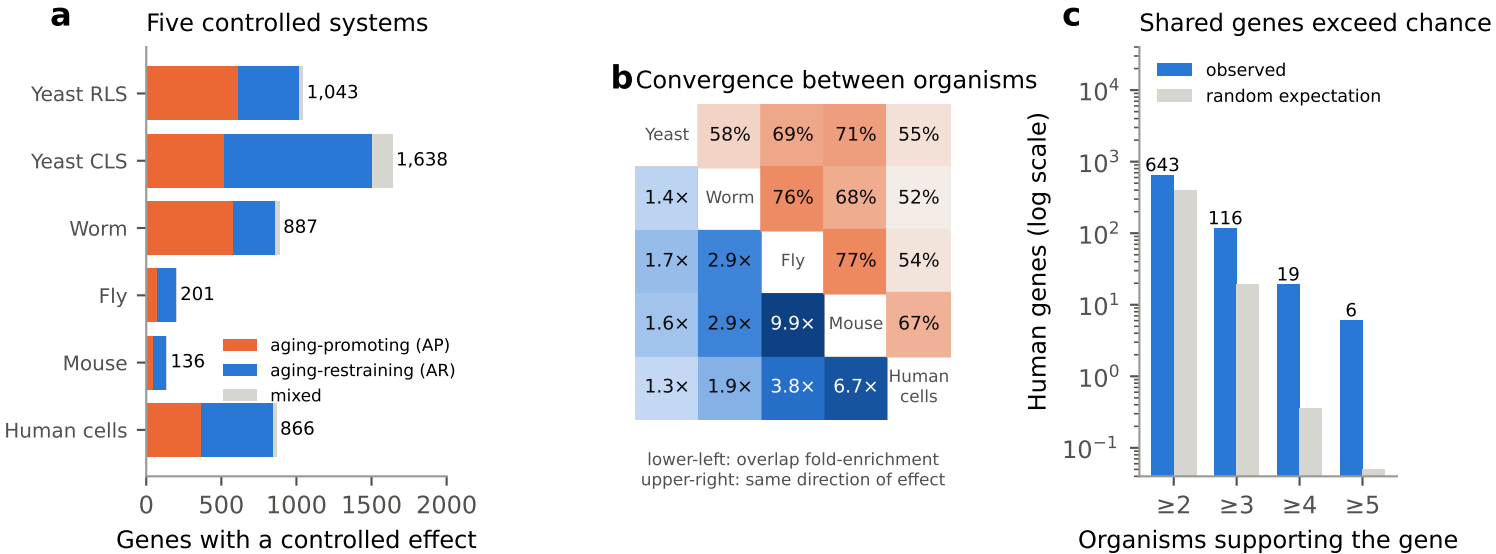

a
Five controlled systems
Yeast RLS
Yeast CLS
Worm
Fly
Mouse
Human cells
1,043
1,638
887
201
136
866
aging-promoting (AP)
aging-restraining (AR)
mixed
0
500
1000
1500
2000
Genes with a controlled effect
b
Convergence between organisms
Yeast
58%
69%
71%
55%
1.4×
Worm
76%
68%
52%
1.7×
2.9×
Fly
77%
54%
1.6×
2.9×
9.9×
Mouse
67%
1.3×
1.9×
3.8×
6.7×
Human cells
lower-left: overlap fold-enrichment
upper-right: same direction of effect
c
Shared genes exceed chance
observed
random expectation
Human genes (log scale)
643
116
19
6
≥2
≥3
≥4
≥5
Organisms supporting the gene