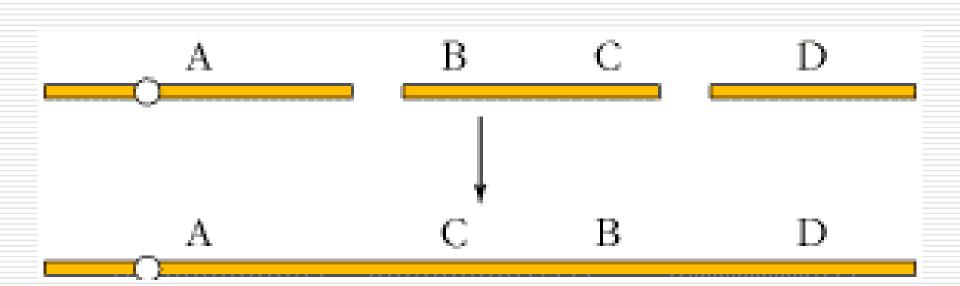
# 第三节

# 倒位(Inversion)

倒位:染色体在自然或处理后发生断裂, 个别染色体节段发生位置上的前后倒置, 而后重复愈合。



#### 一、类别

## 臂内倒位(paracentric)

臂间倒位(pericentric)

ABCDE

 $^{\circ}$  A D C B E

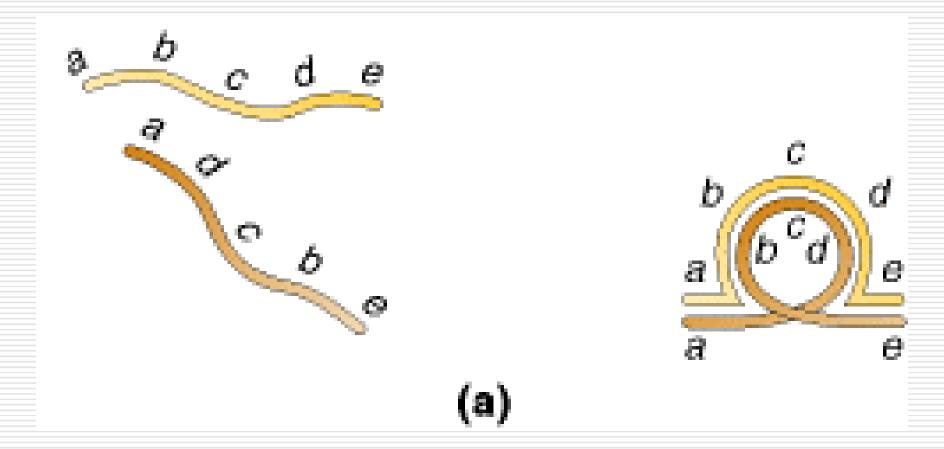
日本 八二 /六1 /스、

臂内倒位

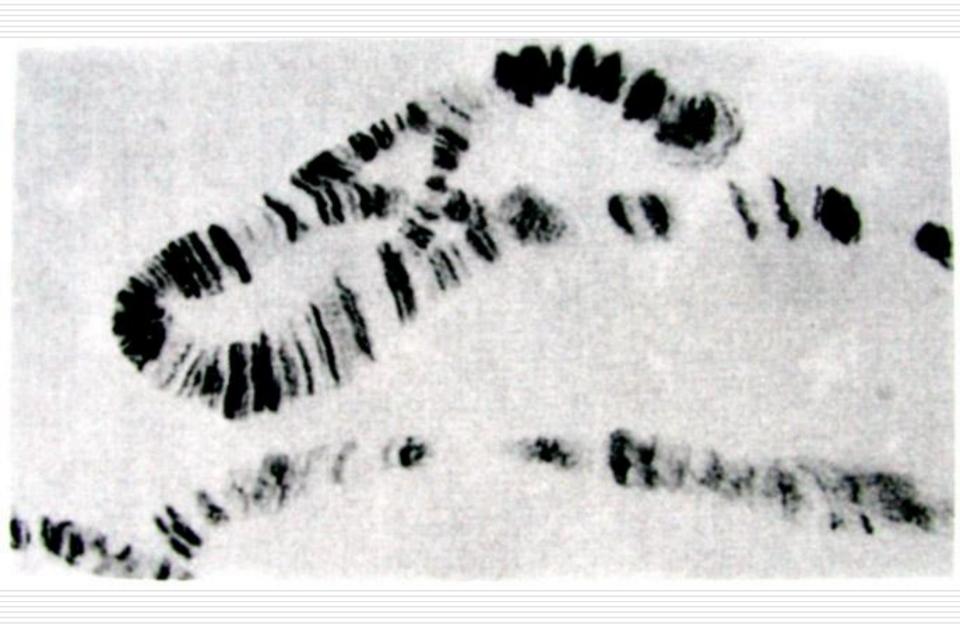
臂间倒位

## 二、细胞学鉴定

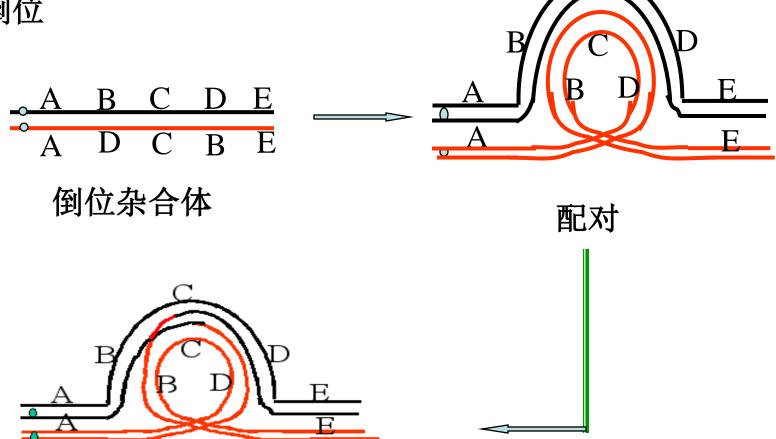


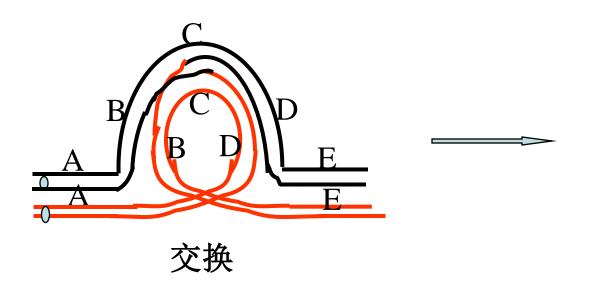


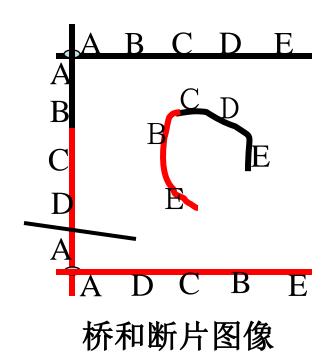
#### 多线染色体倒位环光镜照片



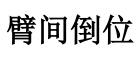
#### 臂内倒位

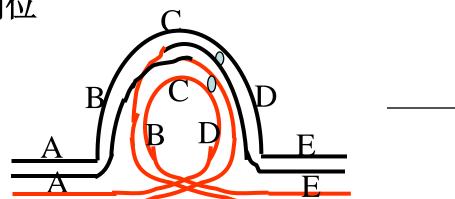


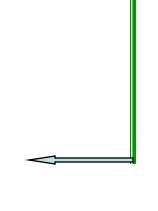




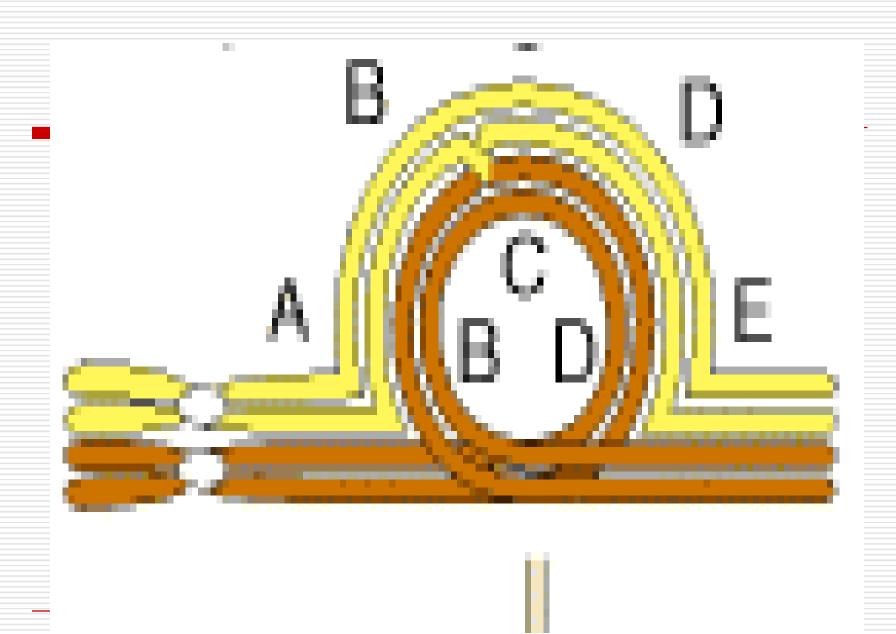


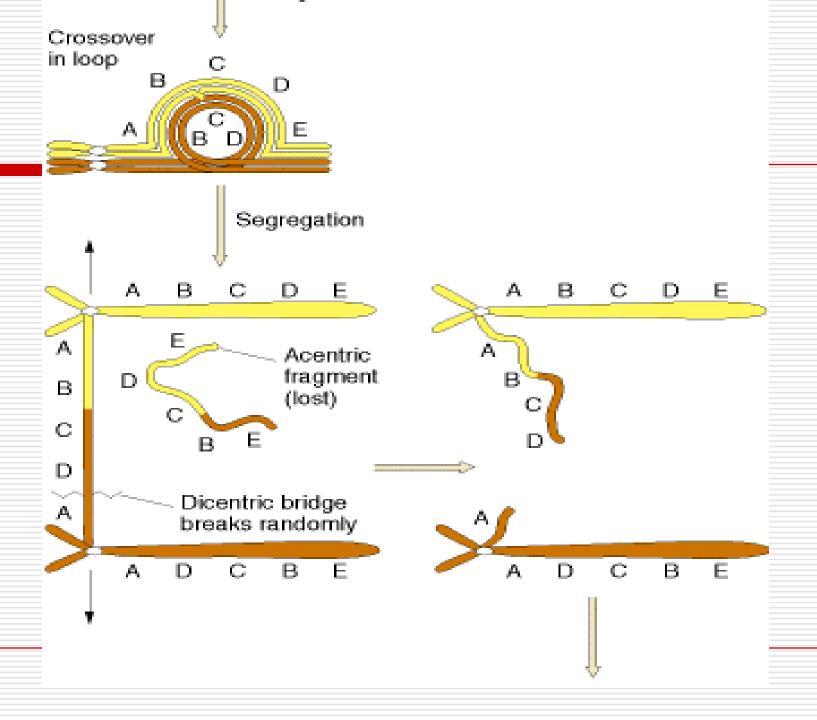


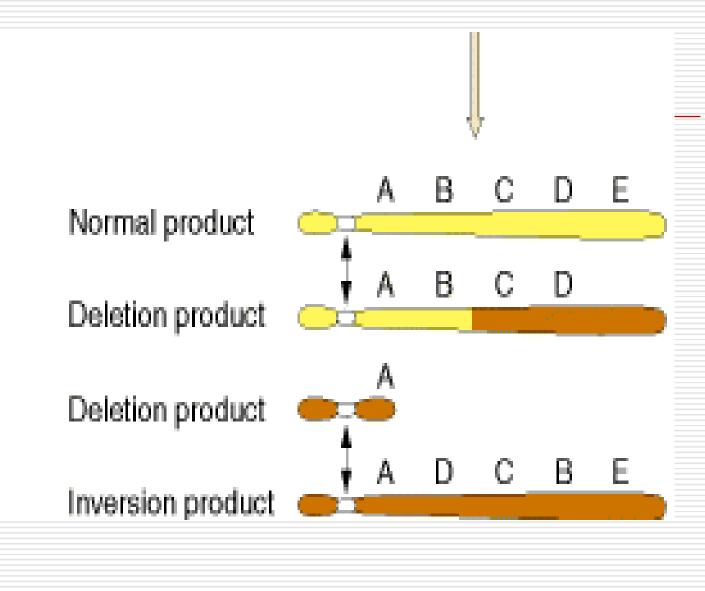












### 三、倒位的遗传学效应

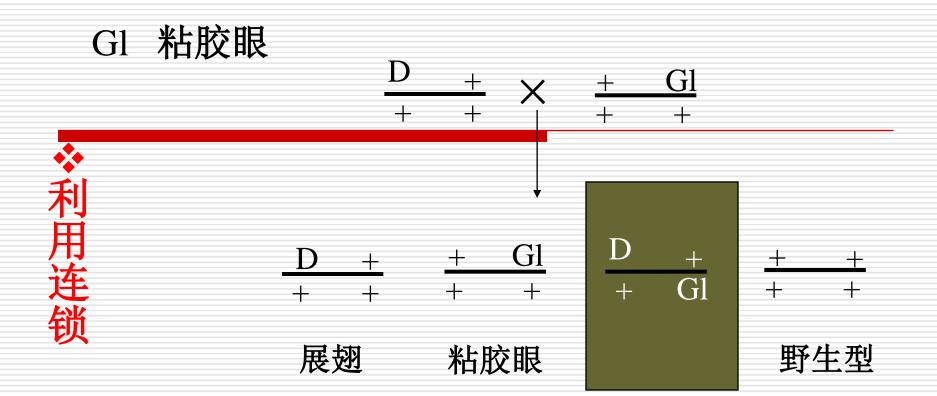
■交换的抑制作用

■部分配子不育性

■推动物种进化形成的因素之一

### 四、倒位的应用

例: D 展翅基因



永久以杂和状态存在,同时保存两个致死基因的品系称为永久杂种或平衡致死

品系



$$\frac{\mathbf{C}\mathbf{y}}{+}$$
  $\mathbf{L}$   $\times$   $\frac{\mathbf{C}\mathbf{y}}{+}$   $\mathbf{L}$ 

