

Figure 6.1


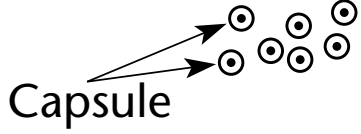


	Bacterial type	Effect in mouse	Bacteria recovered
A	Live type R 	Nonpathogenic	None
B	Live type S 	Pathogenic	Live type S
C	Heat-killed type S 	Nonpathogenic	None
D	Mixture of live type R and heat-killed type S 	Pathogenic	Live type S

Figure 6.2

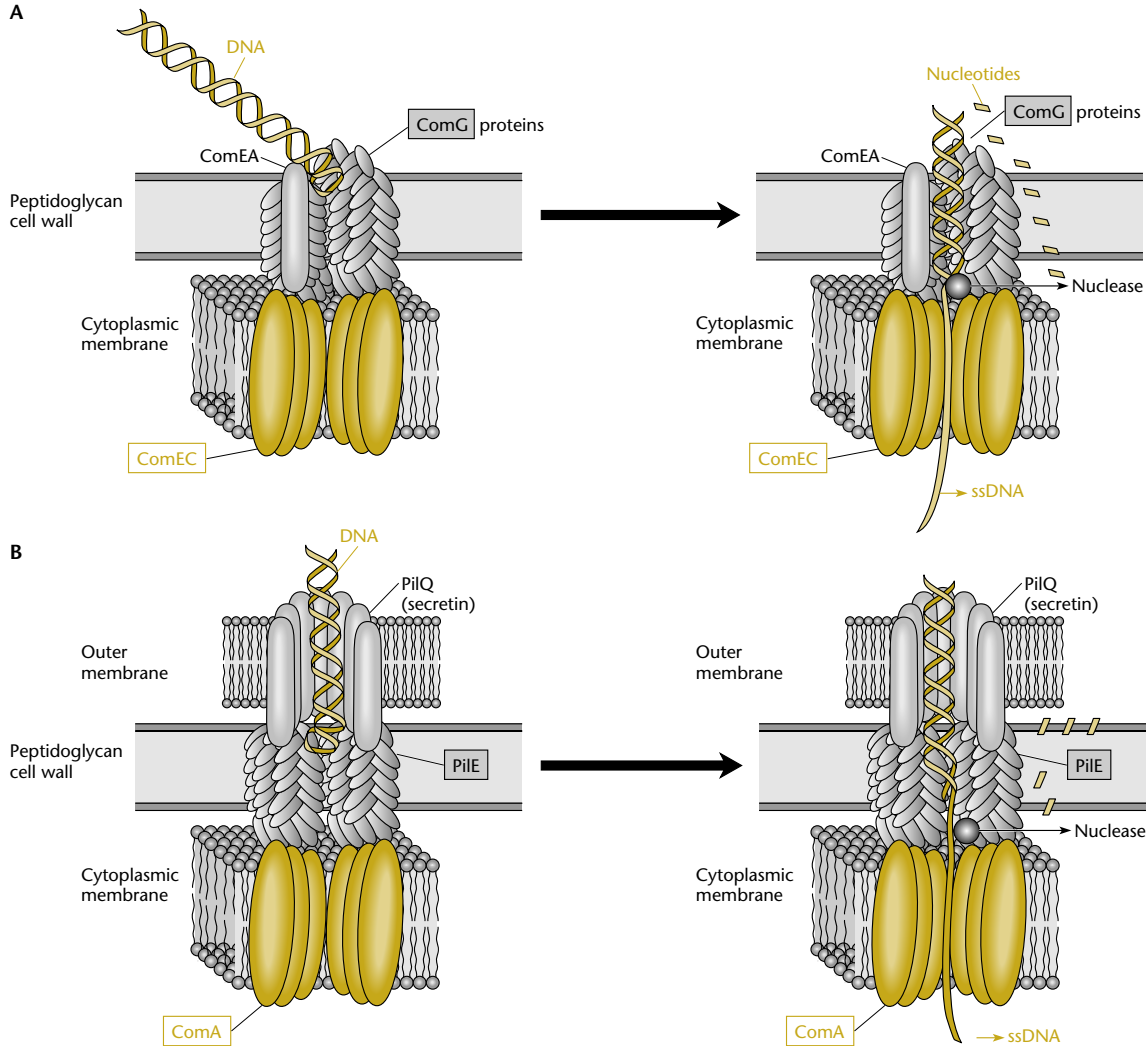


Figure 6.3

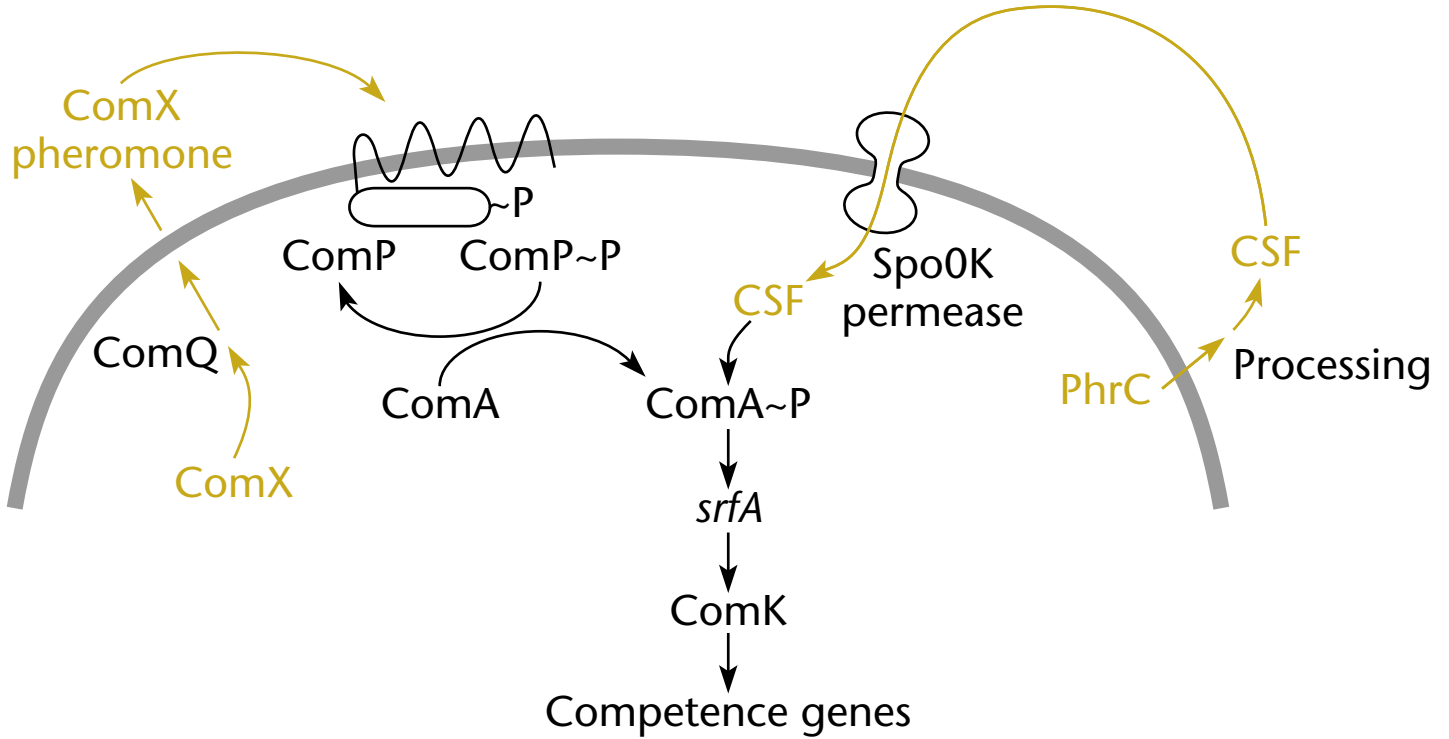


Figure 6.4

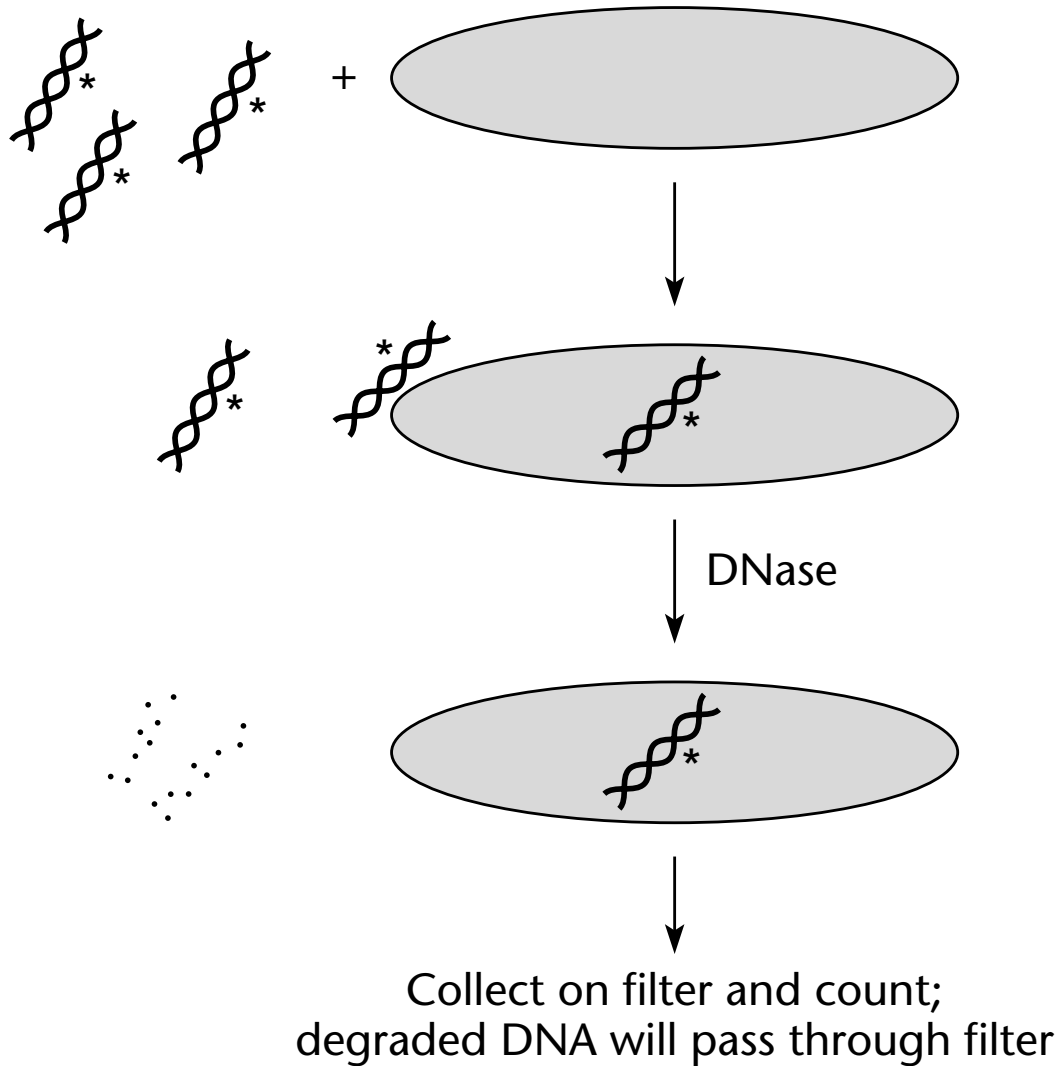


Figure 6.5

Haemophilus influenzae 5' AAGTGCGGTCA 3'
Neisseria gonorrhoeae 5' GCCGTCTCAA 3'

Figure 6.6

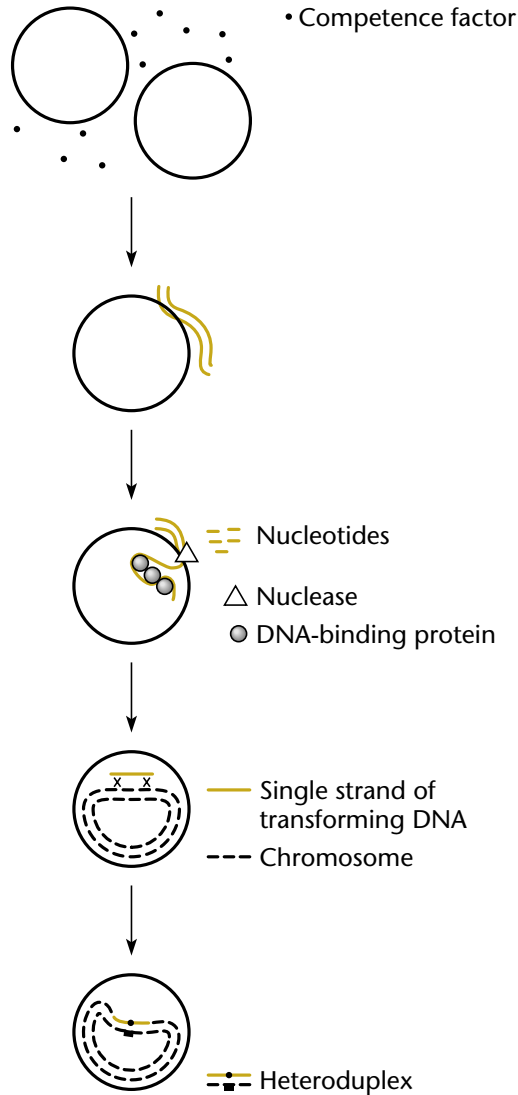


Figure 6.7

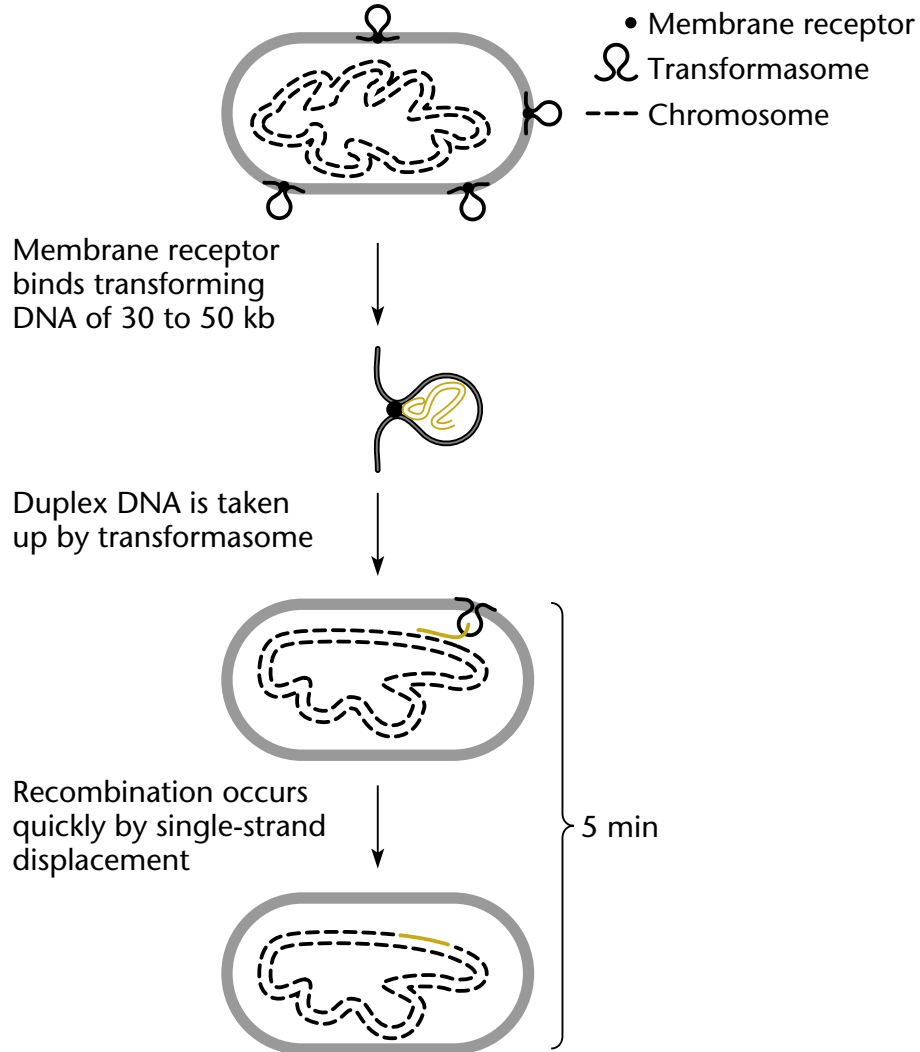


Figure 6.8

Step 1
Mix Arg⁺ DNA
and recipient
cells



Time 1

Step 2
Treat mixture
with DNase at
various times



DNA is
extracellular
and so is
degraded



Step 3
Extract DNA
and mix with
Arg⁻ recipients

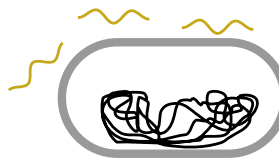
Step 4
Select Arg⁺
transformants

No Arg⁺
transformants

Time 2



Intracellular DNA
is single stranded
and so cannot bind
to recipient



No Arg⁺
transformants

Time 3



Intracellular DNA has
recombined with
chromosome and so
is double stranded



Double-stranded
DNA can transform
recipient



Arg⁺ transformant

Figure 6.9

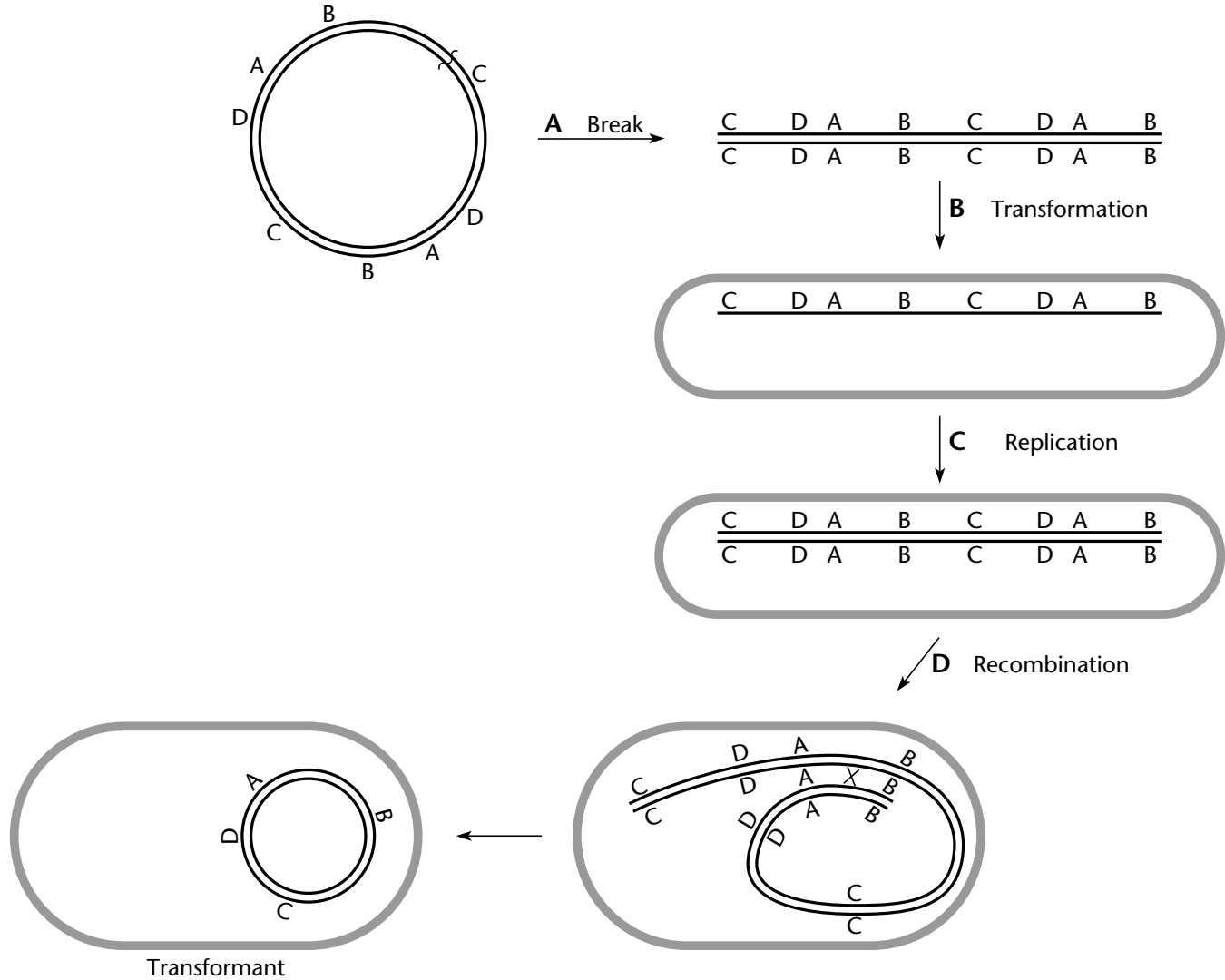


Figure 6.10

