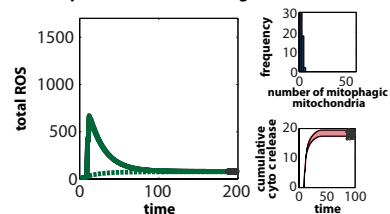


# Supplementary Figure S7

**A**

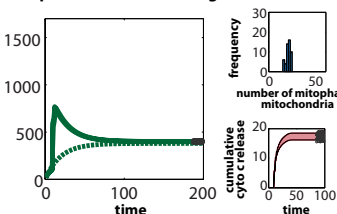
$r_{\text{production}} = 0.01, r_{\text{degradation}} = 5\%$



| at $t = 200$ | mean  | s.d. | $c_V$ |
|--------------|-------|------|-------|
| mitophagy    | 2.24  | 1.46 | 0.65  |
| cytochrome c | 18.43 | 1.03 | 0.06  |

**B**

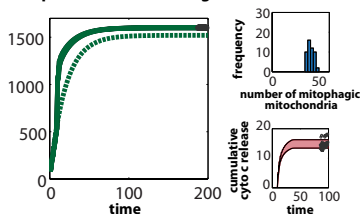
$r_{\text{production}} = 0.05, r_{\text{degradation}} = 5\%$



| at $t = 200$ | mean  | s.d. | $c_V$ |
|--------------|-------|------|-------|
| mitophagy    | 20.36 | 2.72 | 0.13  |
| cytochrome c | 17.36 | 1.15 | 0.07  |

**C**

$r_{\text{production}} = 0.2, r_{\text{degradation}} = 5\%$



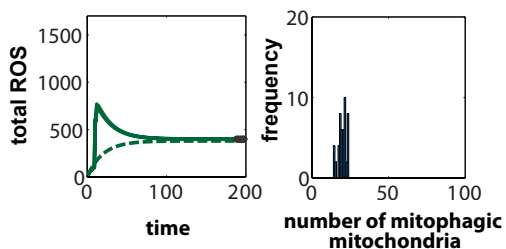
| at $t = 200$ | mean  | s.d. | $c_V$ |
|--------------|-------|------|-------|
| mitophagy    | 40.64 | 3.79 | 0.09  |
| cytochrome c | 14.86 | 1.42 | 0.10  |

tBid activation at  $t = 5$  for all simulations

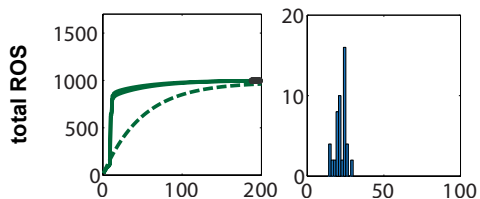
**D**

**WT**

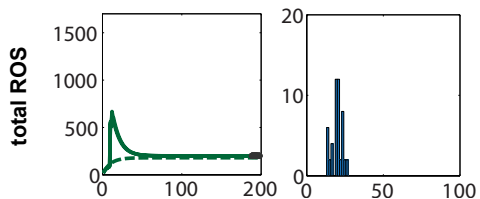
$r_{\text{production}} = 0.05, r_{\text{degradation}} = 5\%$



$r_{\text{production}} = 0.05, r_{\text{degradation}} = 2\%$

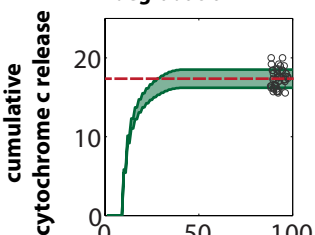


$r_{\text{production}} = 0.05, r_{\text{degradation}} = 10\%$

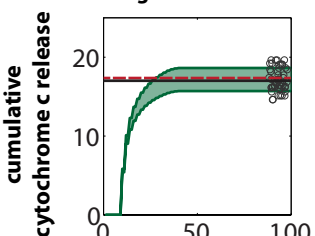


**E**

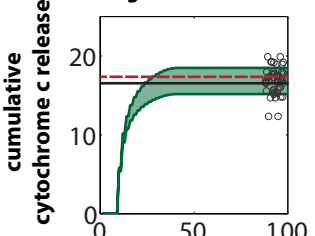
$r_{\text{production}} = 0.05$   
 $r_{\text{degradation}} = 5\%$



$r_{\text{production}} = 0.05$   
 $r_{\text{degradation}} = 2\%$



$r_{\text{production}} = 0.05$   
 $r_{\text{degradation}} = 10\%$



|     | mean  | s.d. | $c_V$ |
|-----|-------|------|-------|
| 5%  | 17.36 | 1.15 | 0.07  |
| 2%  | 17.17 | 1.46 | 0.09  |
| 10% | 16.33 | 1.66 | 0.10  |

— simulation — ROS without mitochondria