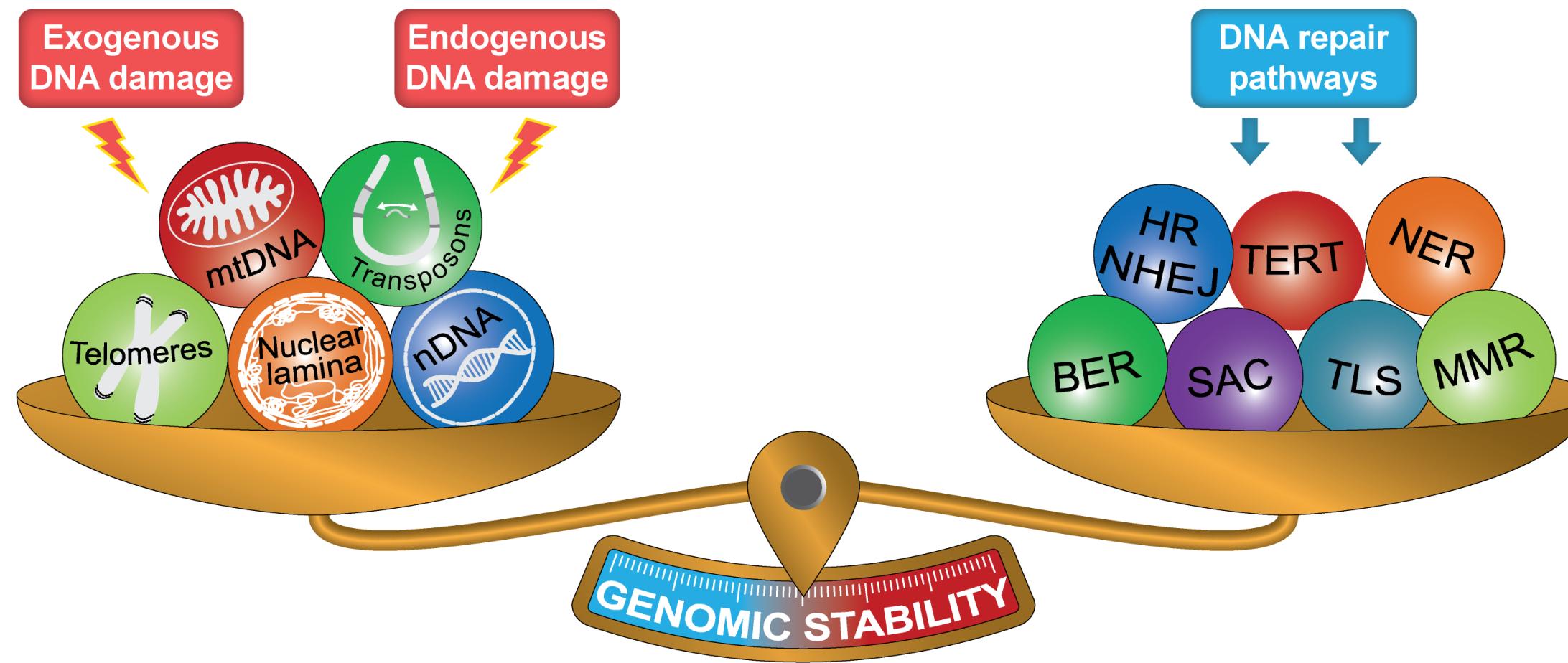
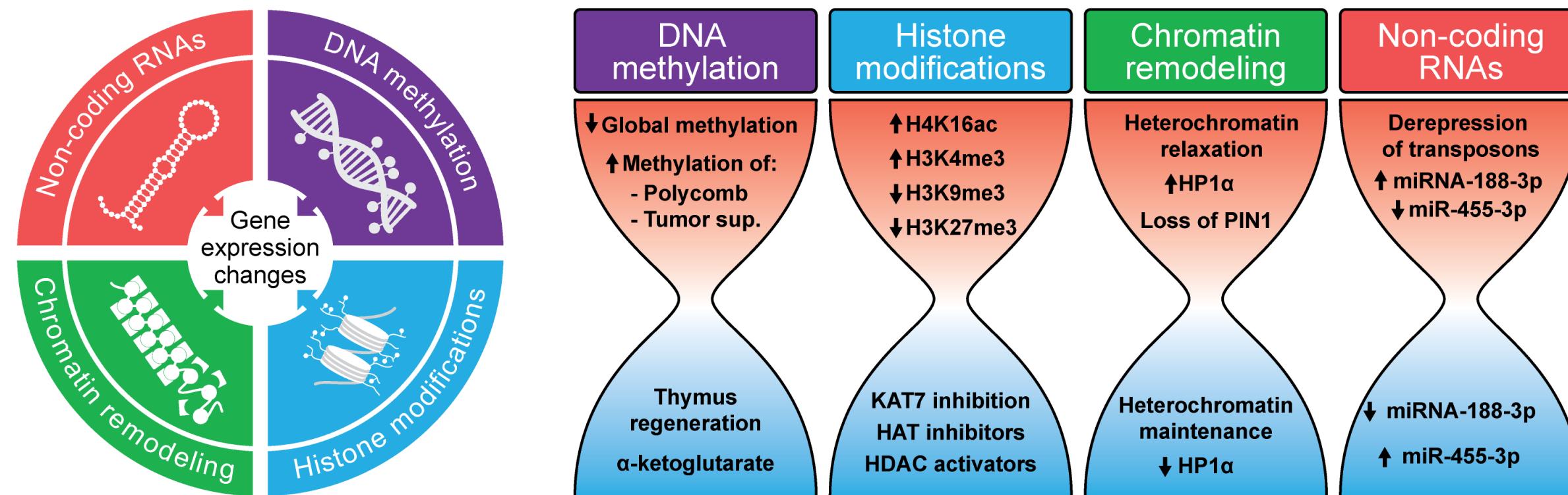
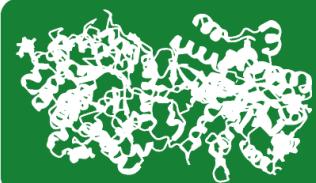




Fig.1 Hallmarks of Aging

**A****B****Fig2. Hallmarks of Aging**



## Loss of proteostasis



## Disabled macroautophagy

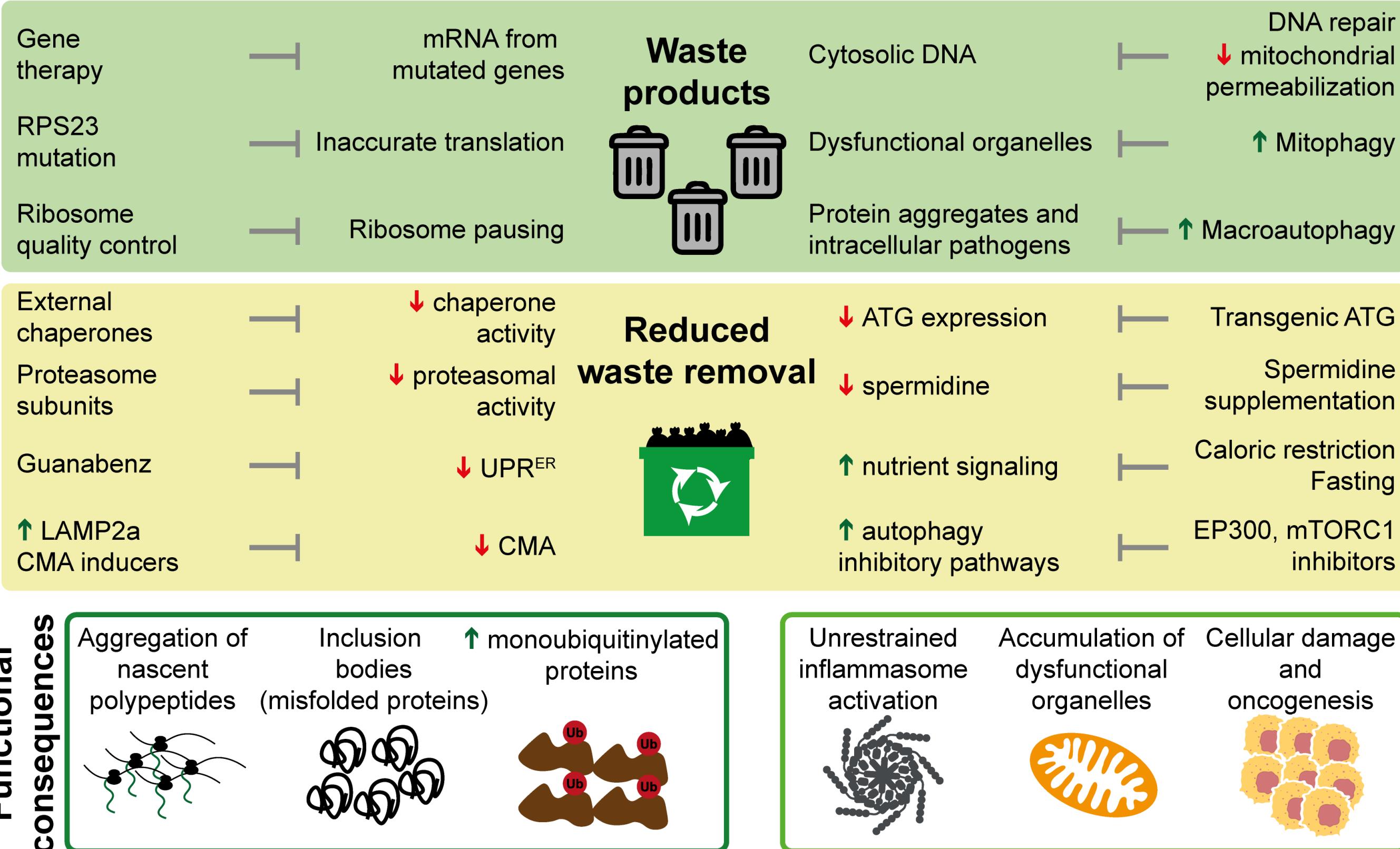
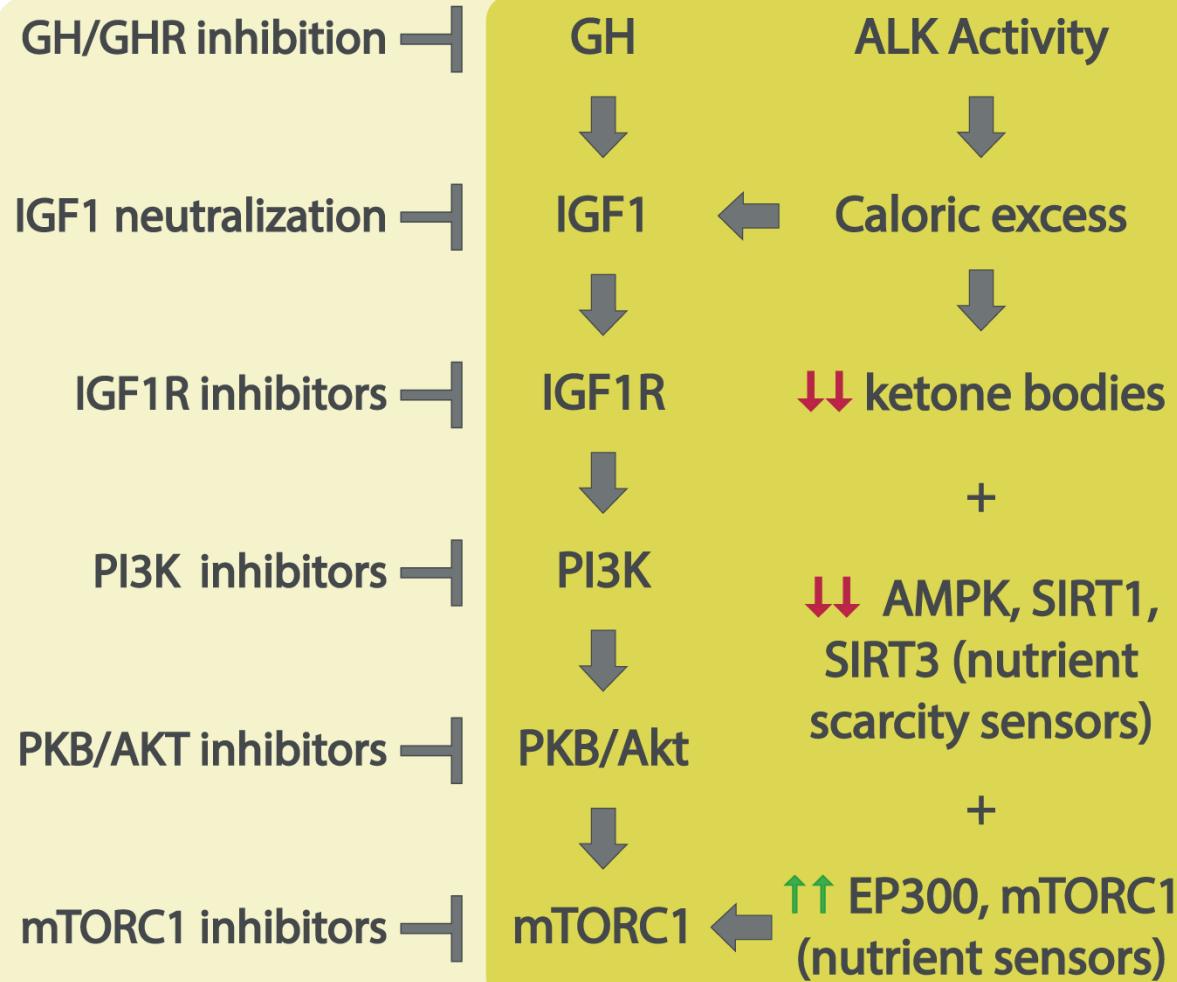


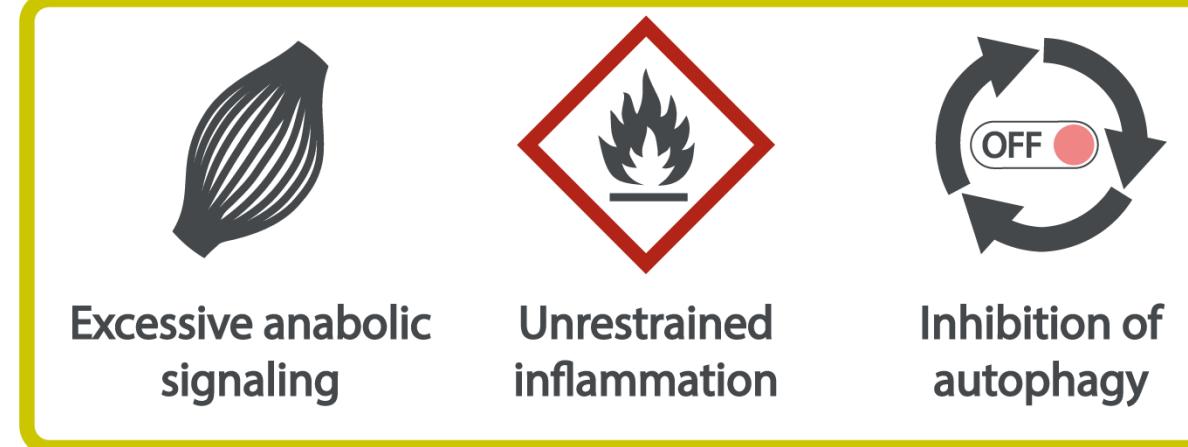
Figure 3. Hallmarks of Aging



## Deregulated nutrient-sensing



### Functional consequences



## Mitochondrial dysfunction

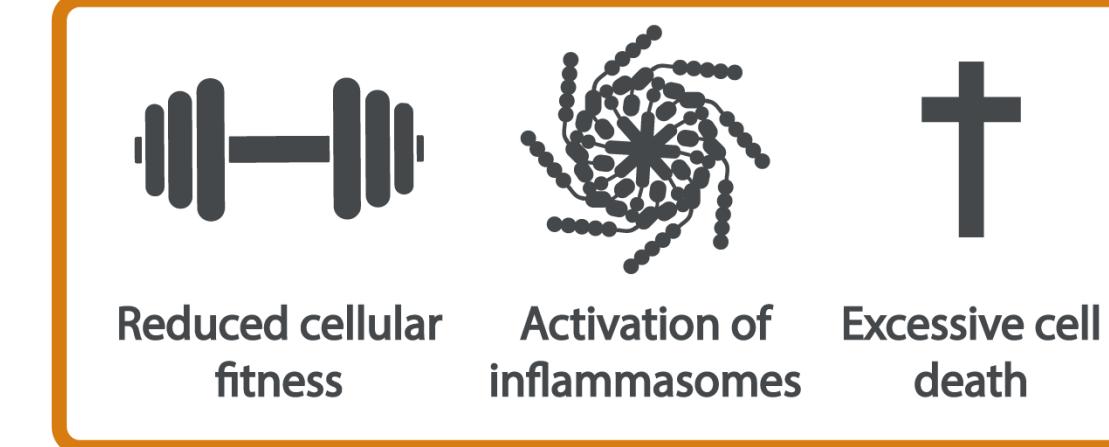
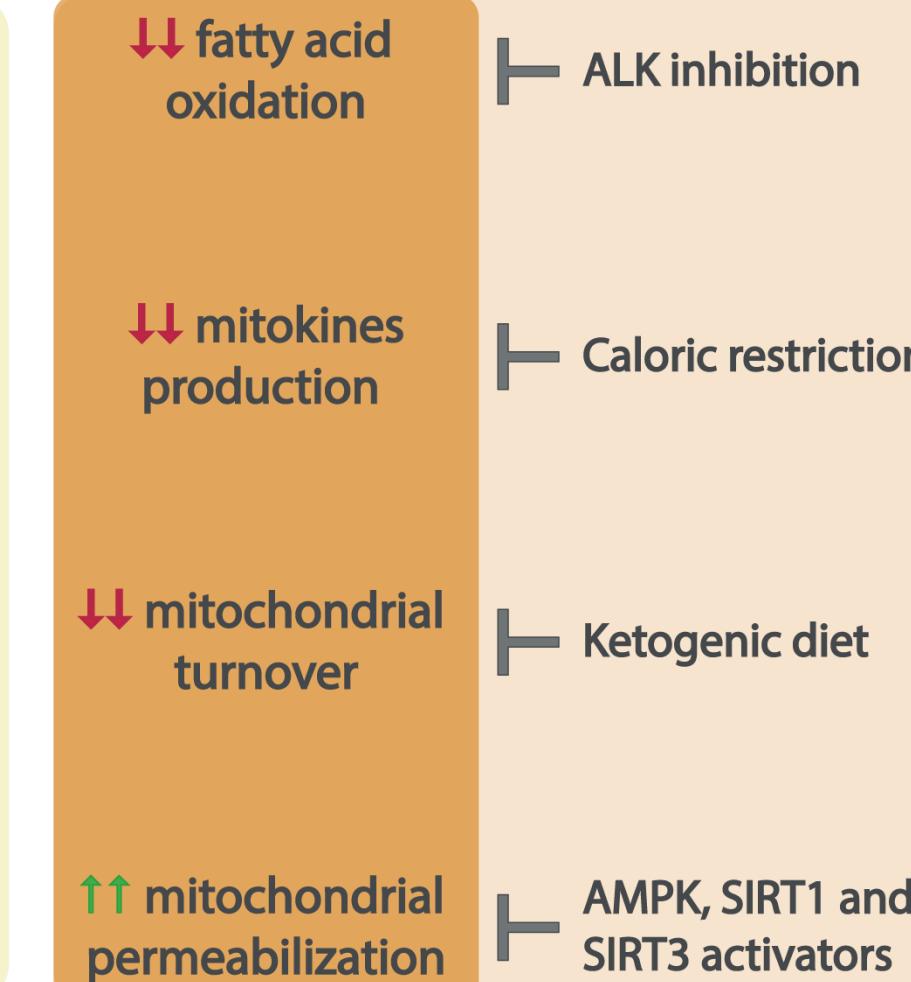
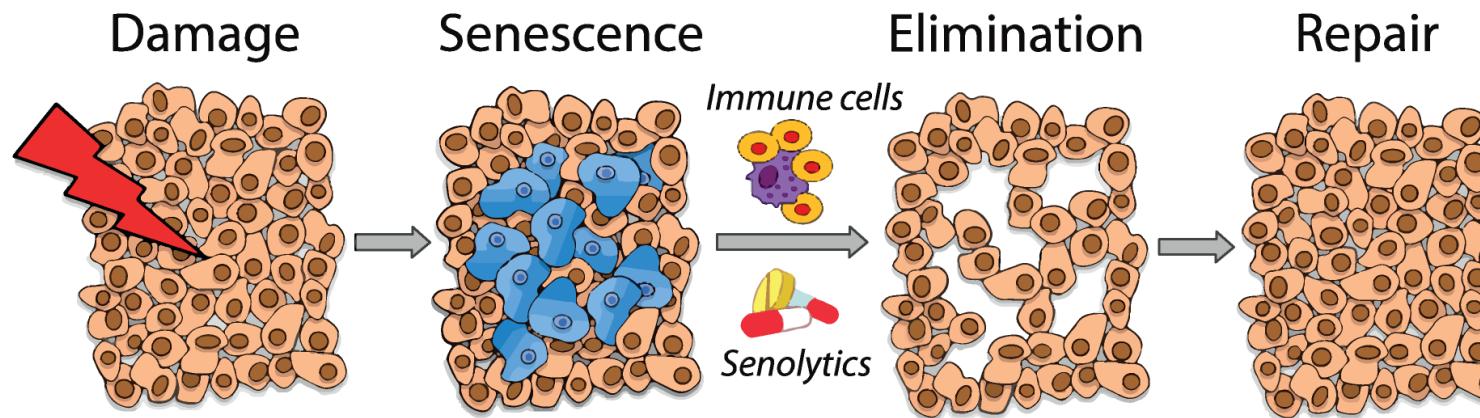
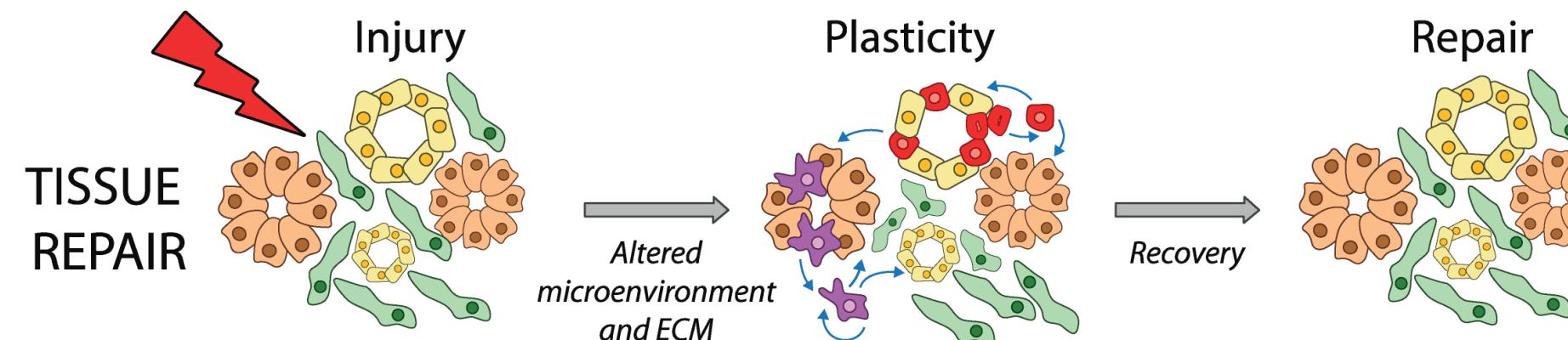


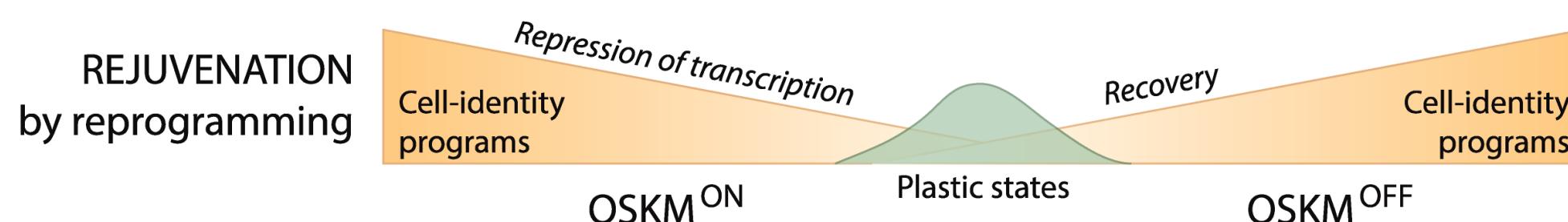
Figure 4. Hallmarks of Aging

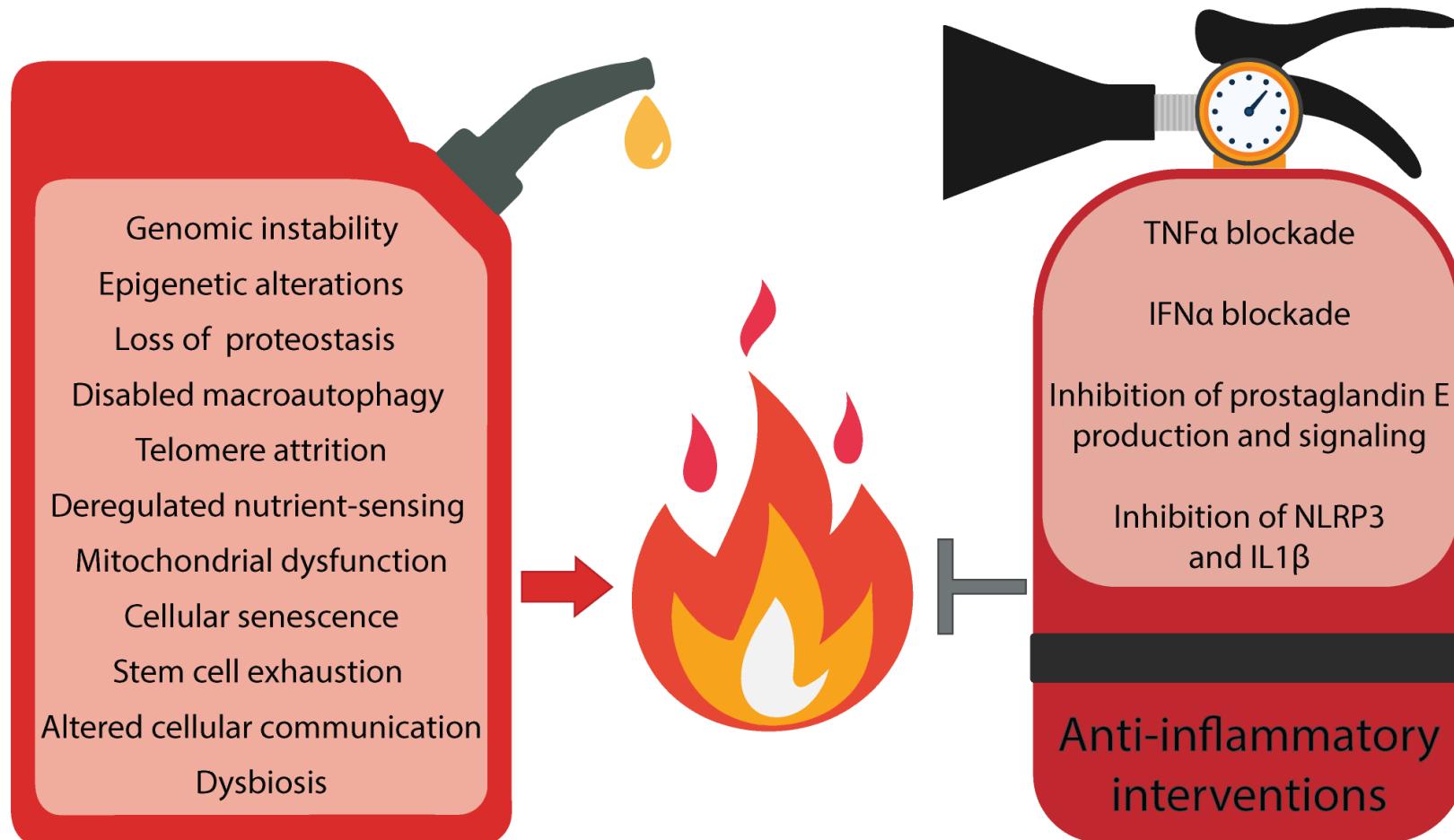
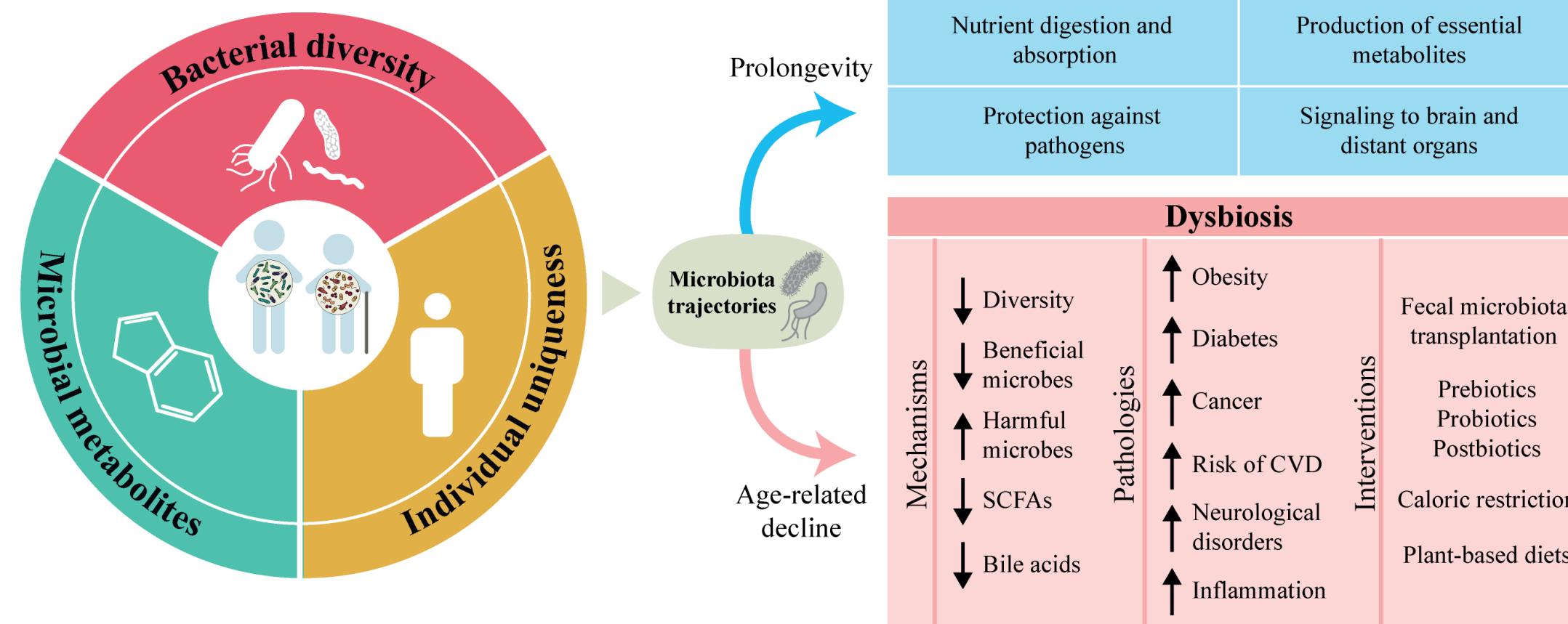
**A**

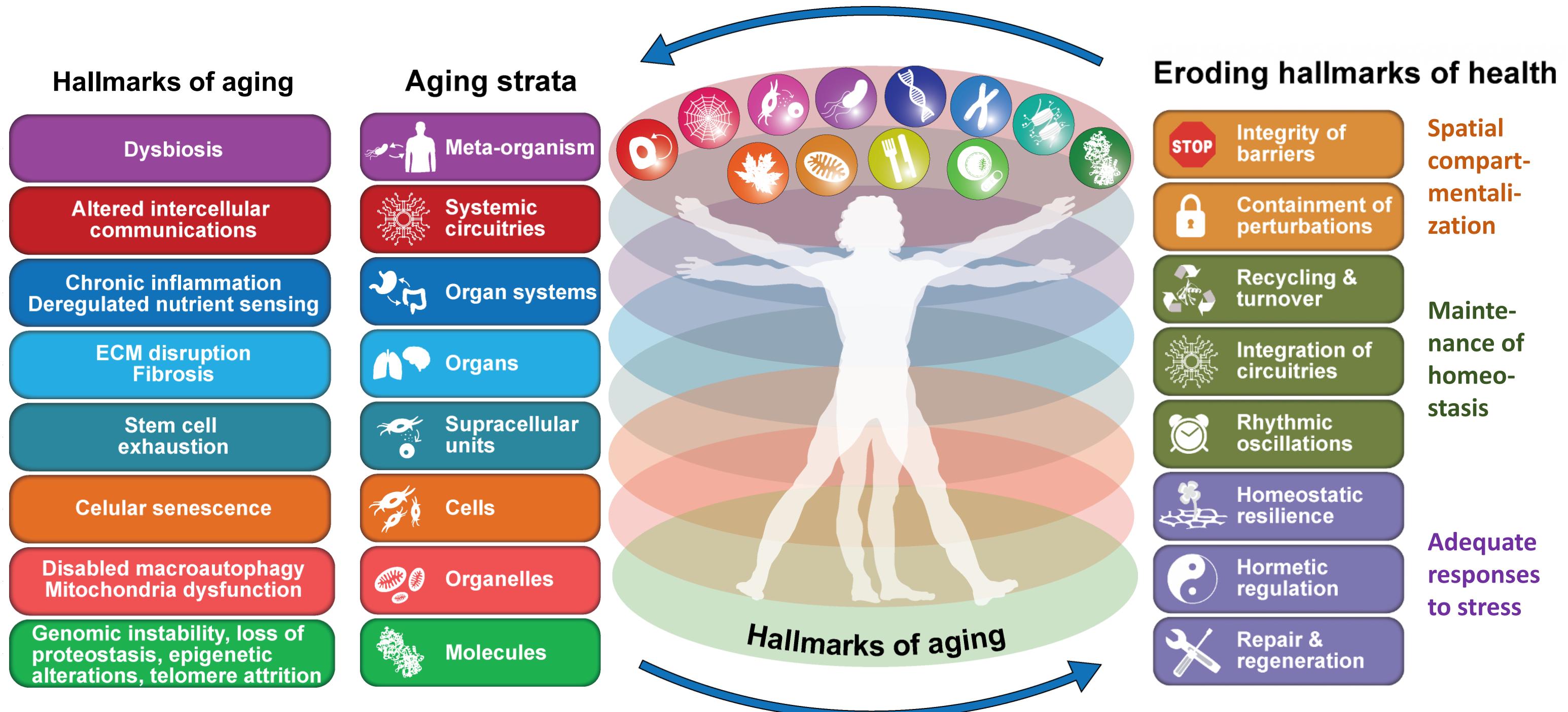
Context	1 <sup>st</sup> STEP	2 <sup>nd</sup> STEP	Outcome
Physiological	OK	OK	Repair
Pathogenic	OK	Failure	Aging/disease
Oncogenic	Failure	Failure	Cancer

**B**

Context	1 <sup>st</sup> STEP	2 <sup>nd</sup> STEP	Outcome
Tissue injury	De-differentiation	Re-differentiation	Repair
OSKM partial reprogramming	De-differentiation	Re-differentiation	Rejuvenation

**Fig 5. Hallmarks of Aging**

**A****B****Fig 6. Hallmarks of Aging**



**Figure 7. Hallmarks of Aging**