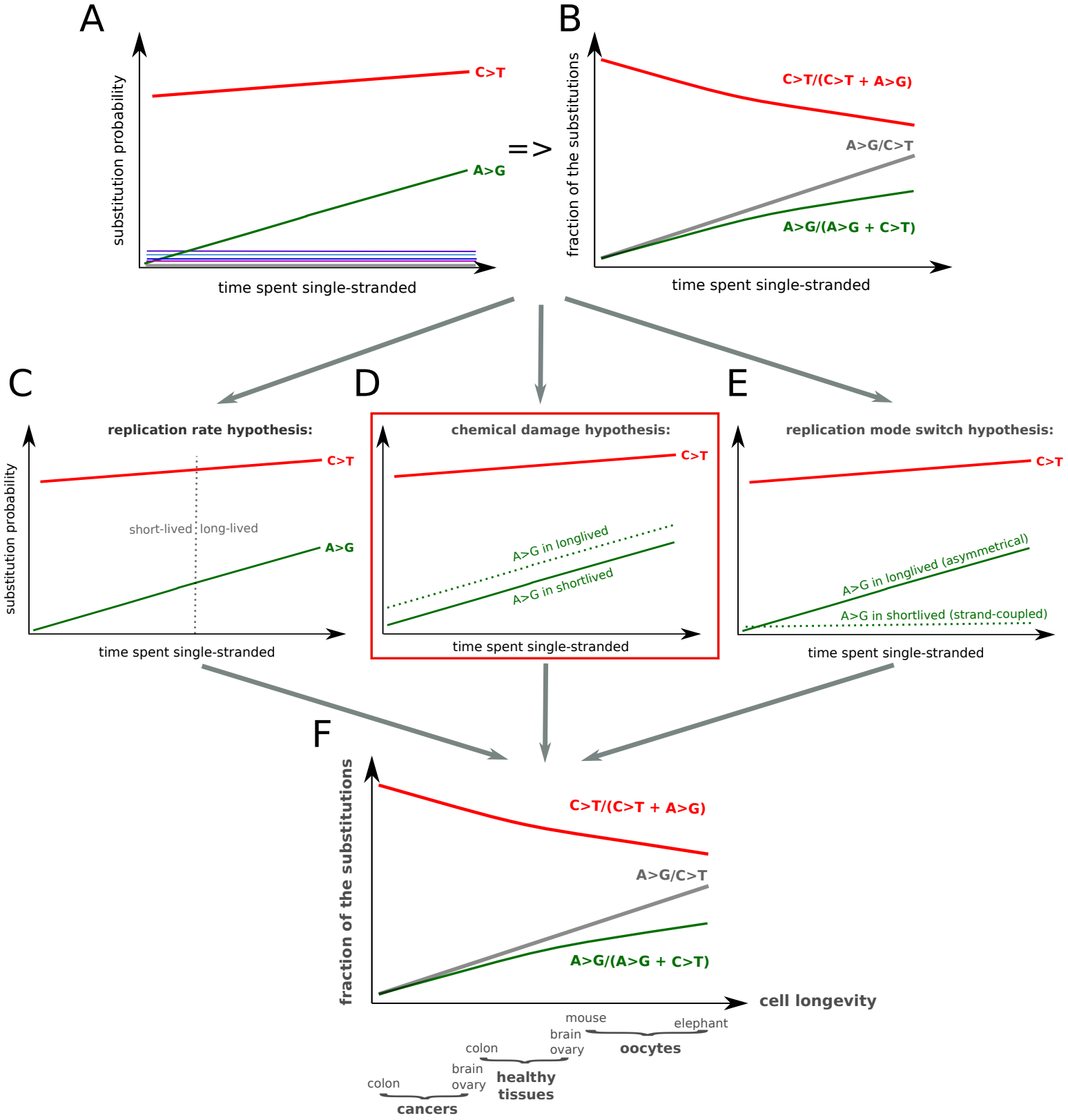
A
substitution probability
C>T
A>G
time spent single-stranded
=>
B
fraction of the substitutions
C>T/(C>T + A>G)
A>G/C>T
A>G/(A>G + C>T)
time spent single-stranded
C
replication rate hypothesis:
substitution probability
C>T
short-lived
long-lived
A>G
time spent single-stranded
D
chemical damage hypothesis:
C>T
A>G in longlived
A>G in shortlived
time spent single-stranded
E
replication mode switch hypothesis:
C>T
A>G in longlived (asymmetrical)
A>G in shortlived (strand-coupled)
time spent single-stranded
F
fraction of the substitutions
C>T/(C>T + A>G)
A>G/C>T
A>G/(A>G + C>T)
cell longevity
mouse
brain
ovary
elephant
oocytes
colon
brain
ovary
healthy tissues
colon
cancers

Figure 5