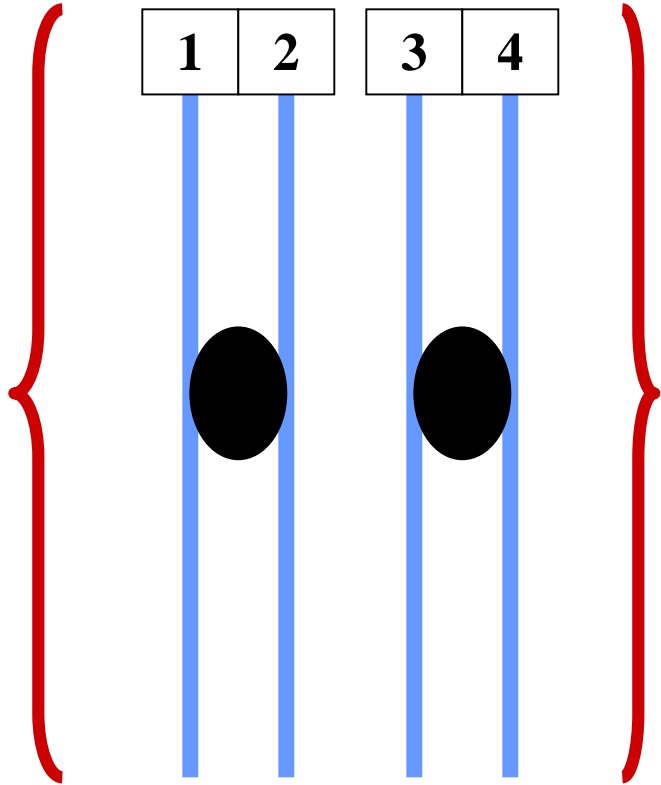
PROPHASE - I



CHROMATIDS

1 2 3 4

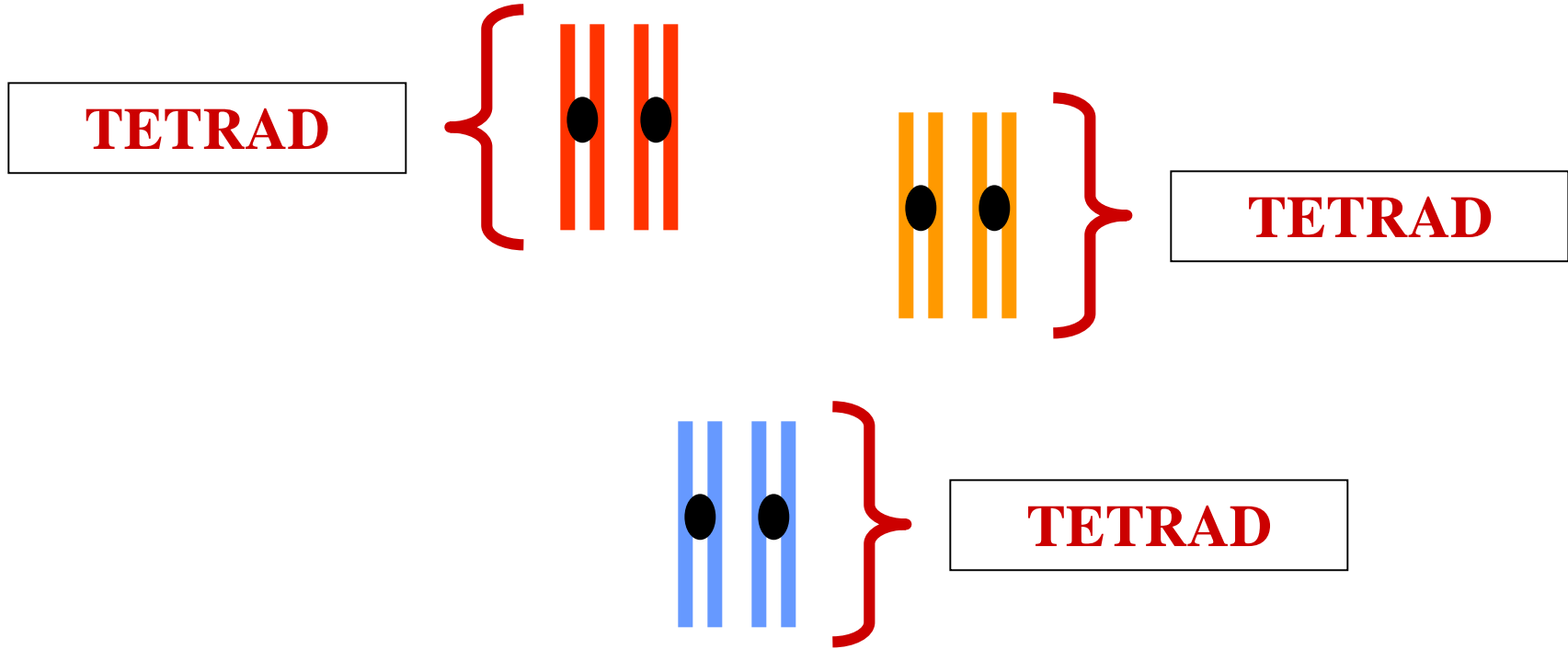
TETRAD



TETRAD

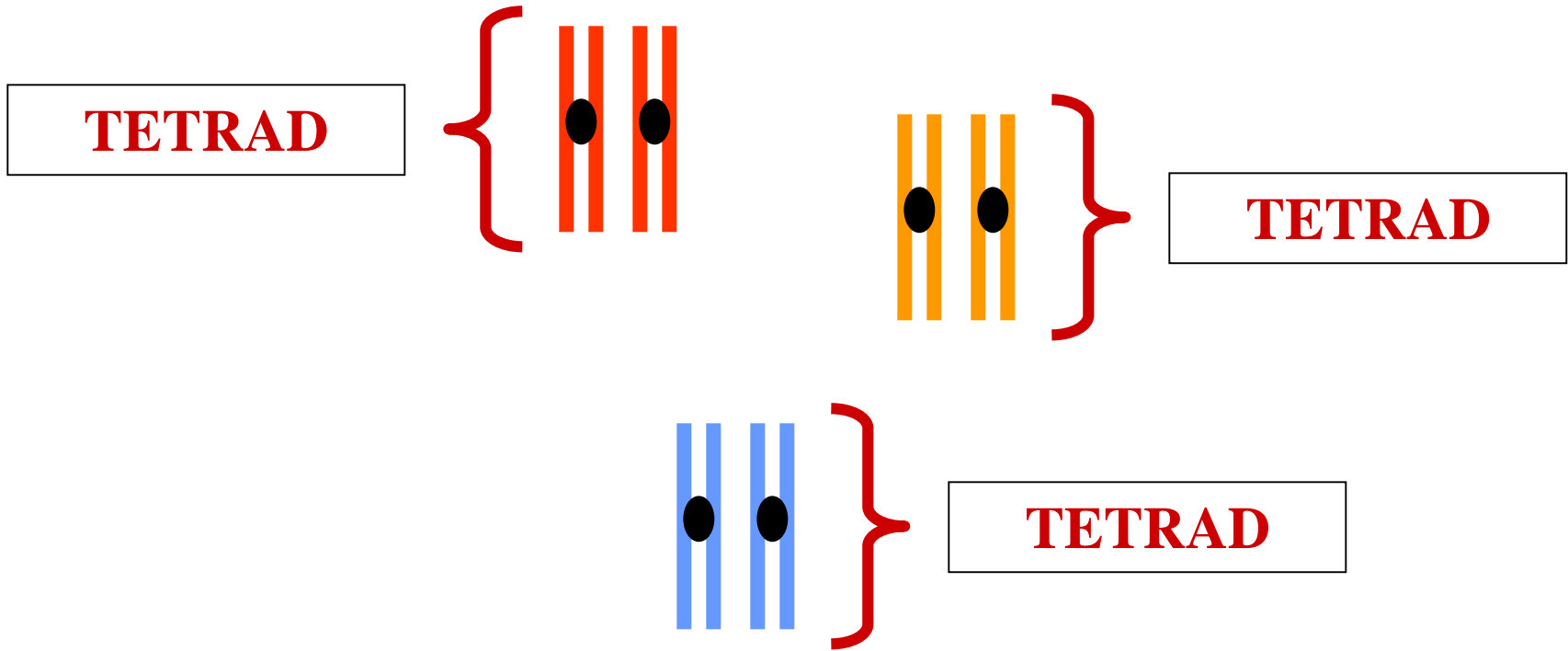
4 CHROMATIDS CLOSE PROXIMITY

PROPHASE - I



**HOMOLOGOUS
CHROMOSOME
TETRADS**

PROPHASE - I



**CROSSING-OVER
OCCURS**
DETAILS FORTHCOMING



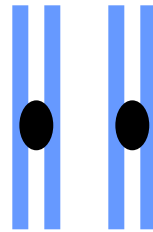
METAPHASE-I

METAPHASE - I



**HOMOLOGOUS
CHROMOSOME
TETRADS**

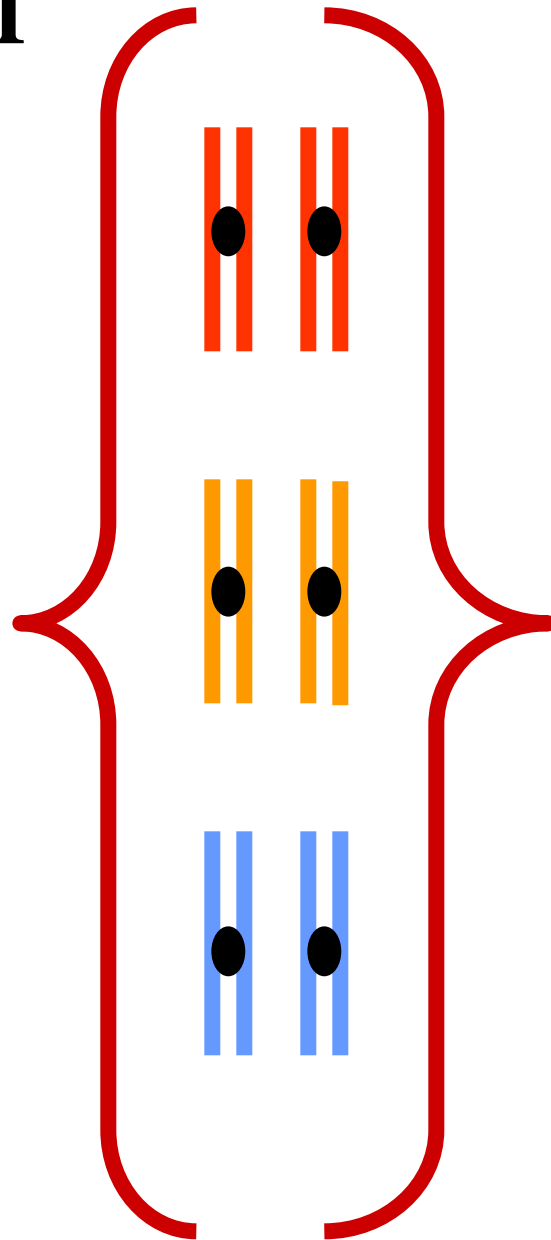
METAPHASE - I



**HOMOLOGOUS
CHROMOSOME
TETRADS**

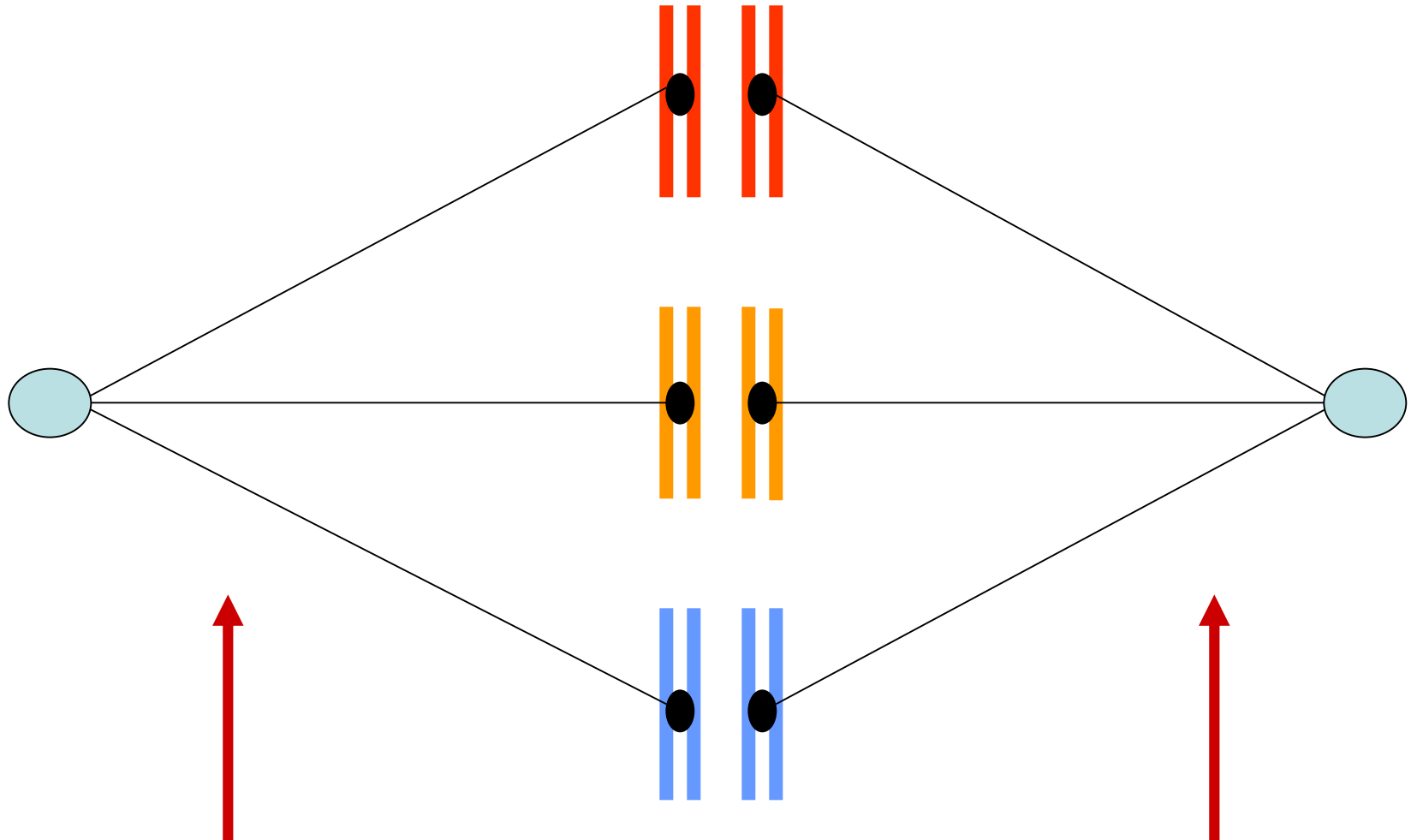
METAPHASE - I

**EQUATORIAL
PLANE**



**EQUATORIAL
PLANE**

METAPHASE - I



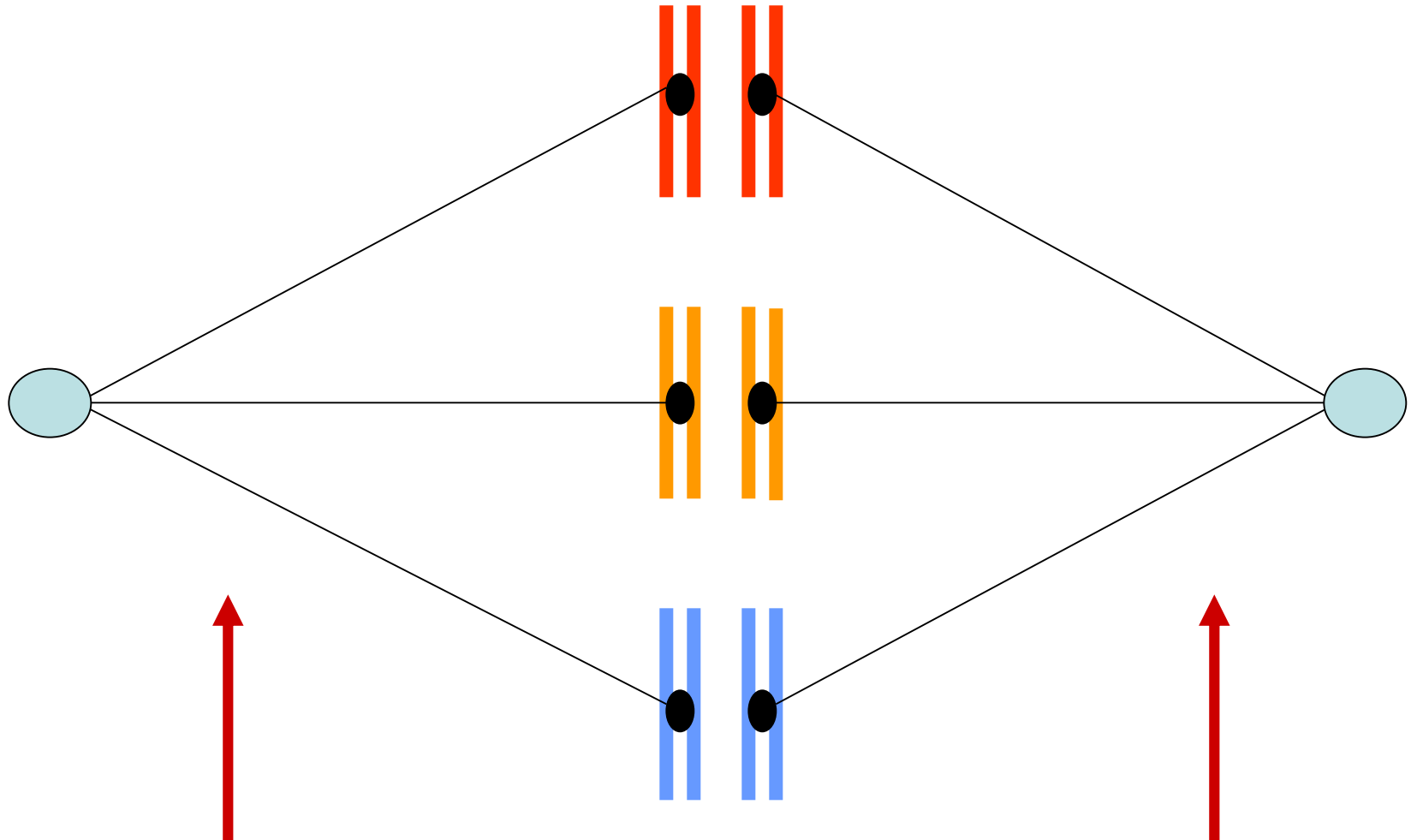
**MICROTUBULE
SPINDLE COMPLEX**

**MICROTUBULE
SPINDLE COMPLEX**



ANAPHASE-I

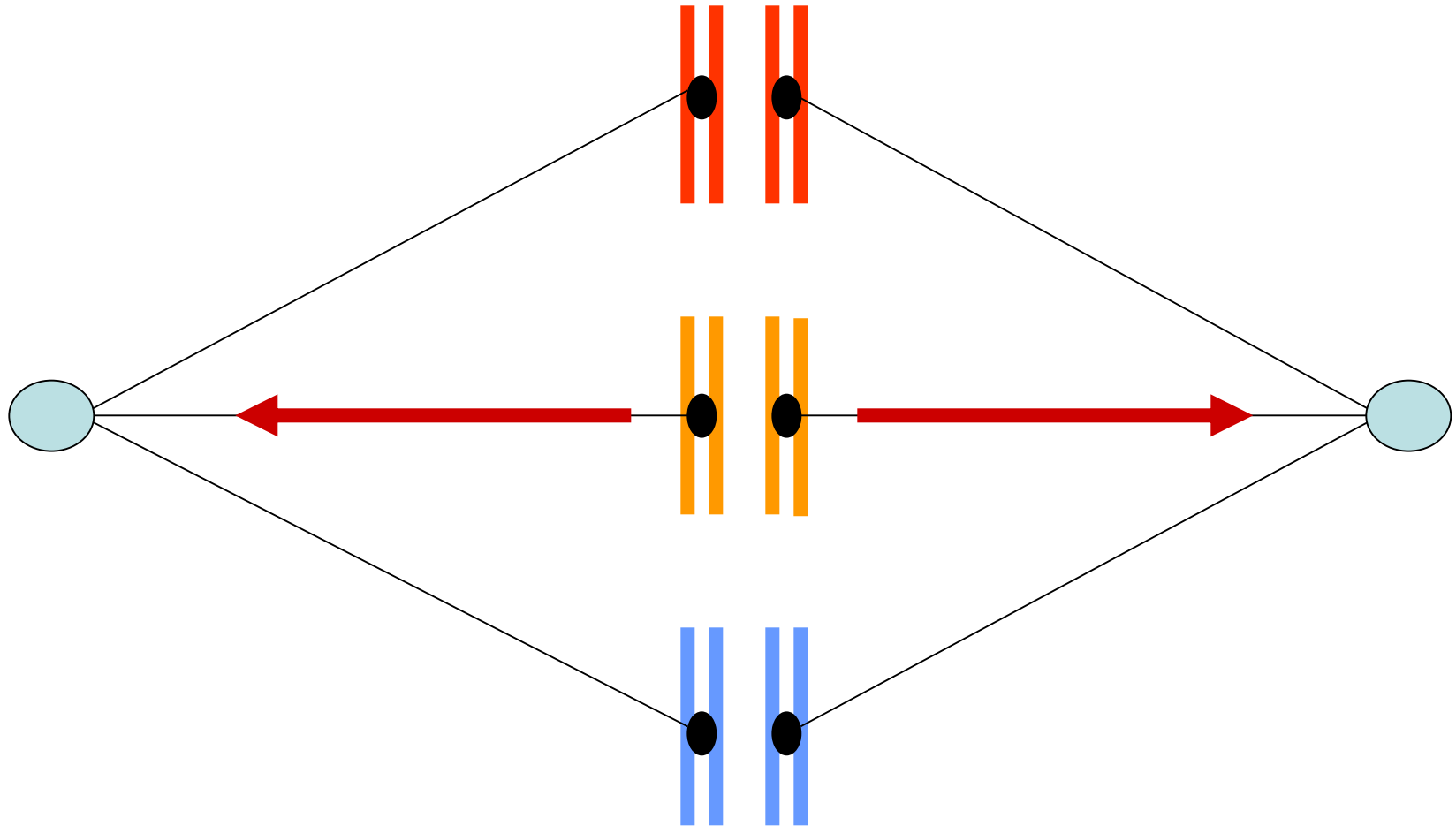
ANAPHASE - I



**MICROTUBULE
SPINDLE COMPLEX**

**MICROTUBULE
SPINDLE COMPLEX**

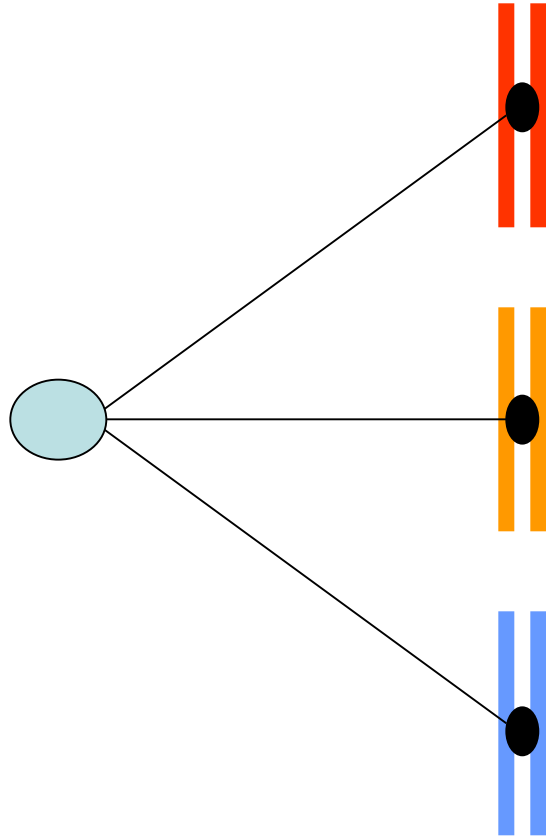
ANAPHASE - I



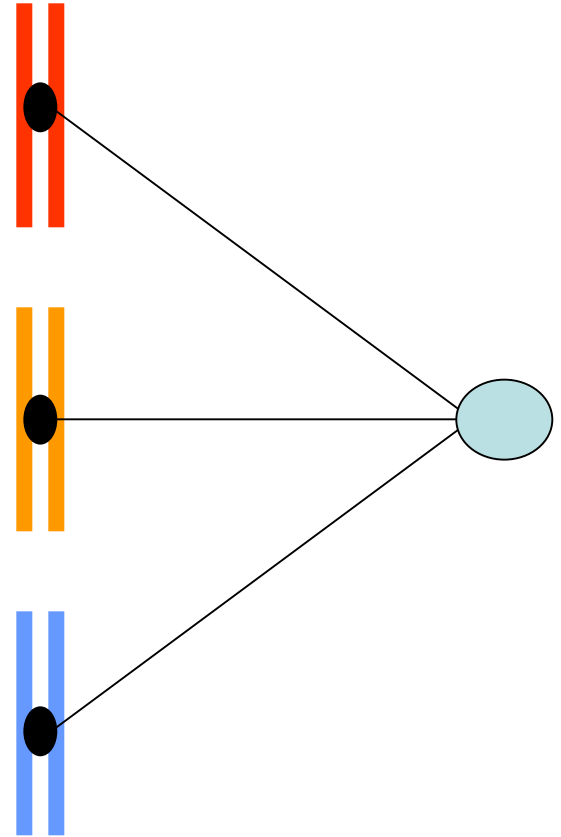
**SPINDLE COMPLEX
CONTRACTS**

**SPINDLE COMPLEX
CONTRACTS**

ANAPHASE - I

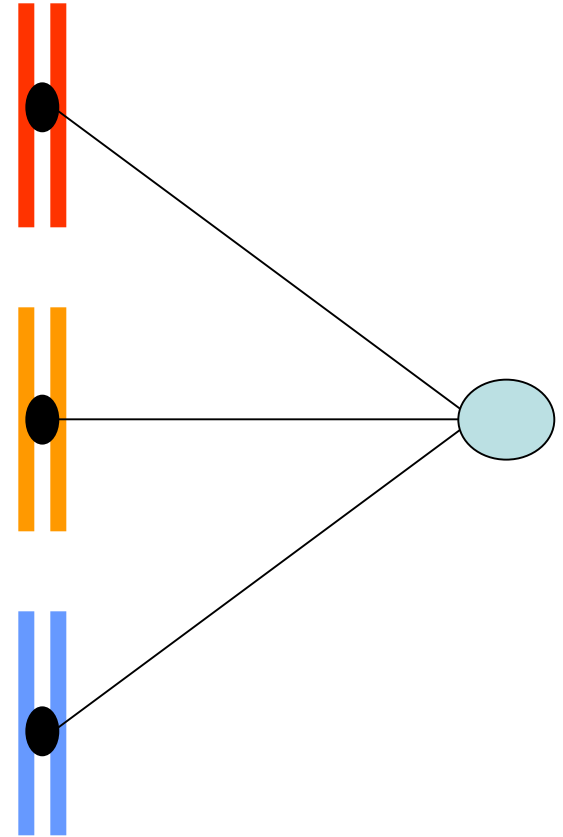
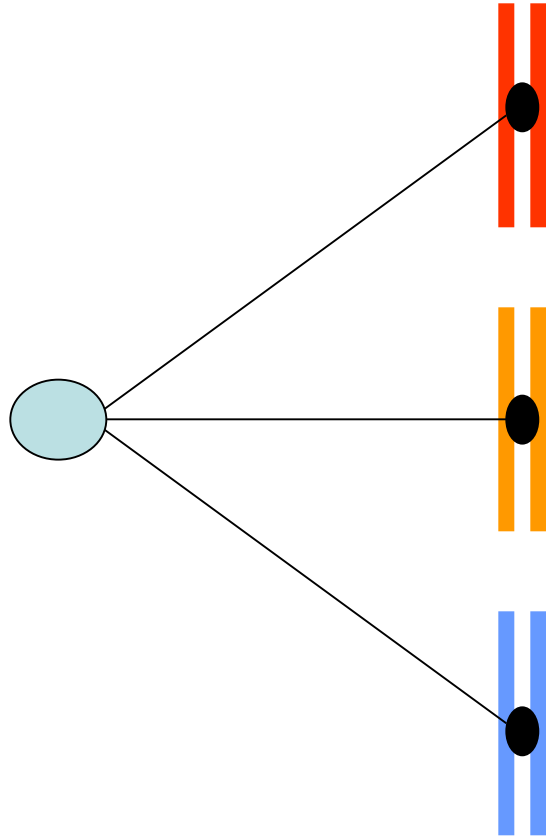


?
BREAK-DOWN



?
BREAK-DOWN

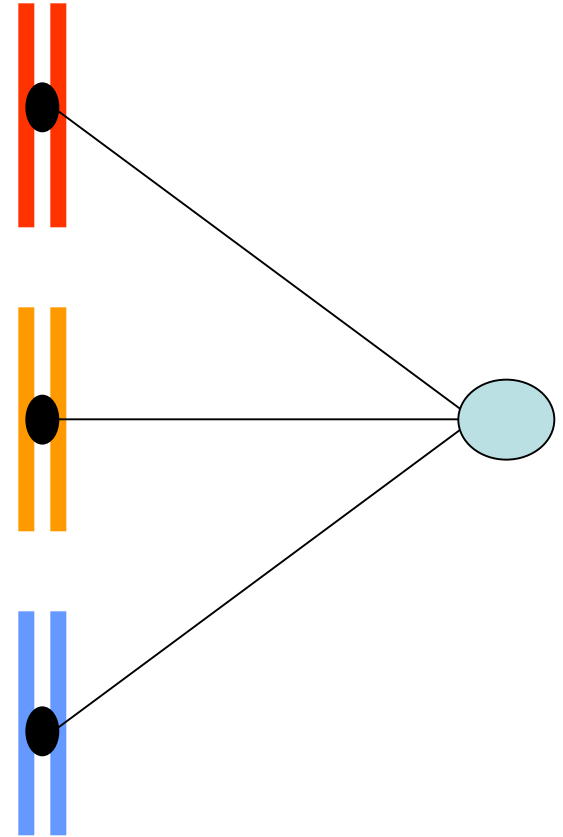
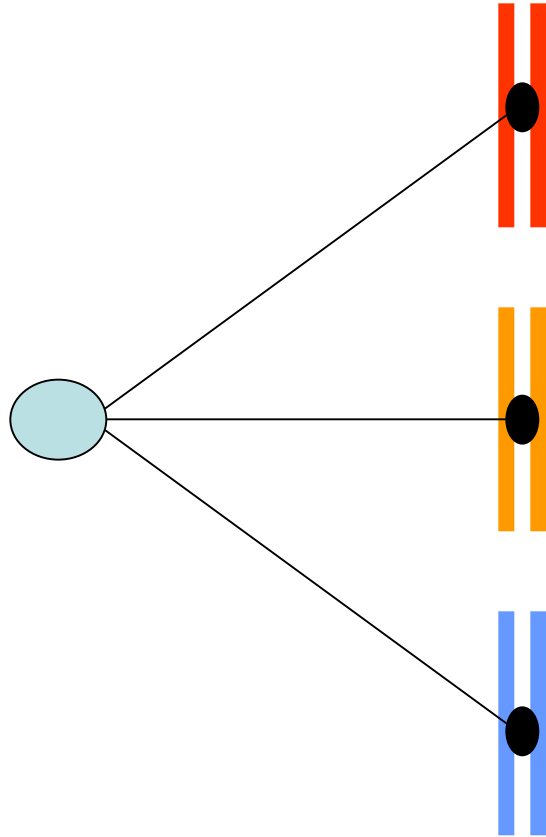
ANAPHASE - I



**TETRAD SYNAPSES
BREAK-DOWN**

**TETRAD SYNAPSES
BREAK-DOWN**

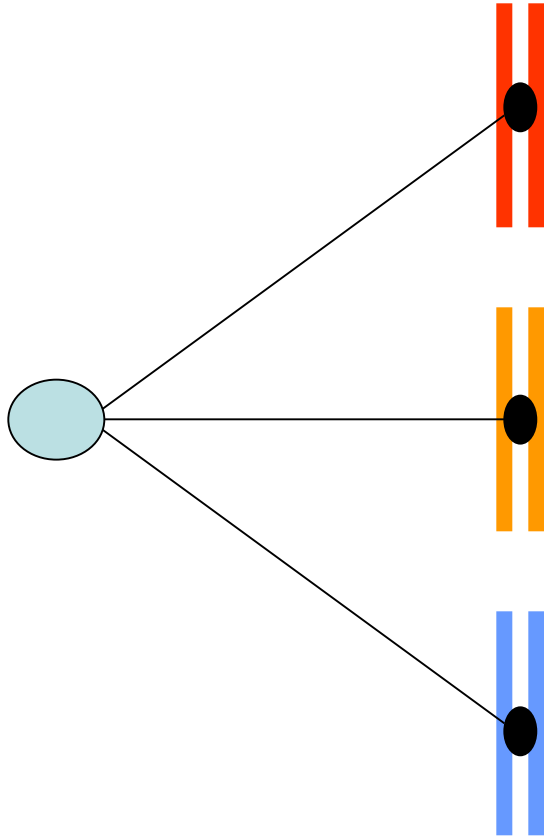
ANAPHASE - I



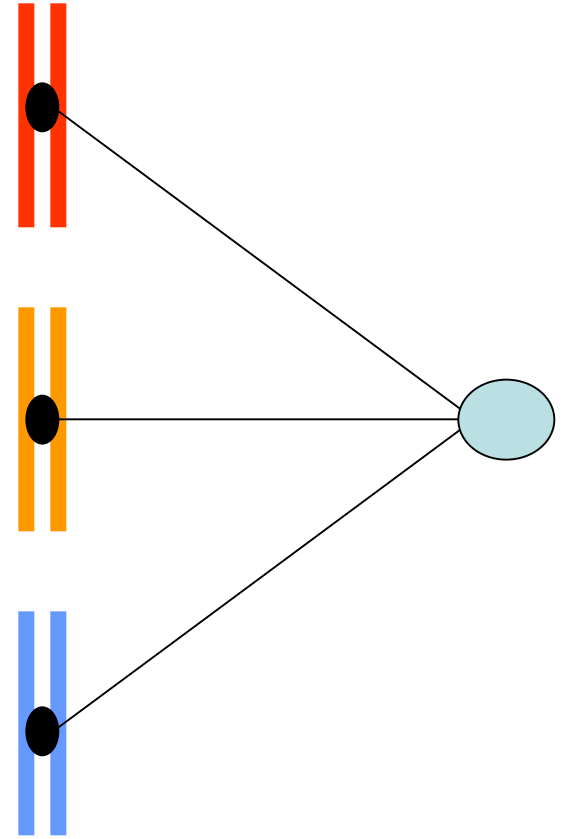
**CENTROMERES
REMAIN INTACT**

**CENTROMERES
REMAIN INTACT**

ANAPHASE - I



**CHROMOSOMES
OPPOSITE POLES**

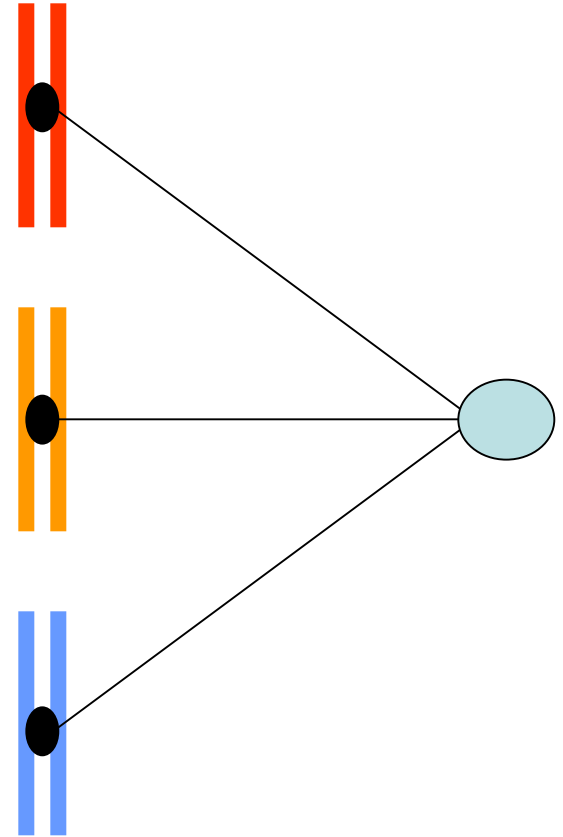
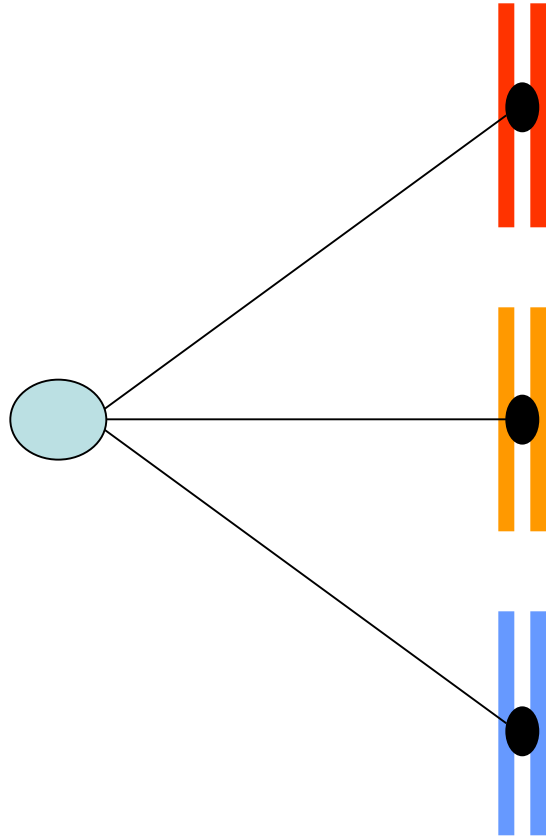


**CHROMOSOMES
OPPOSITE POLES**



TELOPHASE-I

TELOPHASE - I



**CHROMOSOMES
OPPOSITE POLES**

**CHROMOSOMES
OPPOSITE POLES**

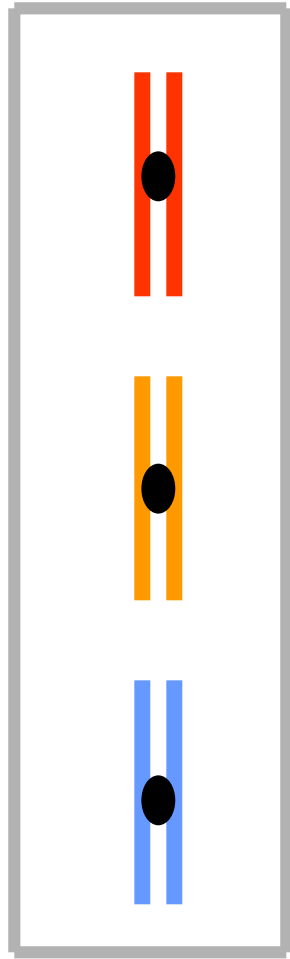
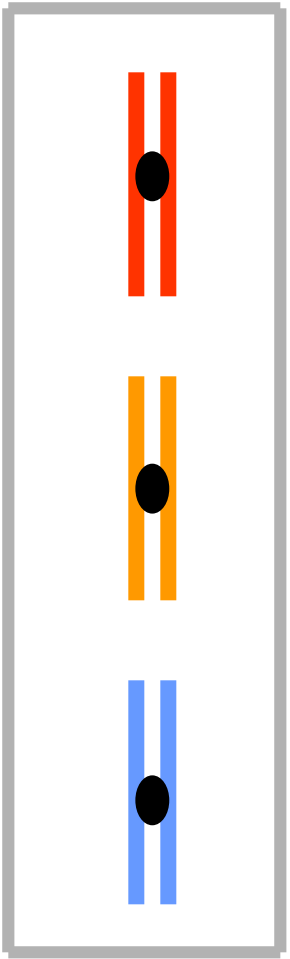
TELOPHASE - I



**SPINDLE COMPLEX
DISSIPATES**

**SPINDLE COMPLEX
DISSIPATES**

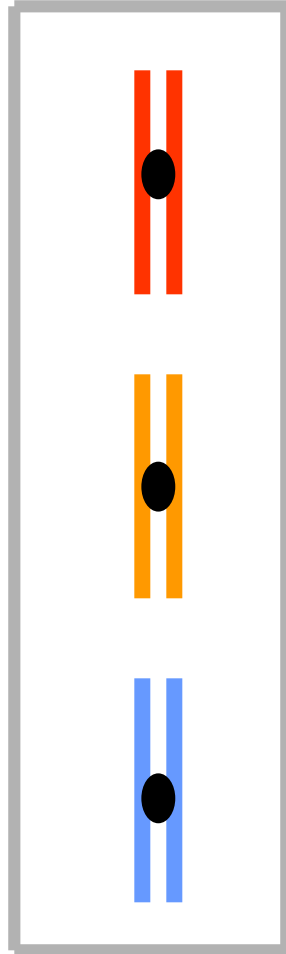
TELOPHASE - I



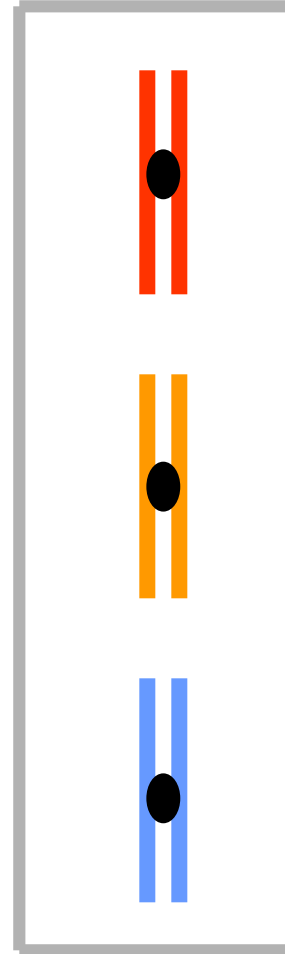
**NUCLEAR MEMBRANE
FORMS**

**NUCLEAR MEMBRANE
FORMS**

TELOPHASE - I



**DAUGHTER
NUCLEUS**



**DAUGHTER
NUCLEUS**



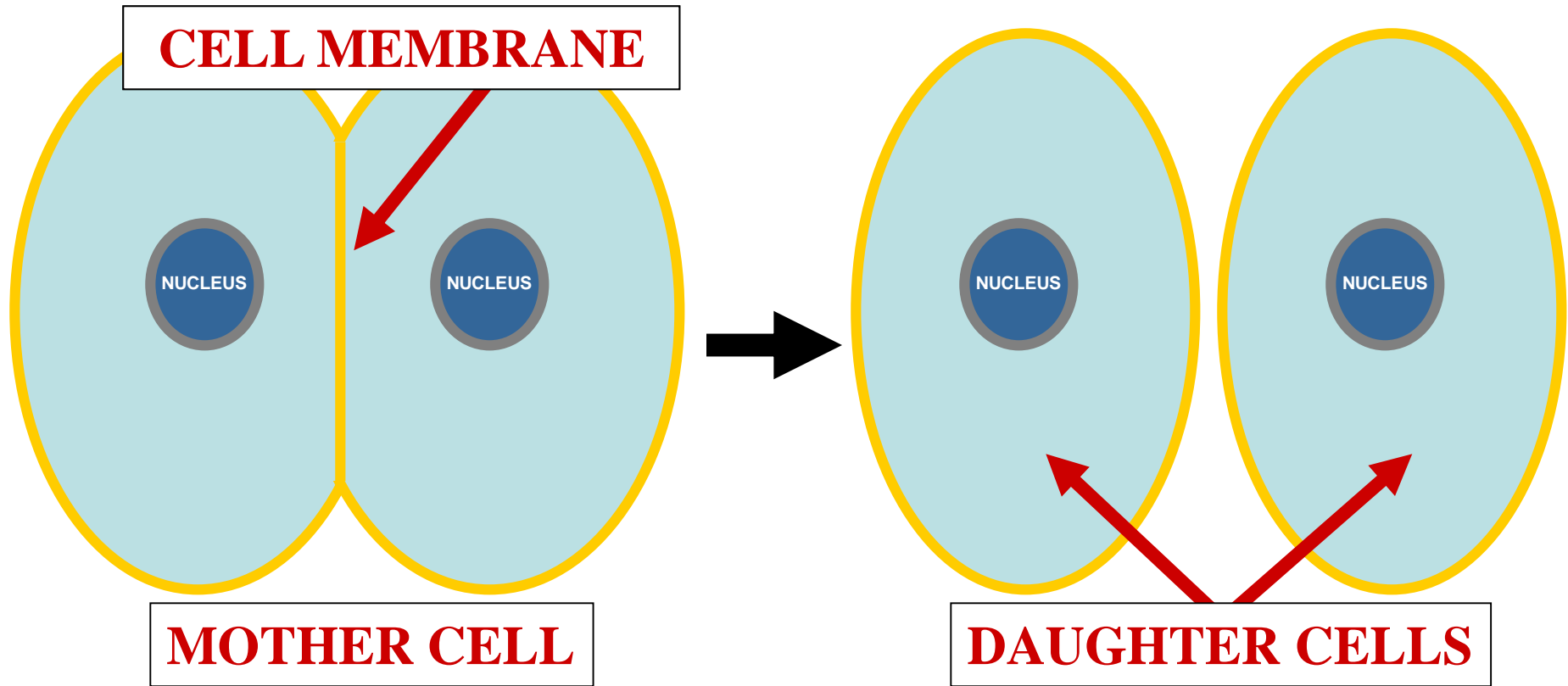
CYTOKINESIS-I



ANIMAL CYTOKINESIS



CYTOKINESIS FURROWING



CYTOKINESIS FURROWING

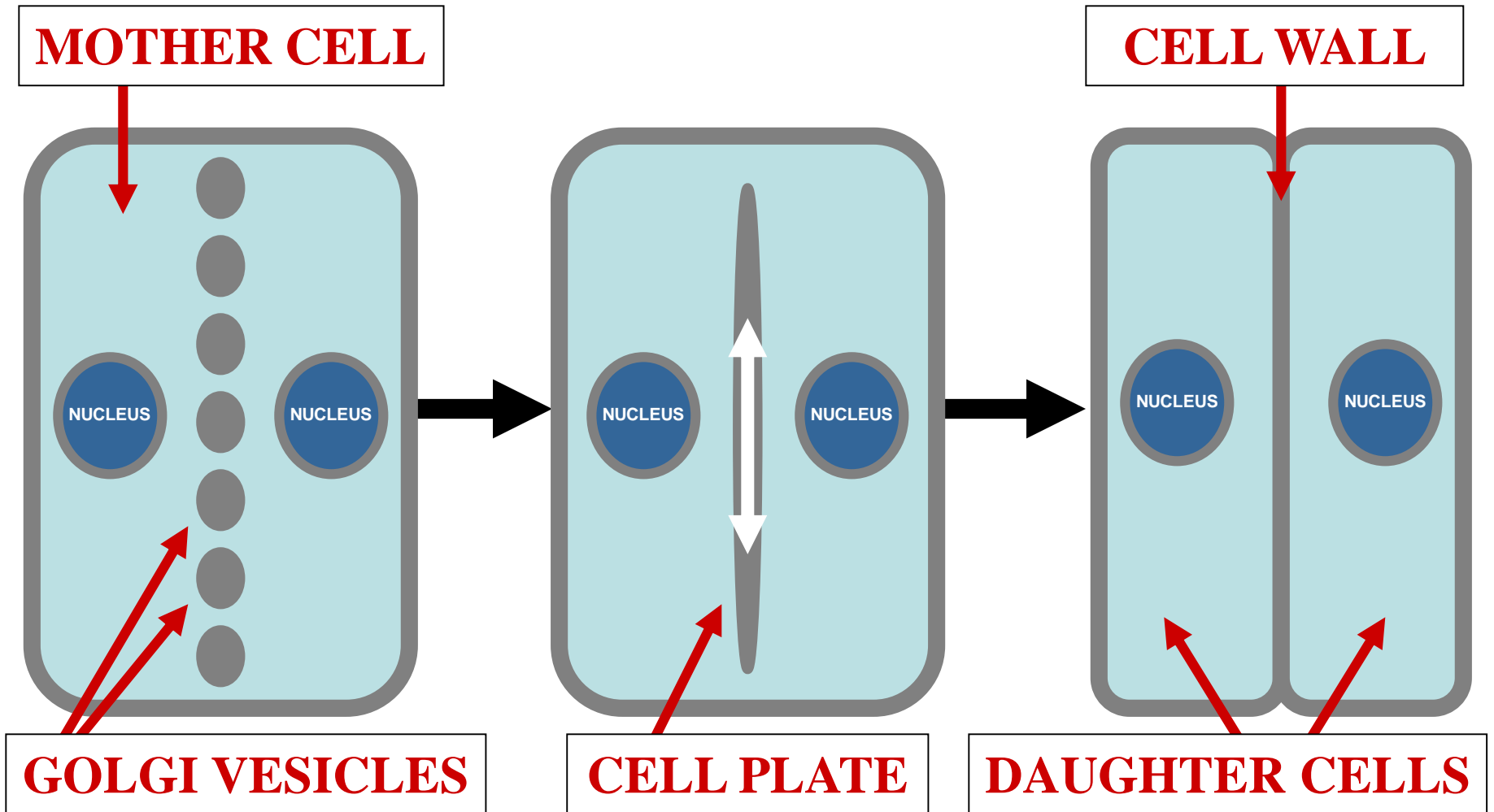


PLANT CYTOKINESIS

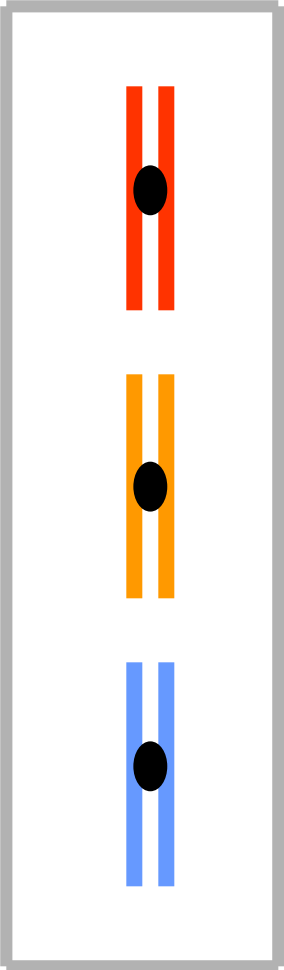


CYTOKINESIS

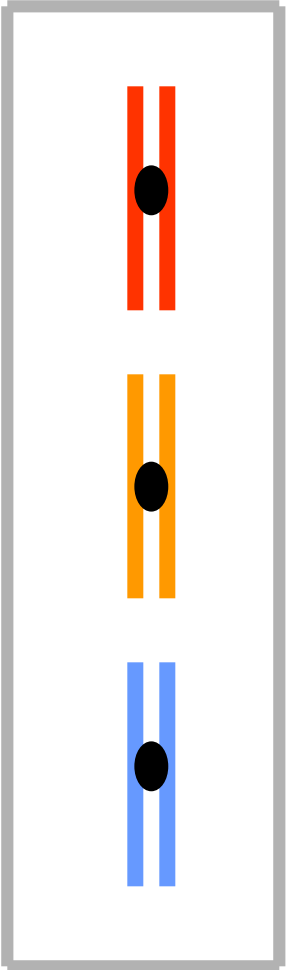
CELL PLATE



CYTOKINESIS - I

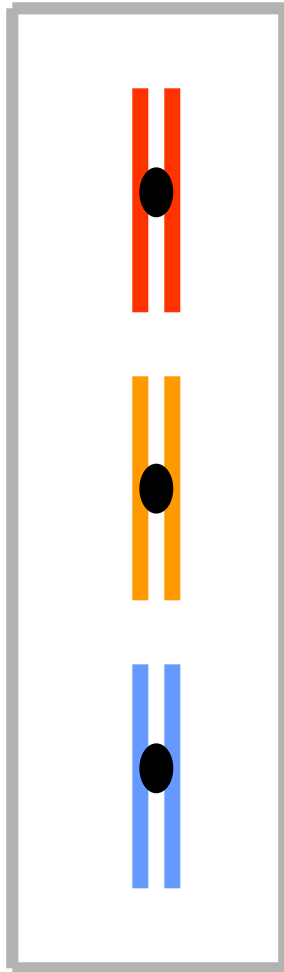


CELL

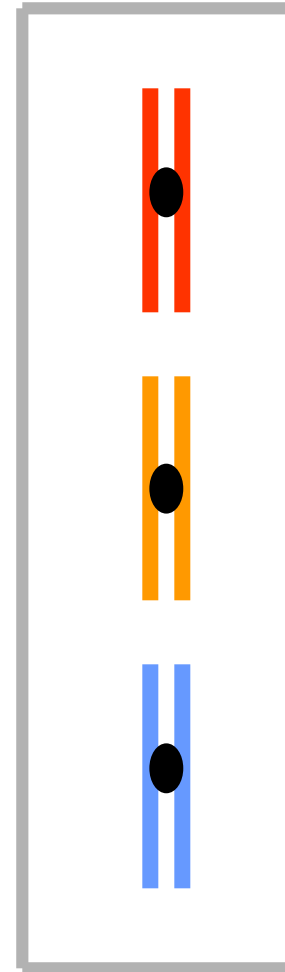


CELL

CYTOKINESIS - I

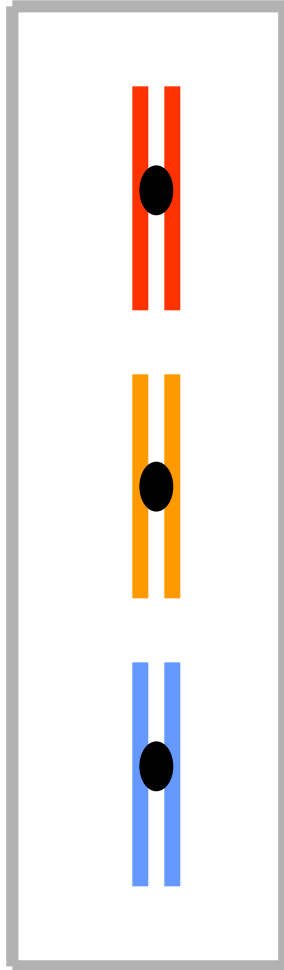


**HOW MANY
CHROMOSOMES?**

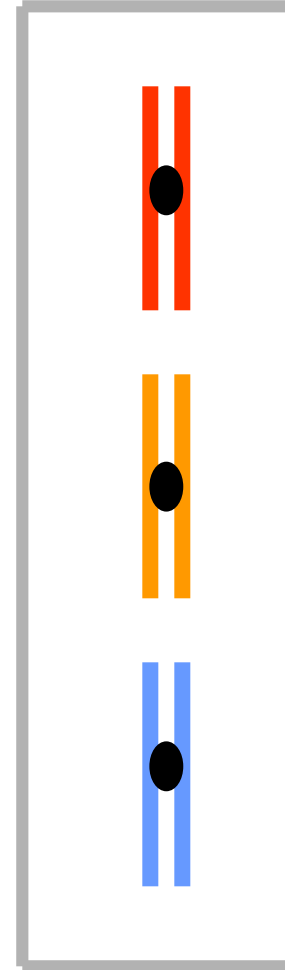


**HOW MANY
CHROMOSOMES?**

CYTOKINESIS - I

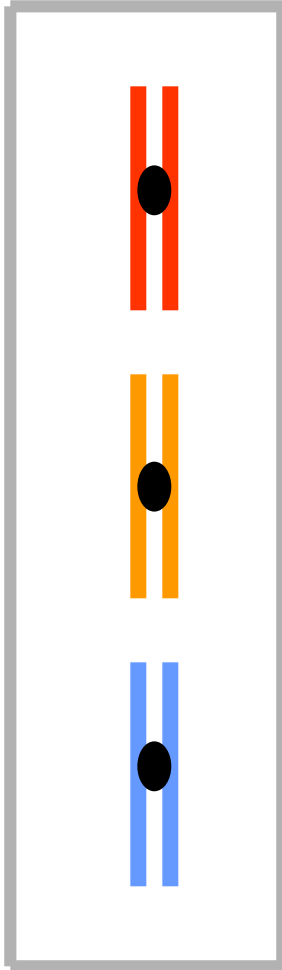


3 CHROMOSOMES

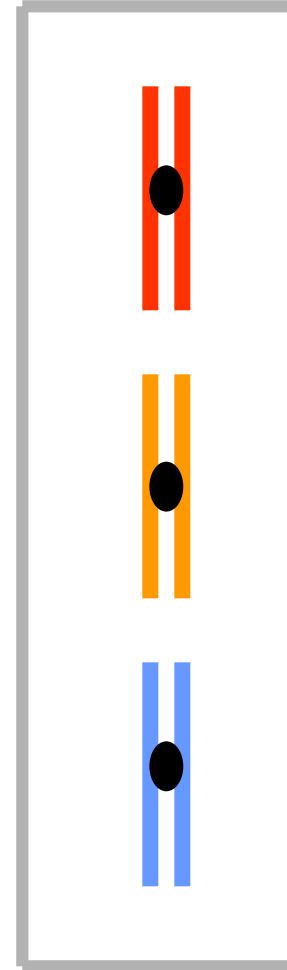


3 CHROMOSOMES

CYTOKINESIS - I

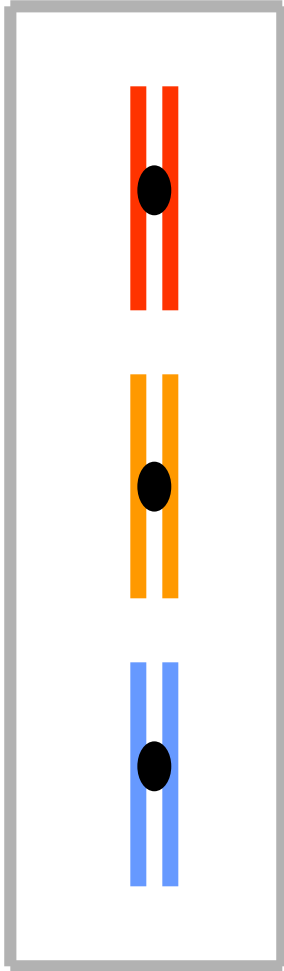


**HAPLOID OR DIPLOID
CELL?**

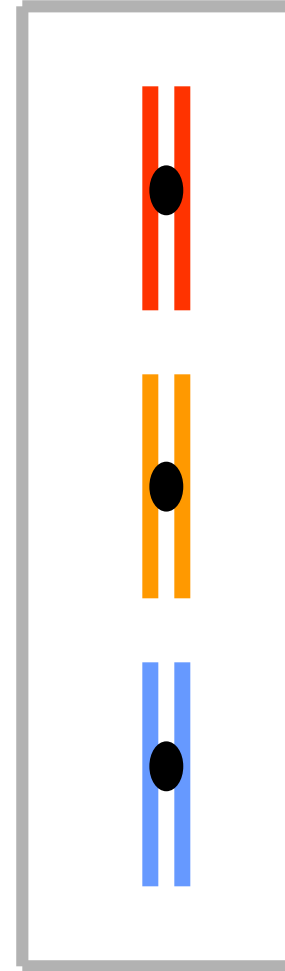


**HAPLOID OR DIPLOID
CELL?**

CYTOKINESIS - I

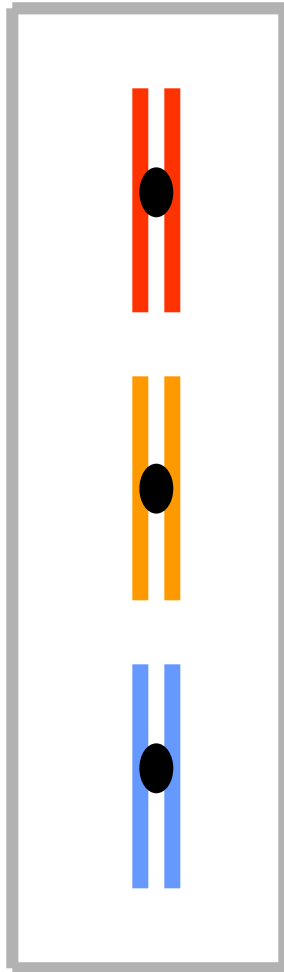


HAPLOID CELL

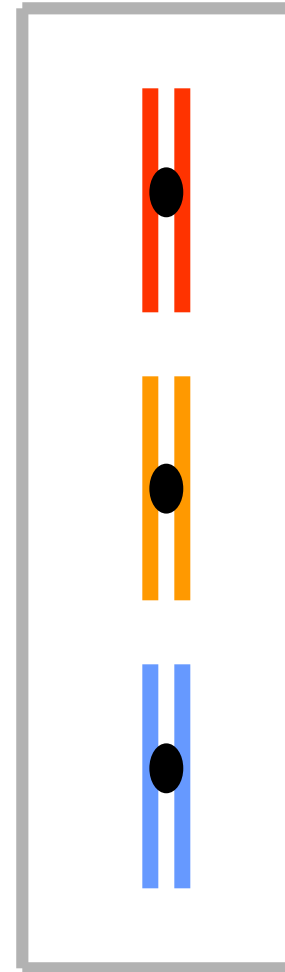


HAPLOID CELL

CYTOKINESIS - I



**ENTER INTERPHASE-II
CONCURRENTLY**

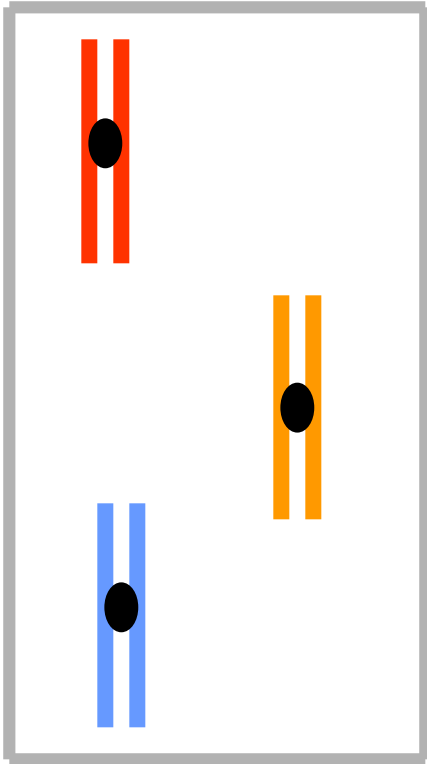


**ENTER INTERPHASE-II
CONCURRENTLY**

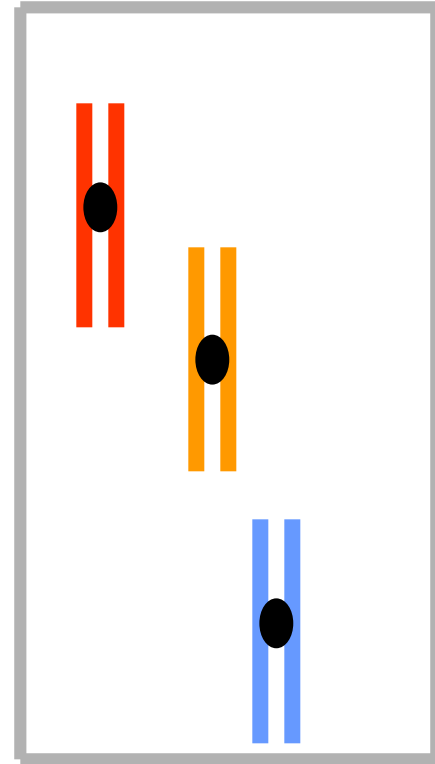


INTERPHASE-II

INTERPHASE - II

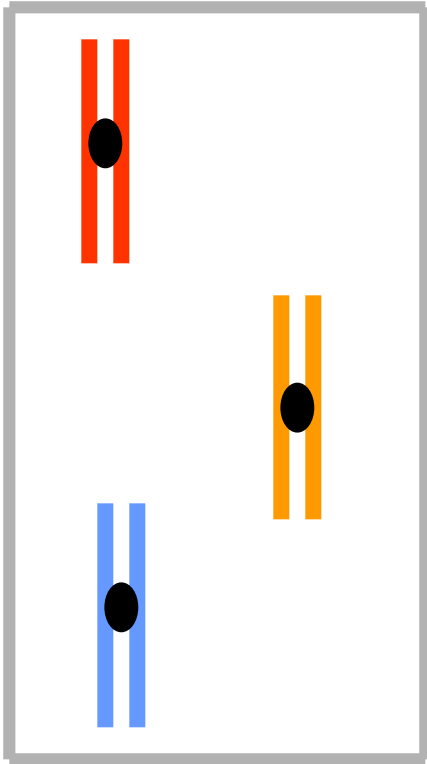


HAPLOID CELL

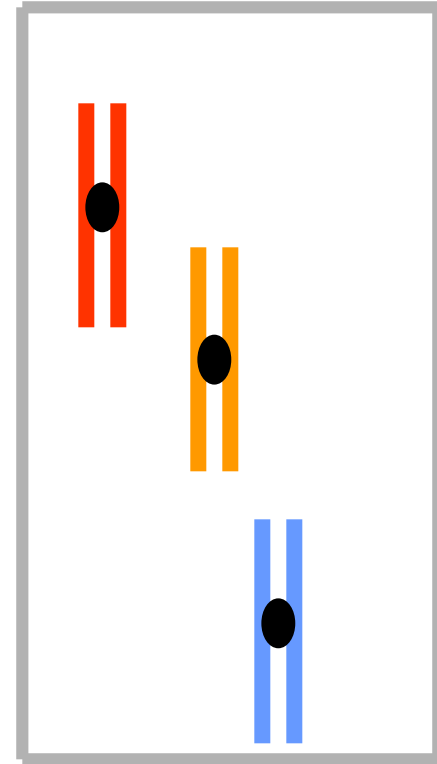


HAPLOID CELL

INTERPHASE - II



**NO CHROMOSOME
REPLICATION**



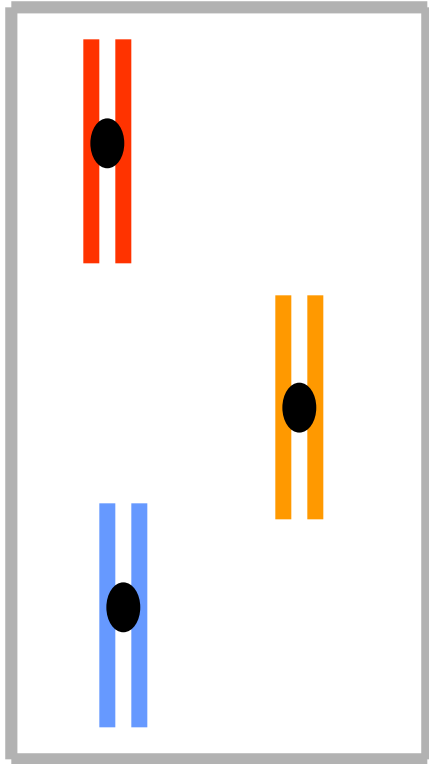
**NO CHROMOSOME
REPLICATION**

KARYOKINESIS-II

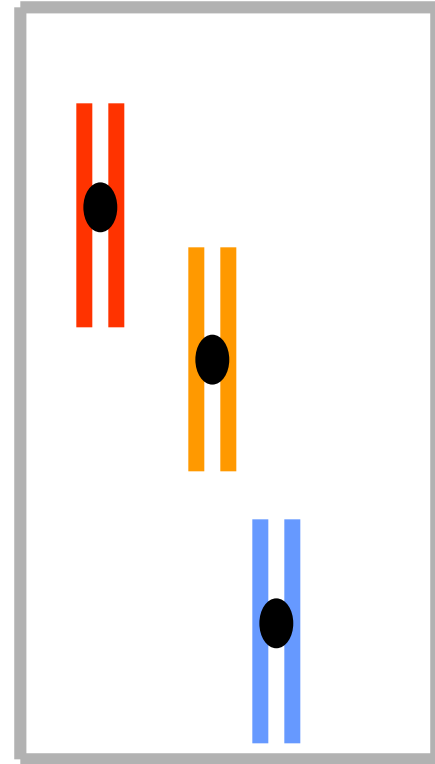


PROPHASE-II

PROPHASE - II



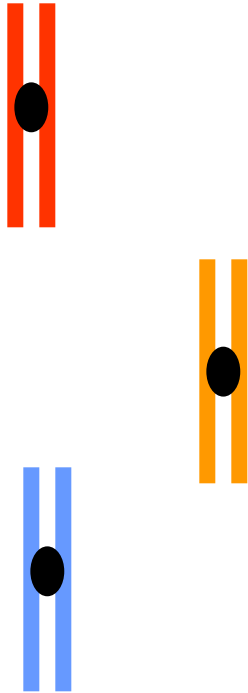
HAPLOID CELL



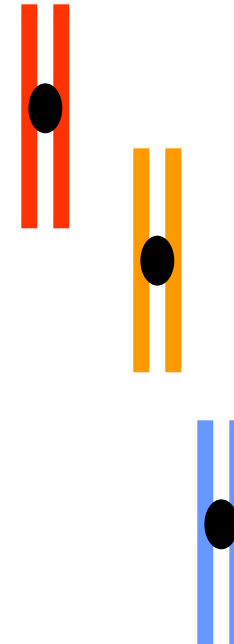
HAPLOID CELL

PROPHASE - II

T
AB



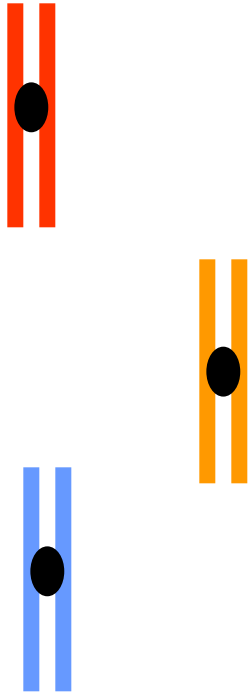
**NUCLEAR MEMBRANE
DISSIPATES**



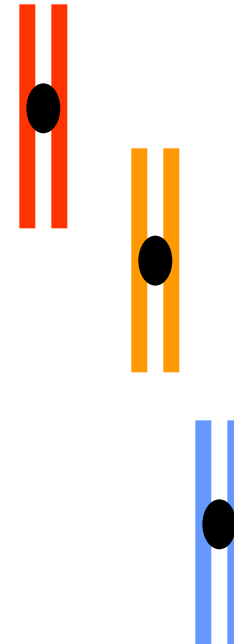
**NUCLEAR MEMBRANE
DISSIPATES**

PROPHASE - II

X
A

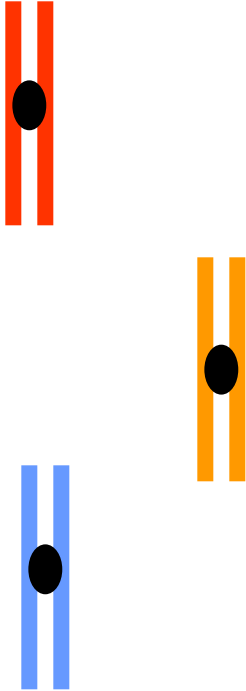


TETRADS ABSENT

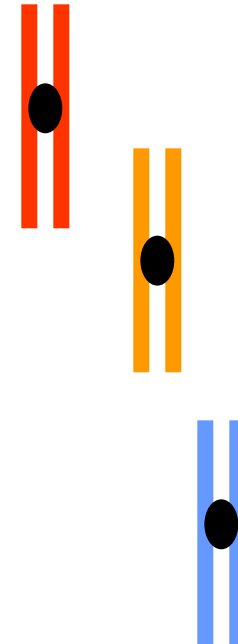


TETRADS ABSENT

PROPHASE - II



**CROSSING-OVER
ABSENT**

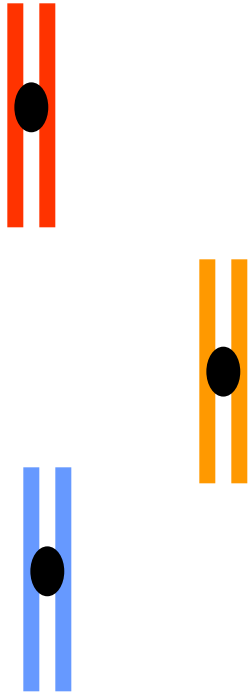


**CROSSING-OVER
ABSENT**

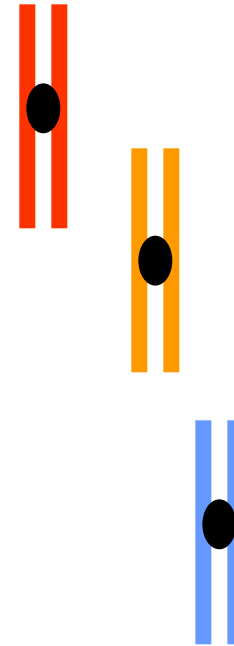


METAPHASE-II

METAPHASE - II



**CHROMOSOMES
TETRADS ABSENT**



**CHROMOSOMES
TETRADS ABSENT**

METAPHASE - II

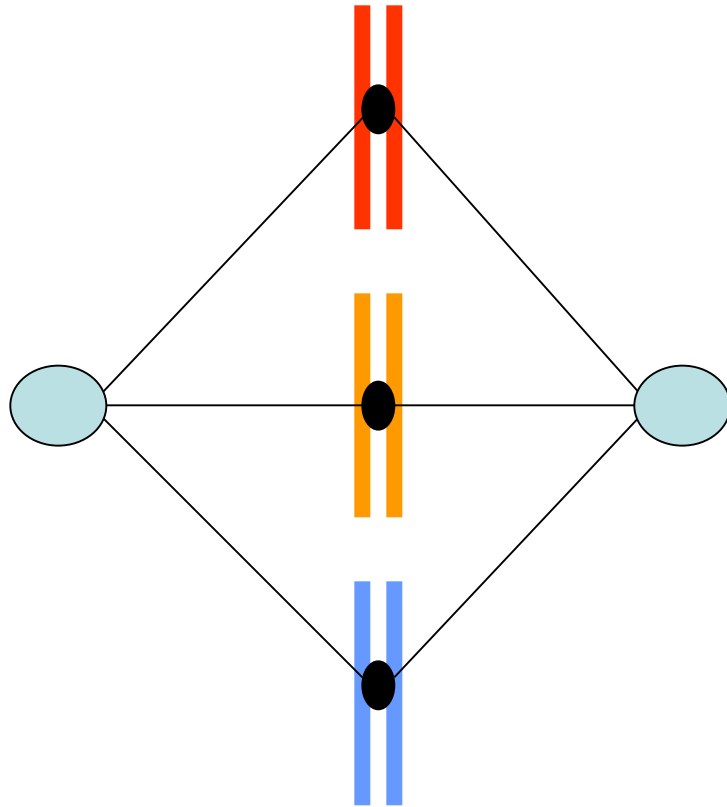


**EQUATORIAL
PLANE**

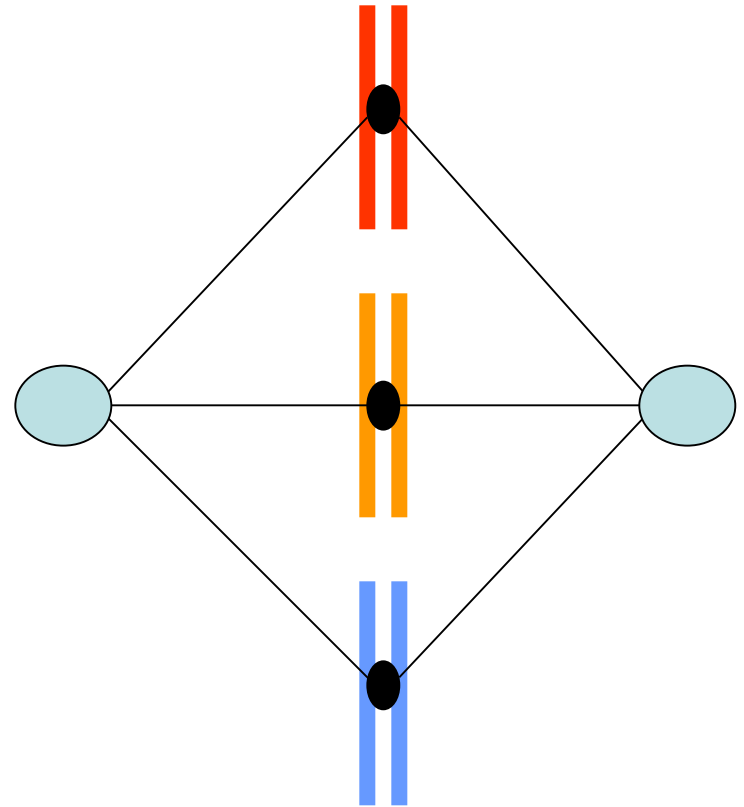


**EQUATORIAL
PLANE**

METAPHASE - II



**MICROTUBULE
SPINDLE COMPLEX**

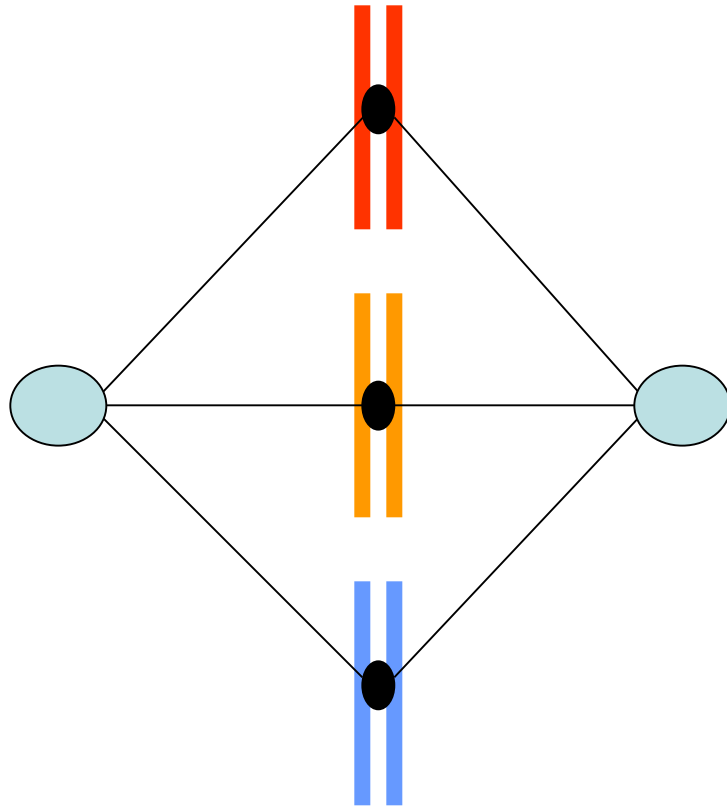


**MICROTUBULE
SPINDLE COMPLEX**

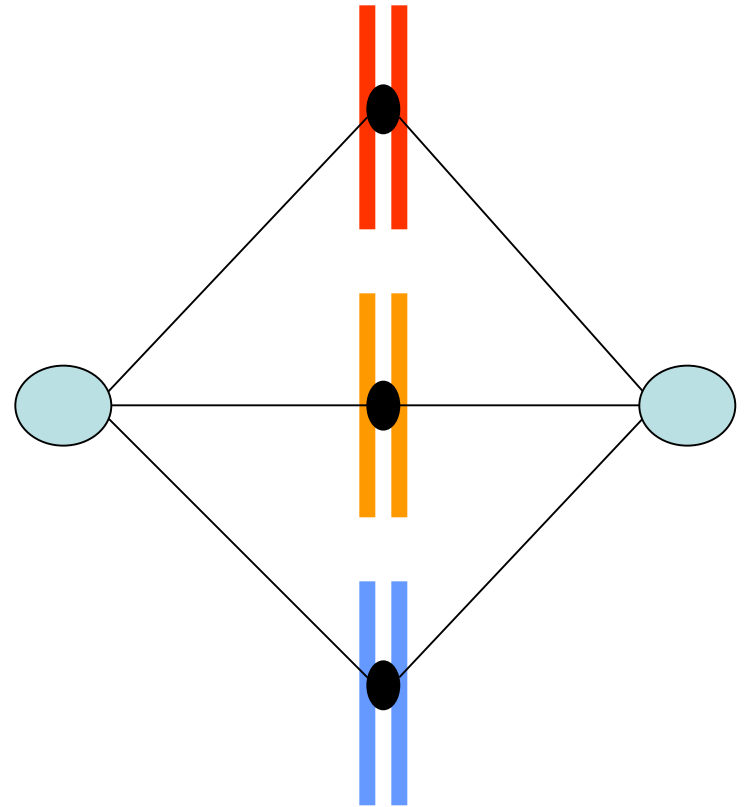


ANAPHASE-II

ANAPHASE - II

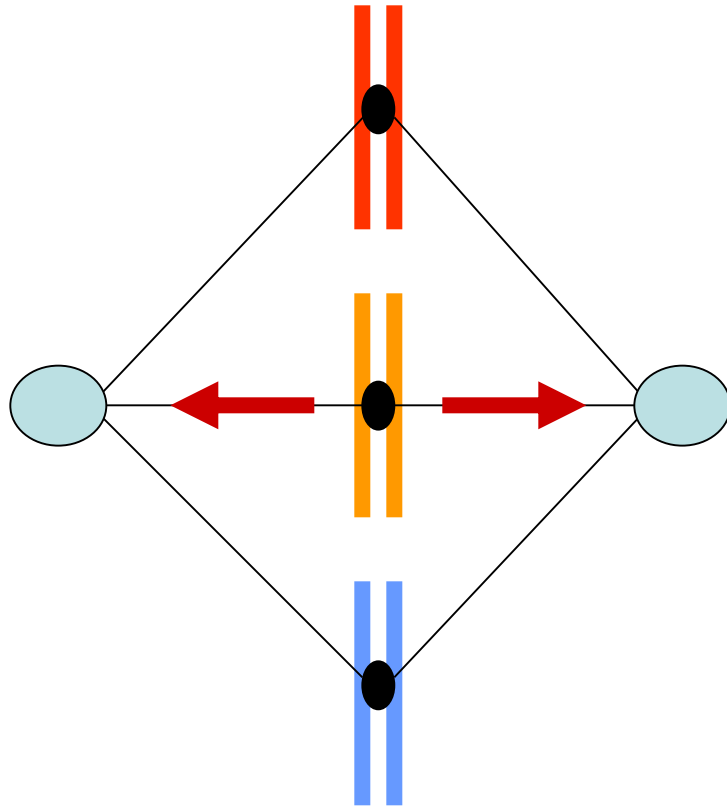


**MICROTUBULE
SPINDLE COMPLEX**

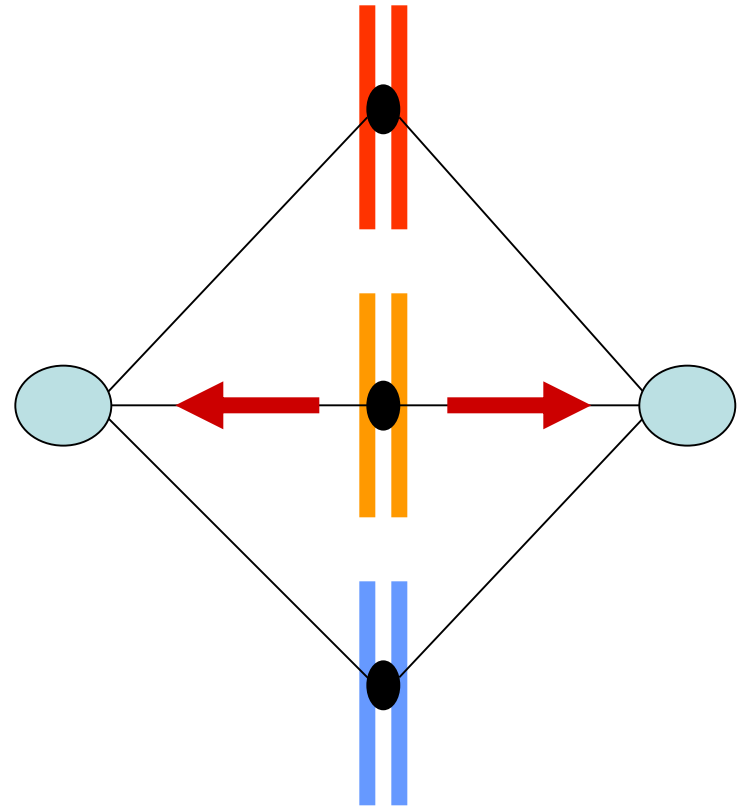


**MICROTUBULE
SPINDLE COMPLEX**

ANAPHASE - II

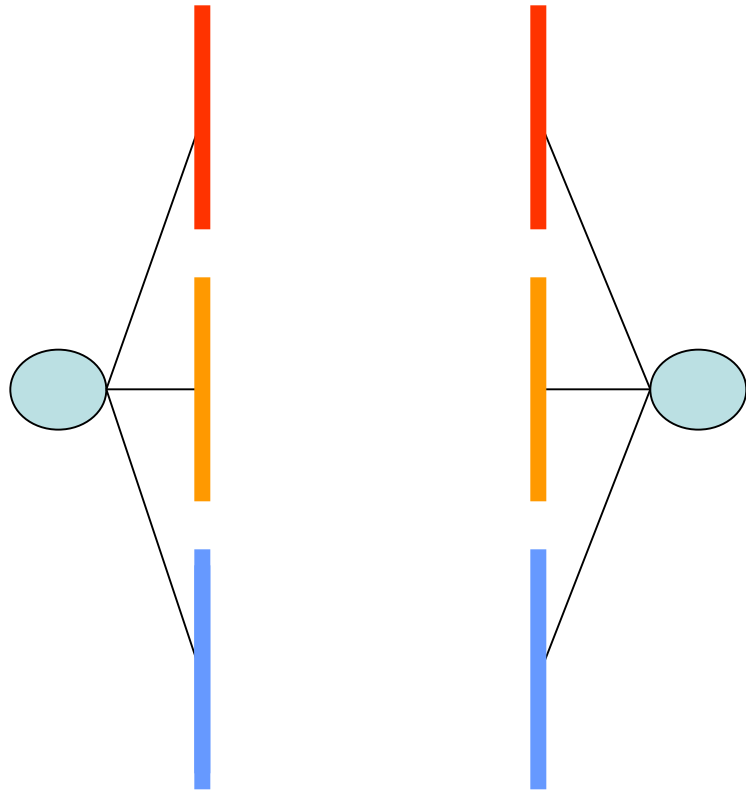


**SPINDLE COMPLEX
CONTRACTS**

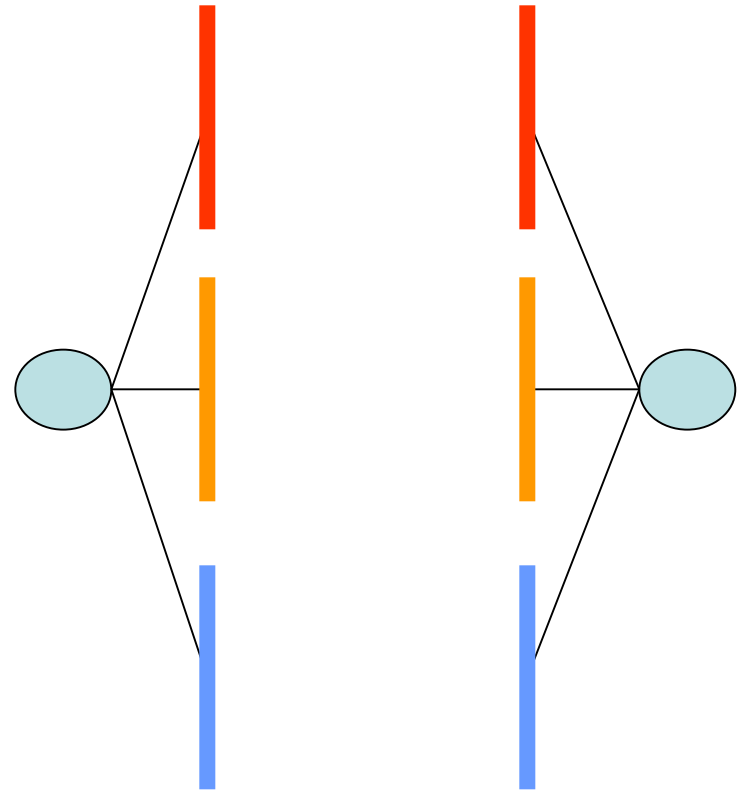


**SPINDLE COMPLEX
CONTRACTS**

ANAPHASE - II

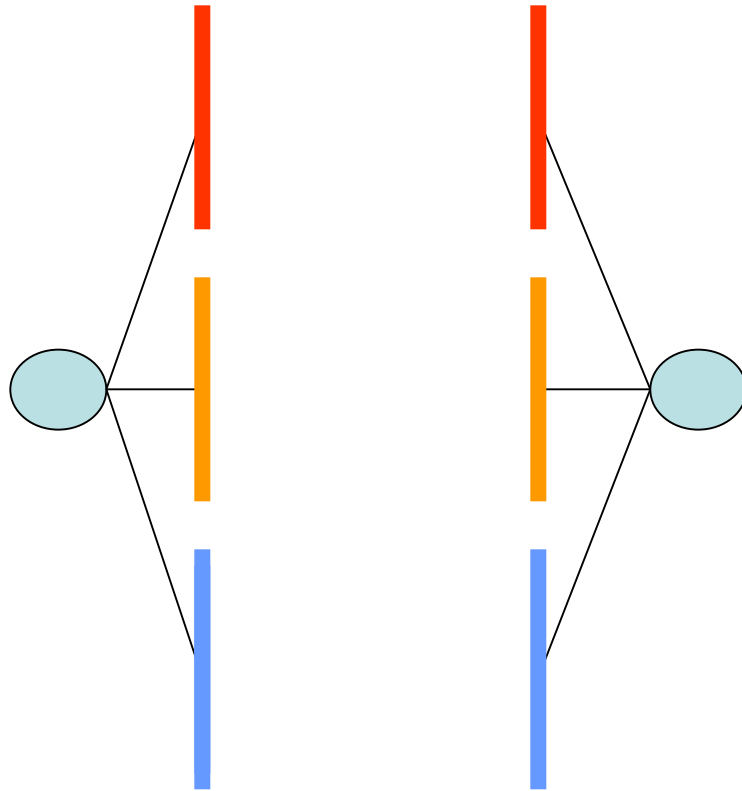


?
BREAK-DOWN

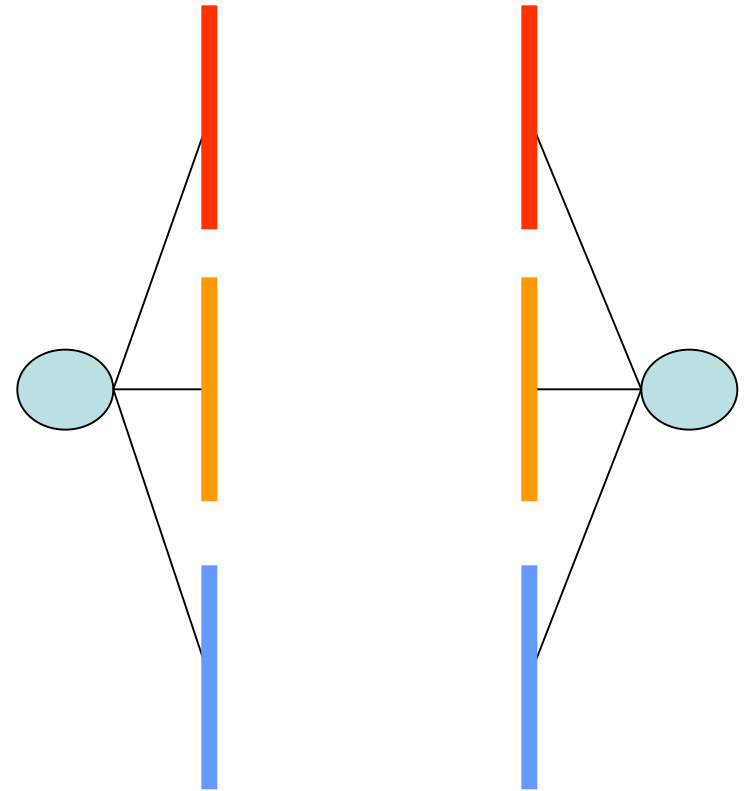


?
BREAK-DOWN

ANAPHASE - II

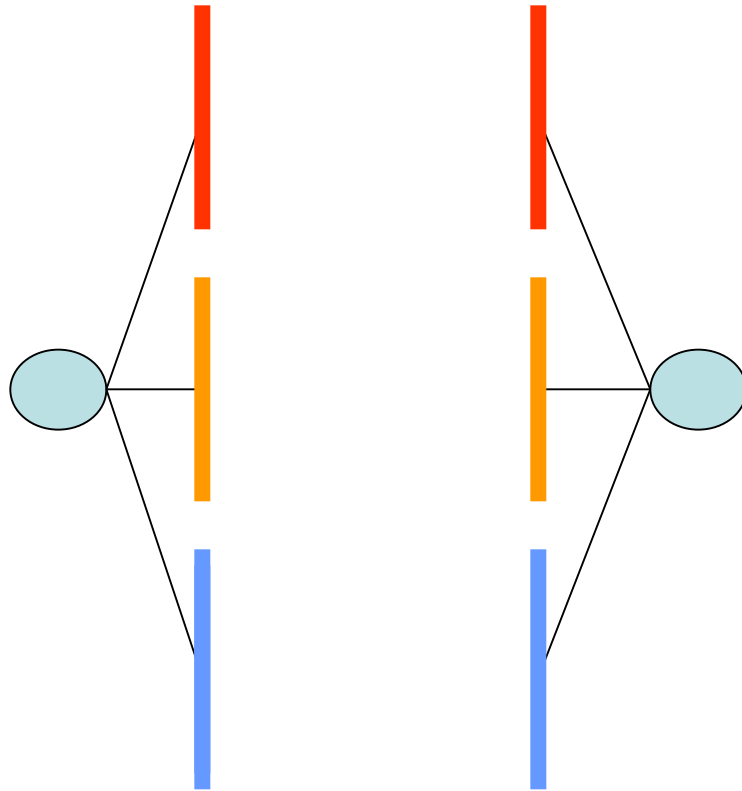


**CENTROMERES
BREAK-DOWN**

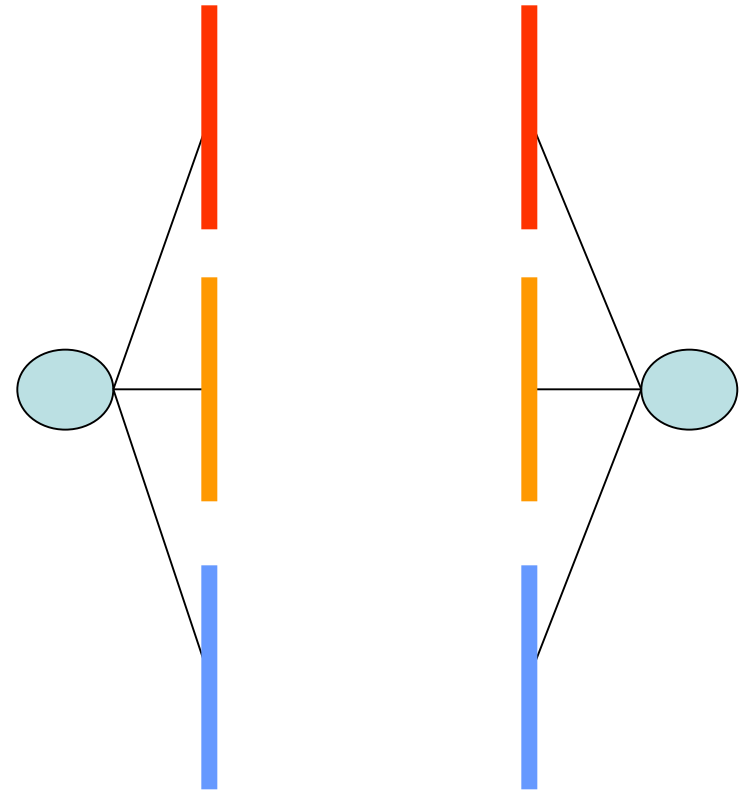


**CENTROMERES
BREAK-DOWN**

ANAPHASE - II

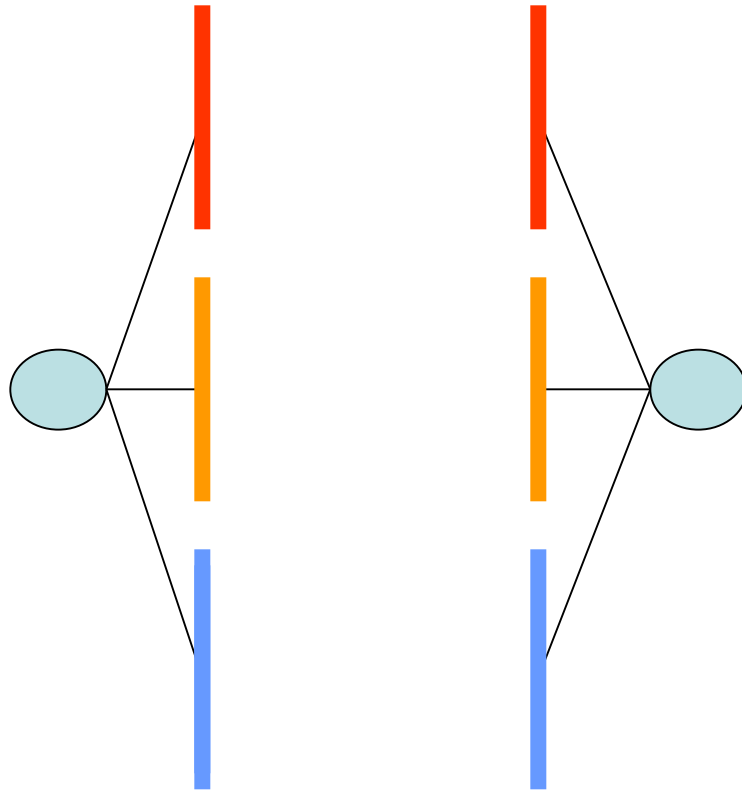


**CHROMATIDS
SEPARATE**

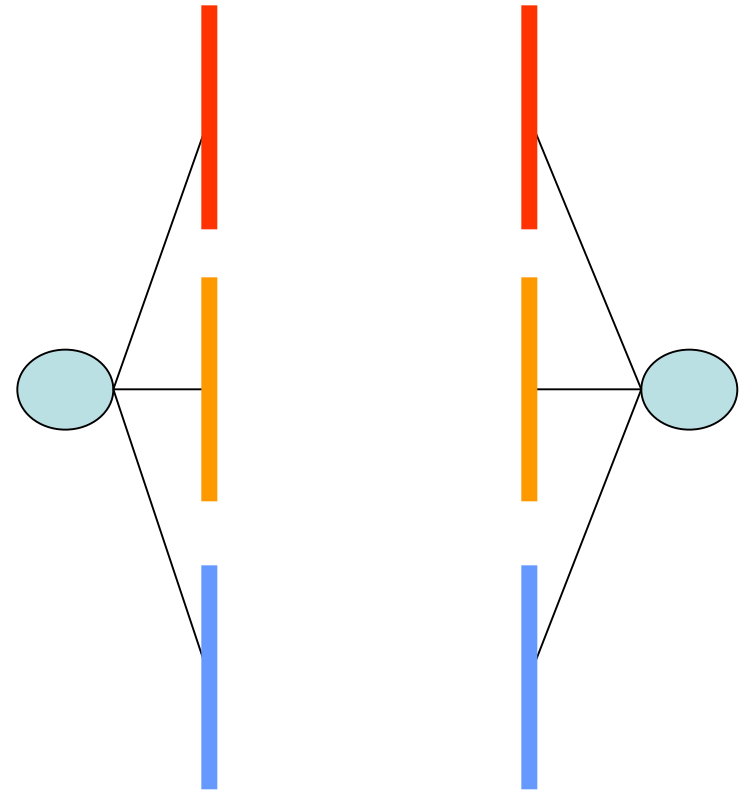


**CHROMATIDS
SEPARATE**

ANAPHASE - II

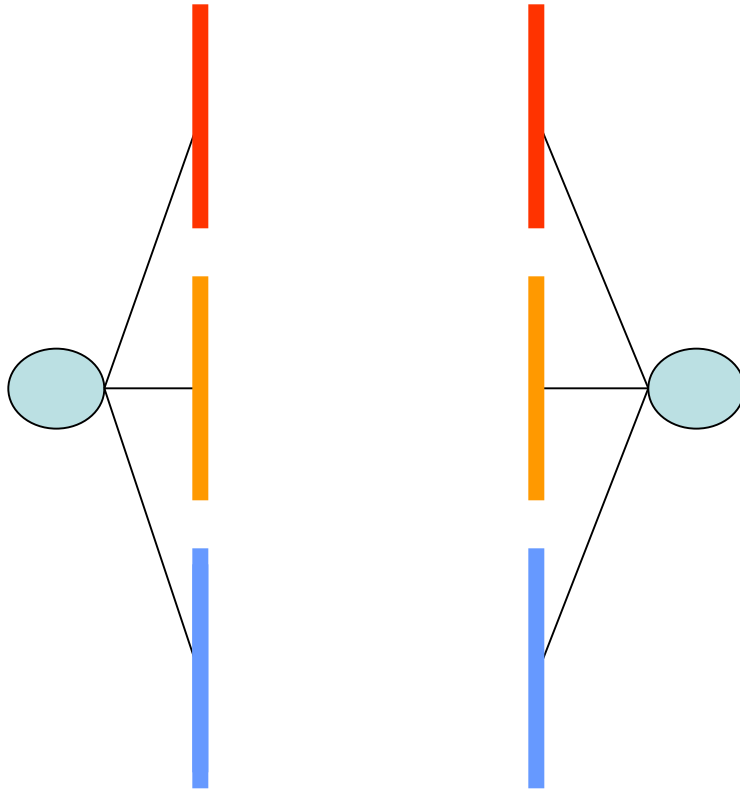


**DAUGHTER
CHROMOSOMES**

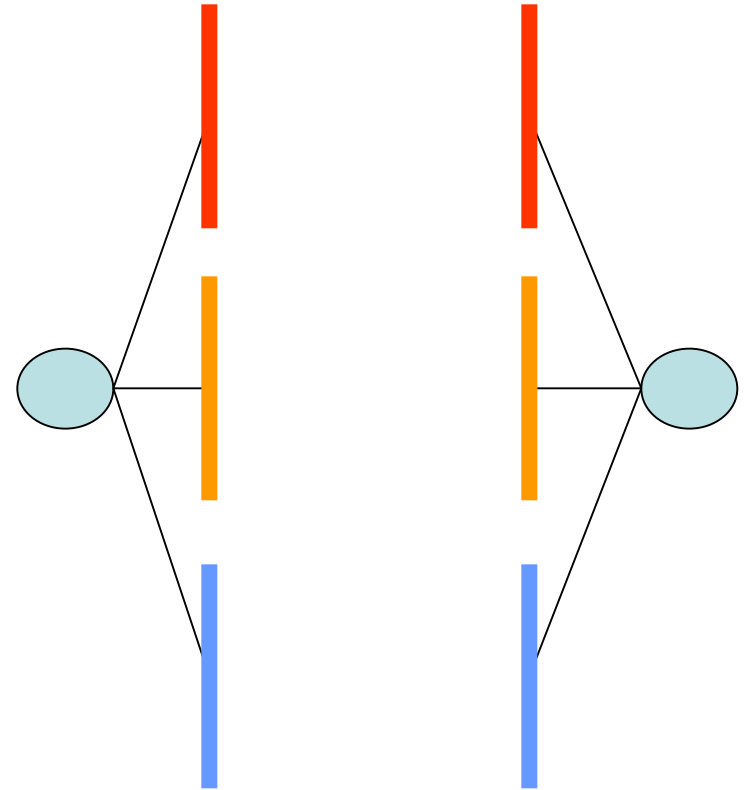


**DAUGHTER
CHROMOSOMES**

ANAPHASE - II



**CHROMOSOMES
OPPOSITE
POLES**

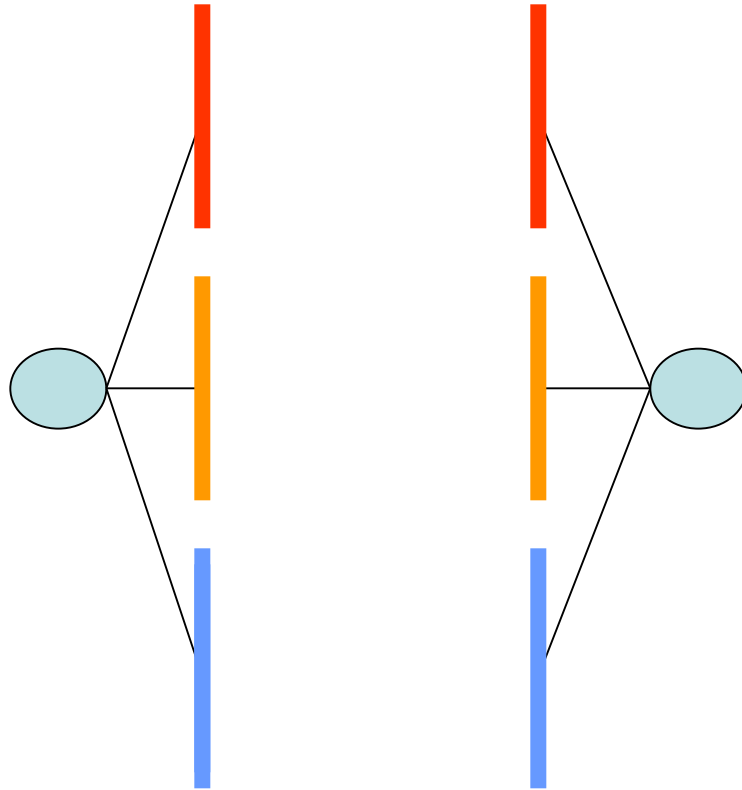


**CHROMOSOMES
OPPOSITE
POLES**

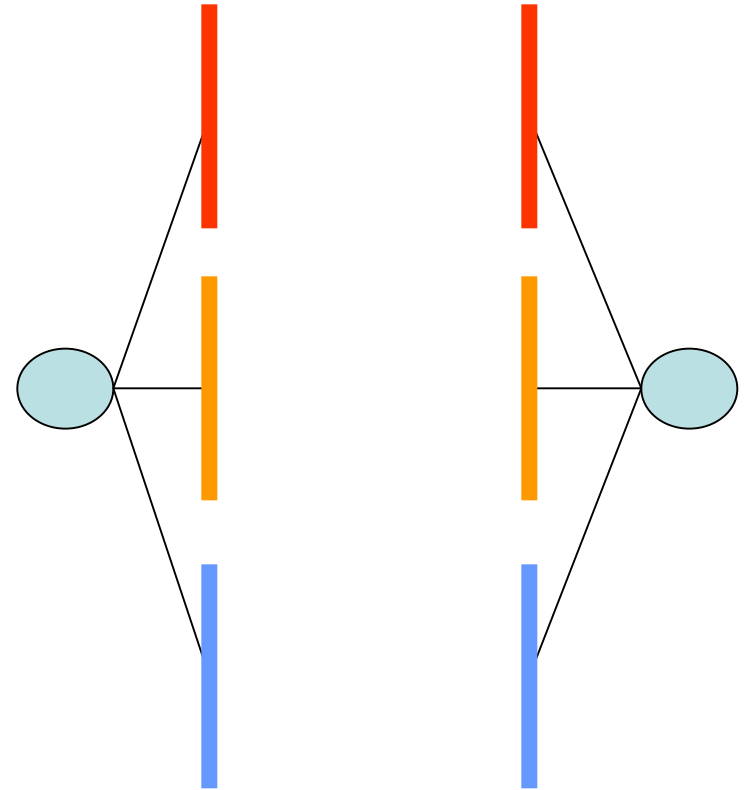


TELOPHASE-II

TELOPHASE - II

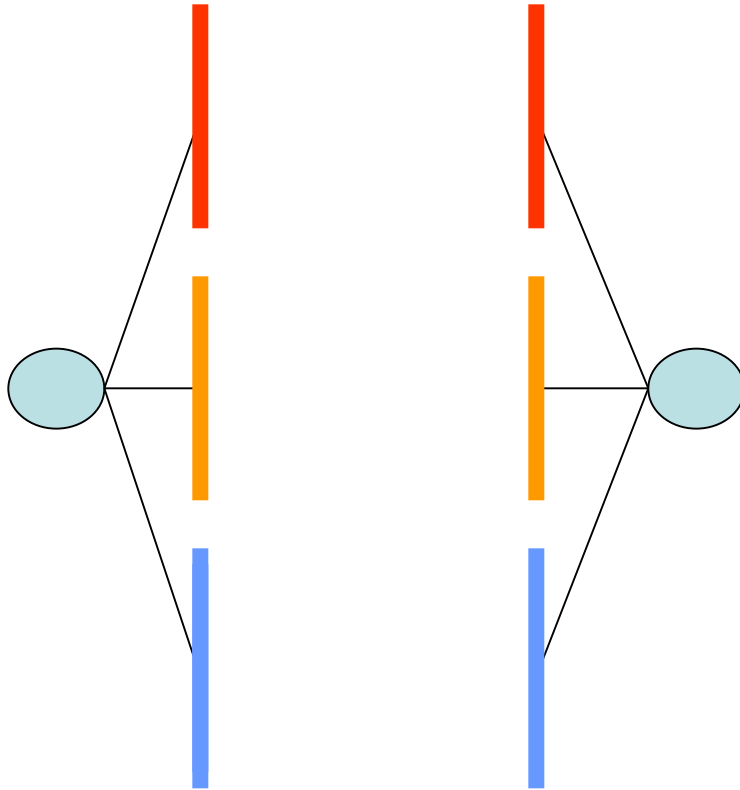


**IDENTICAL
TELOPHASE - I**

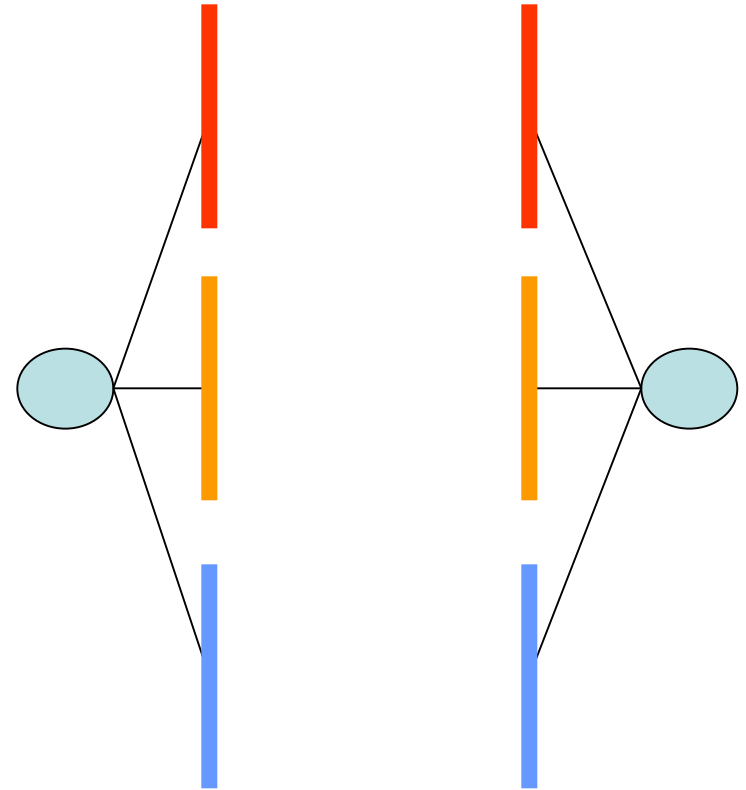


**IDENTICAL
TELOPHASE - I**

TELOPHASE - II

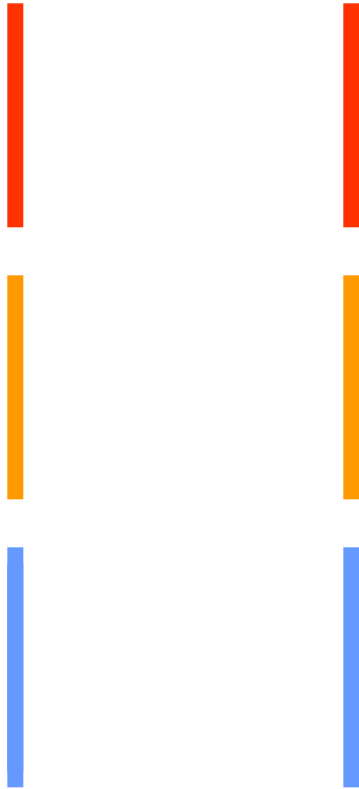


**CHROMOSOMES
OPPOSITE
POLES**

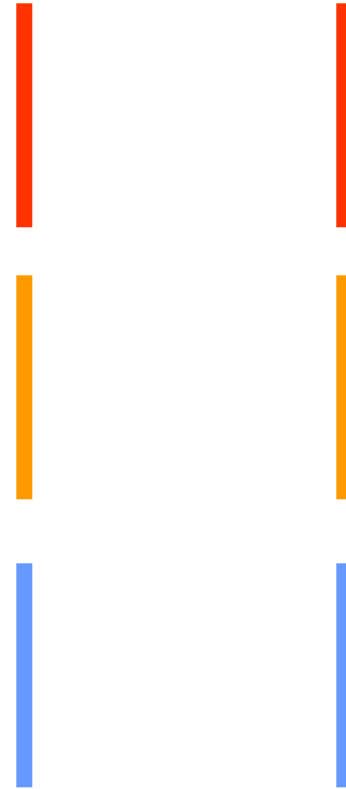


**CHROMOSOMES
OPPOSITE
POLES**

TELOPHASE - II

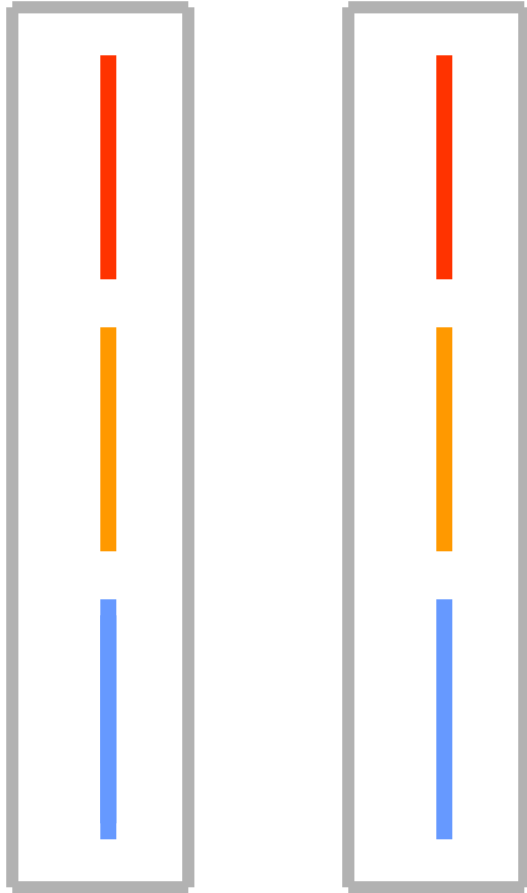


**SPINDLE COMPLEX
DISSIPATES**

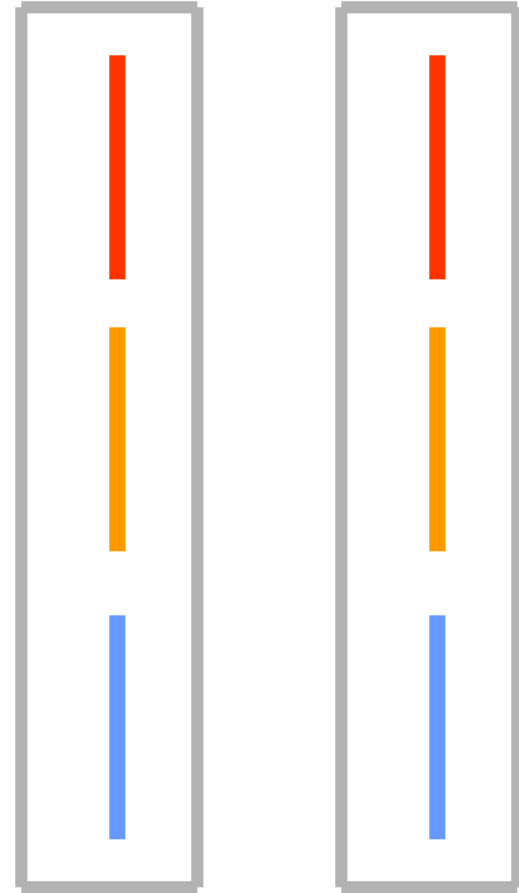


**SPINDLE COMPLEX
DISSIPATES**

TELOPHASE - II

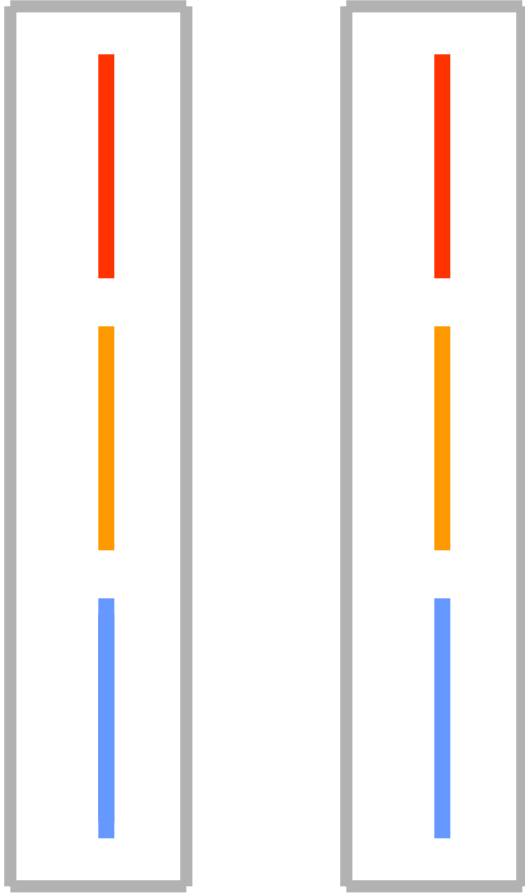


**NUCLEAR MEMBRANE
FORMS**

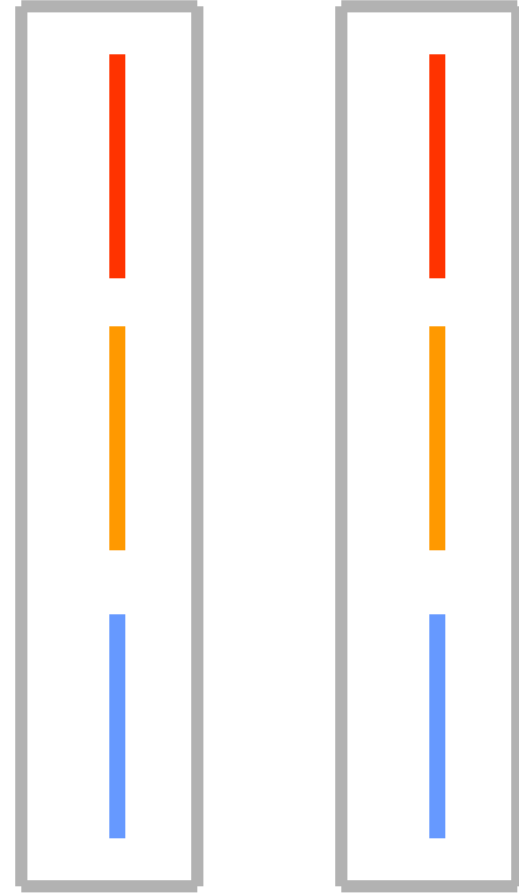


**NUCLEAR MEMBRANE
FORMS**

TELOPHASE - II



**2 DAUGHTER
NUCLEI**



**2 DAUGHTER
NUCLEI**



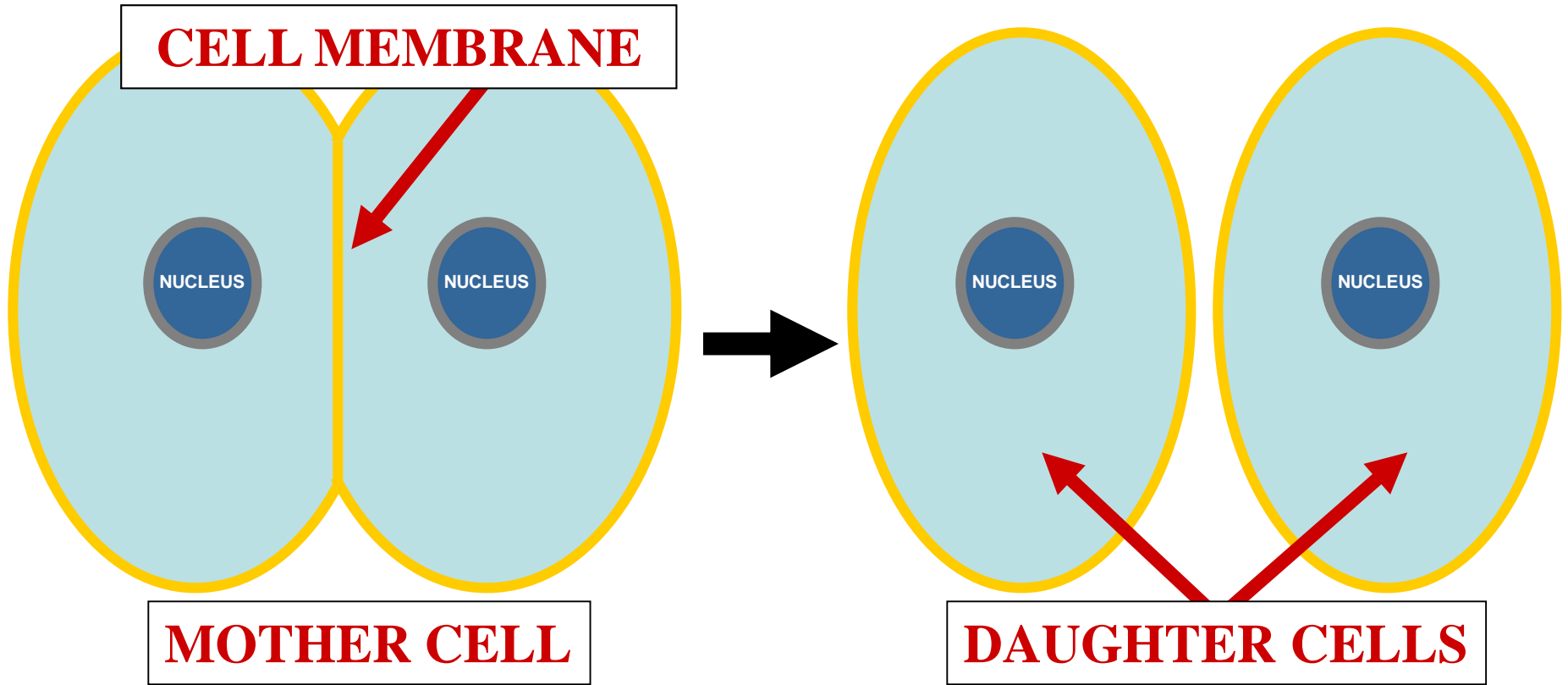
CYTOKINESIS-II



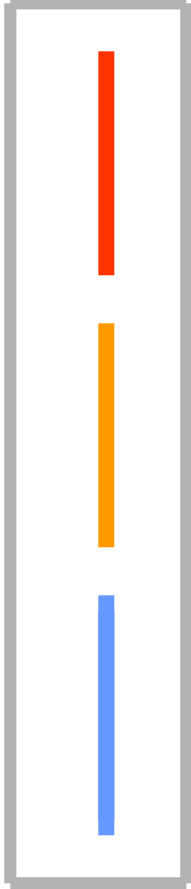
ANIMAL CYTOKINESIS



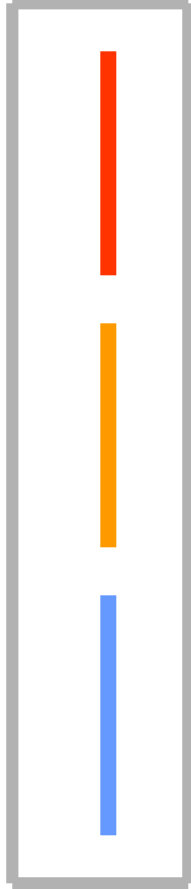
CYTOKINESIS FURROWING



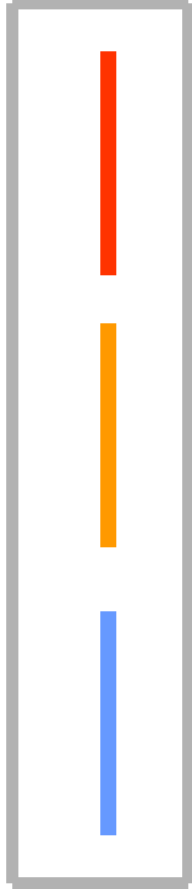
CYTOKINESIS FURROWING



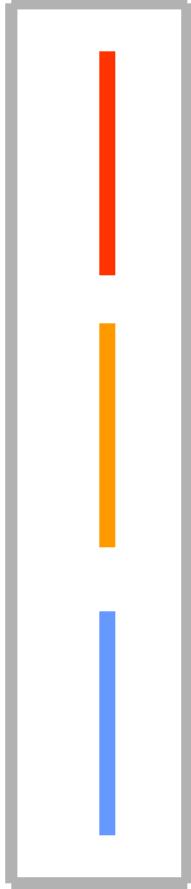
CELL



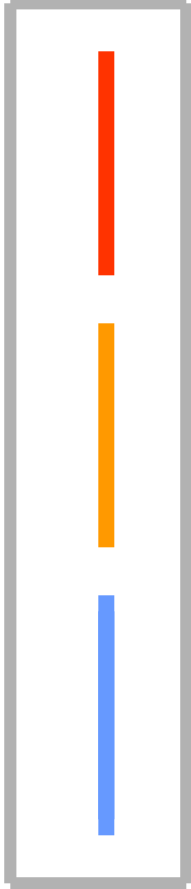
CELL



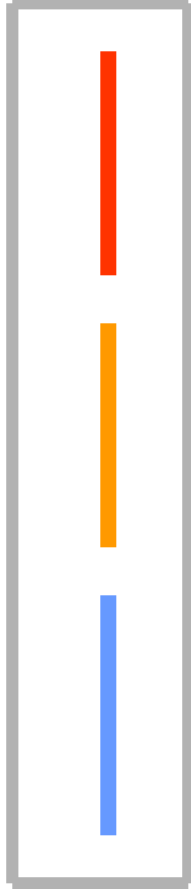
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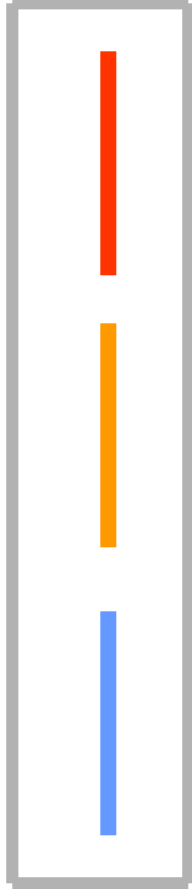
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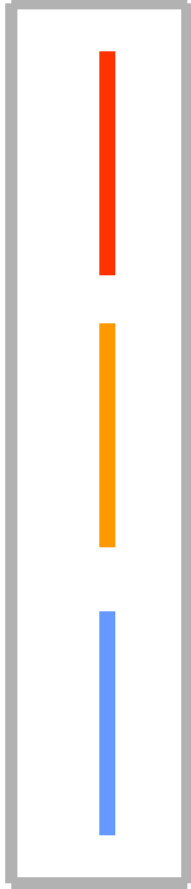
GAMETE



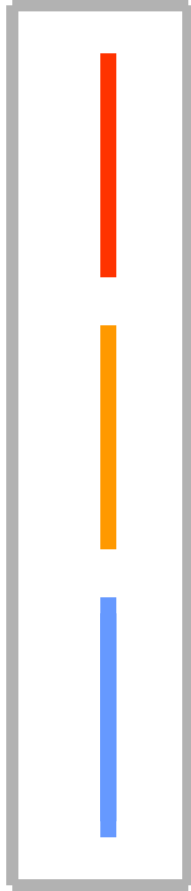
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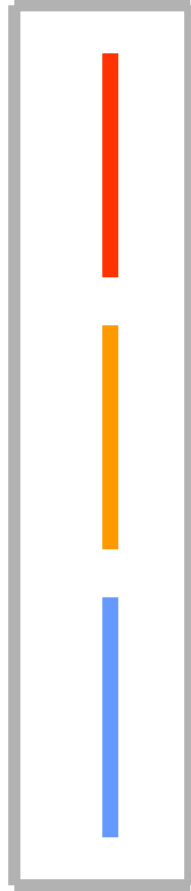
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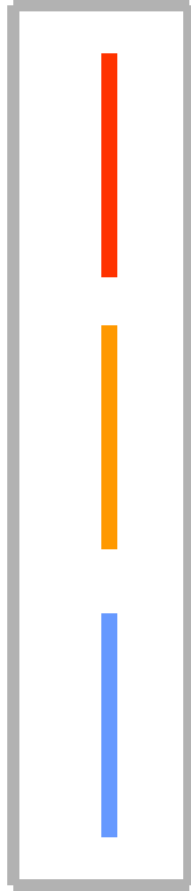
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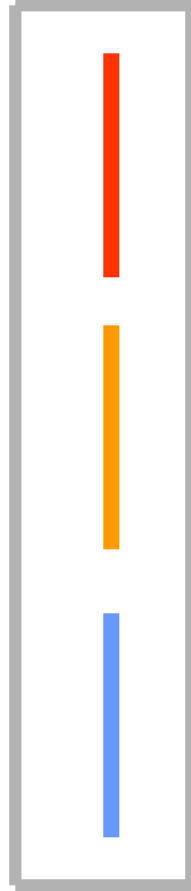
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1N GAMETE



1N GAMETE



1N GAMETE



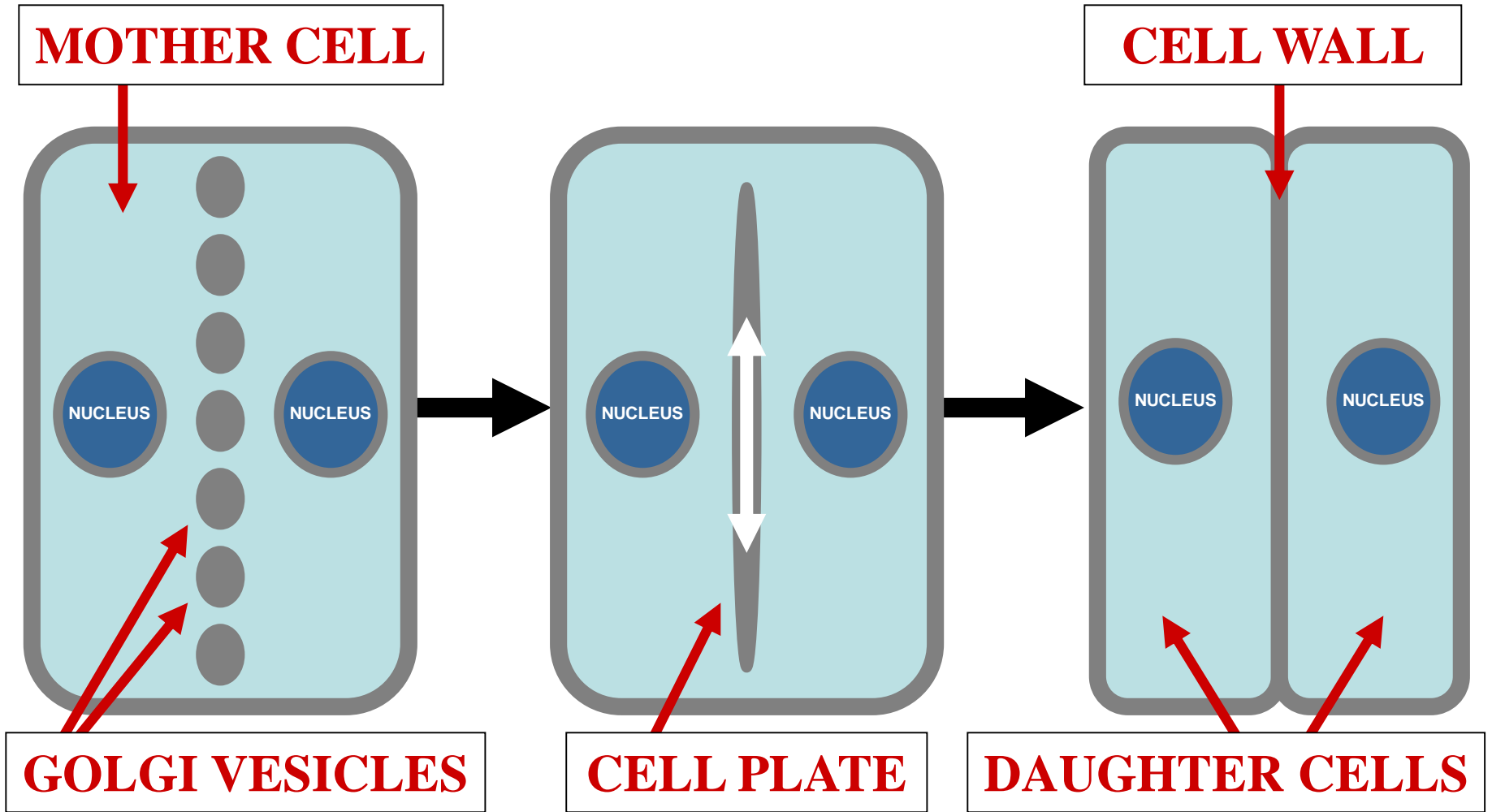


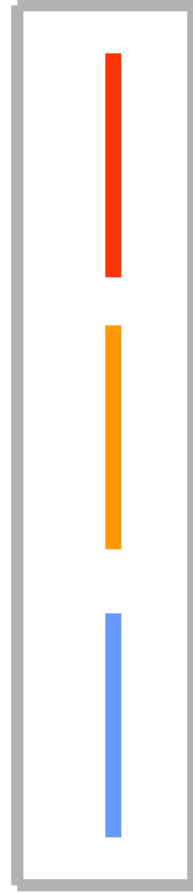
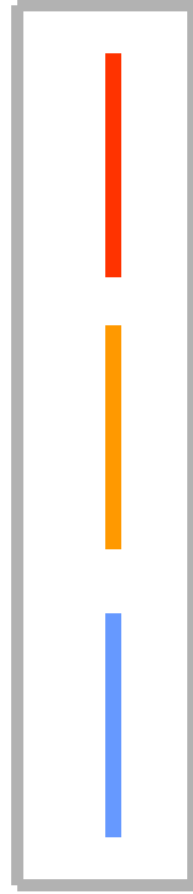
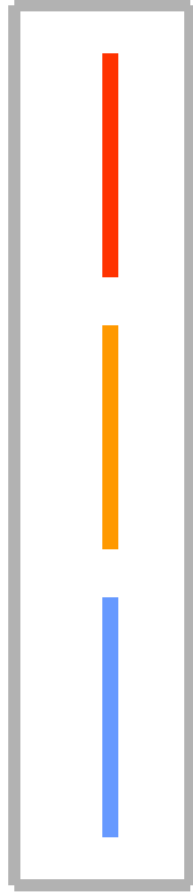
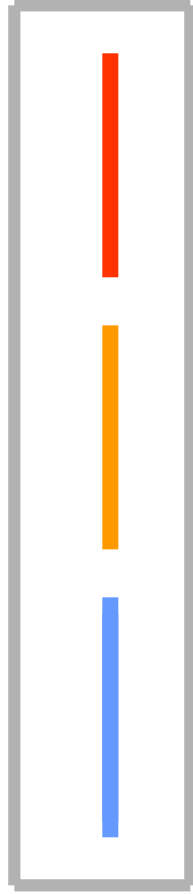
PLANT CYTOKINESIS



CYTOKINESIS

CELL PLATE



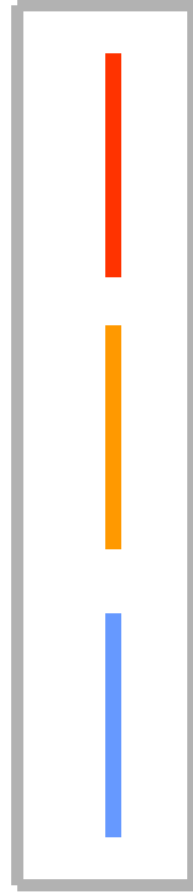
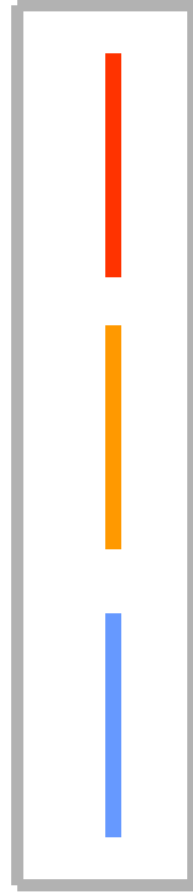
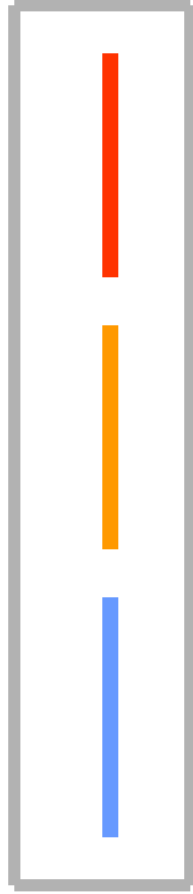
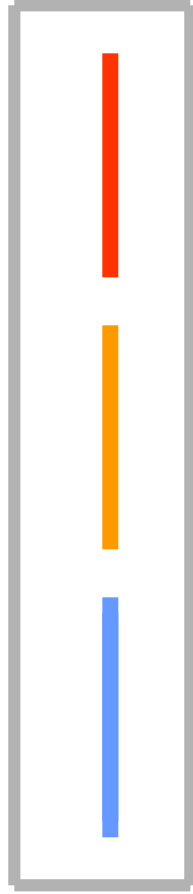


CELL

CELL

CELL

CELL

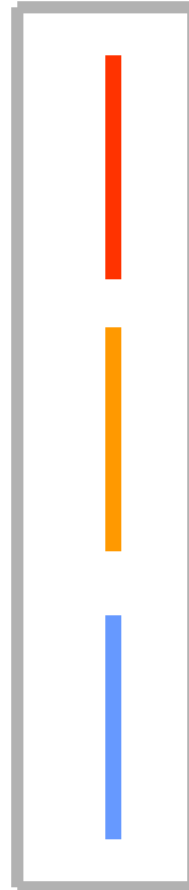
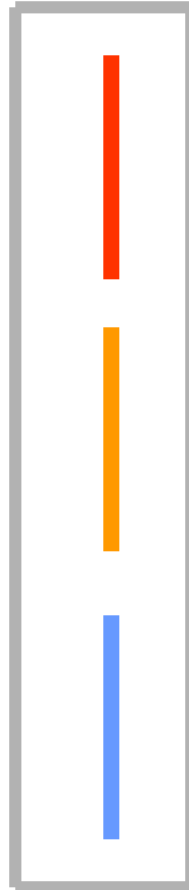
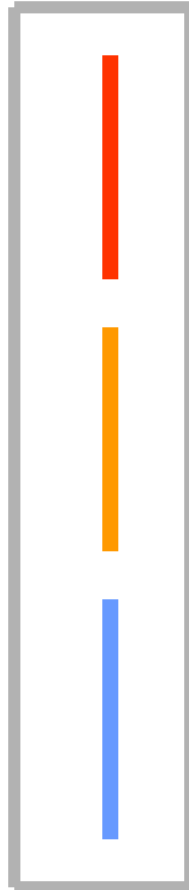
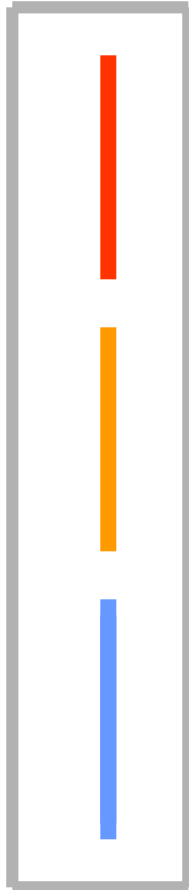


SPORE

SPORE

SPORE

SPORE



1N SPORE

1N SPORE

1N SPORE

1N SPORE



LC

GERM CELL CYCLE SUMMARY



PLANT LIFE CYCLE

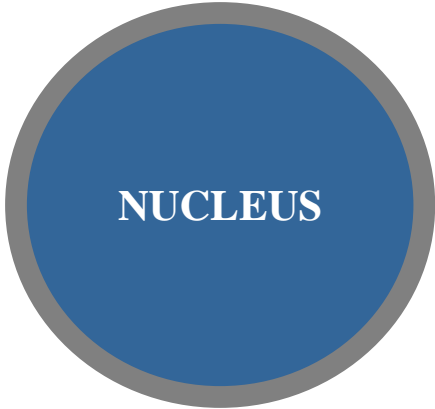




NUCLEUS

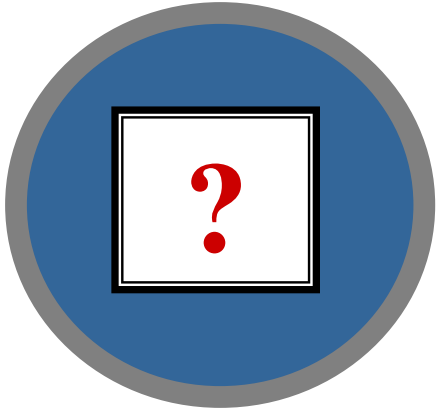
?

GERM CELL



SPOROCYTE

GERM CELL



SPOROCYTE

GERM CELL



**2 HOMOLOGOUS
CHROMOSOME SETS/CELL**

SPOROCYTE

GERM CELL



**2 HOMOLOGOUS
CHROMOSOME SETS/CELL**

SPOROCYTE

GERM CELL

