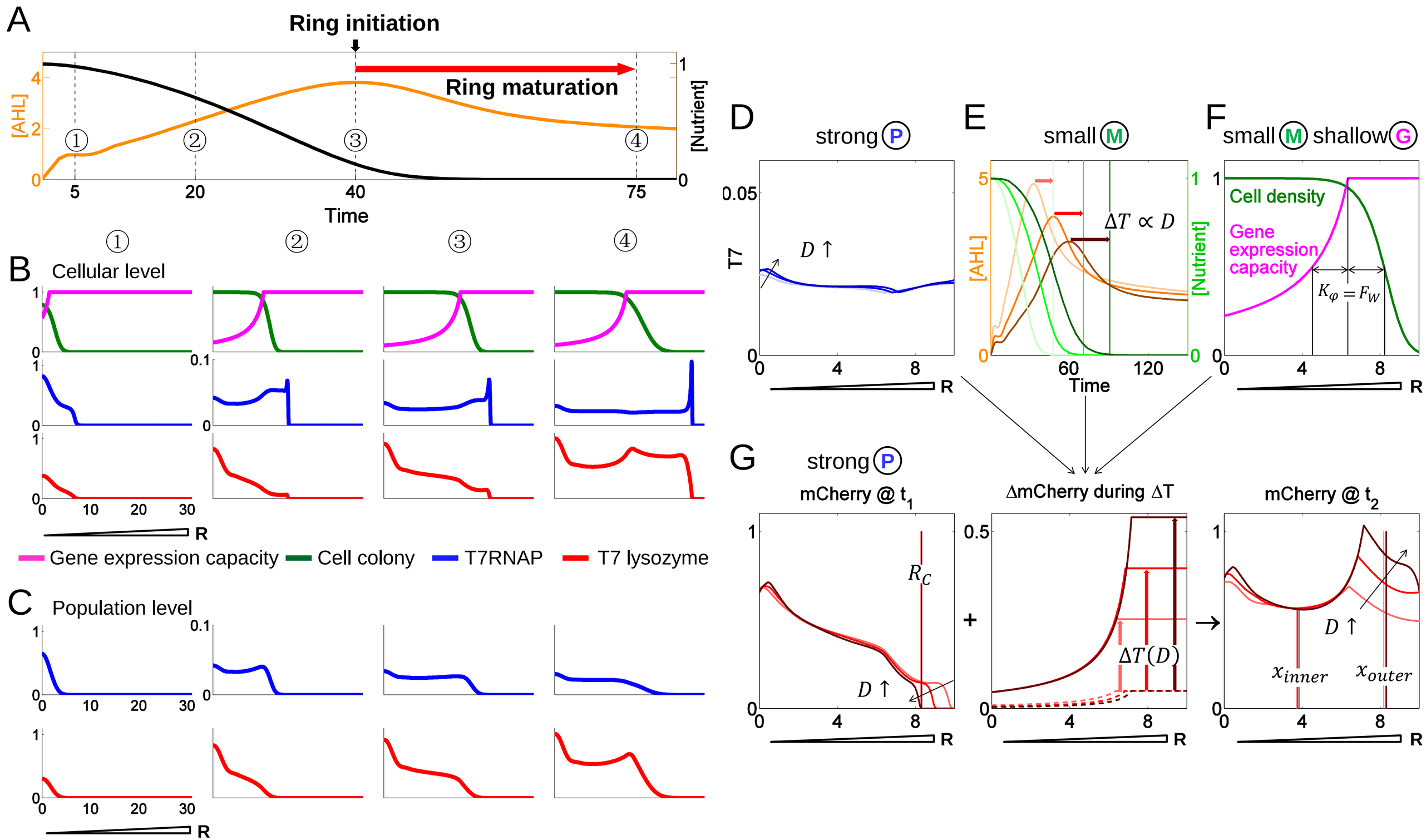
A
Ring initiation
Ring maturation
[AHL]
[Nutrient]
Time
B
Cellular level
C
Population level
R
Gene expression capacity
Cell colony
T7RNAP
T7 lysozyme
D
strong P
T7
$D \uparrow$
E
small M
$\Delta T \propto D$
Time
F
small M shallow G
Cell density
Gene expression capacity
$K_\varphi = F_W$
G
strong P
mCherry @ t_1
R_C
$D \uparrow$
ΔmCherry during ΔT
$\Delta T(D)$
mCherry @ t_2
x_{inner}
x_{outer}