Genetic assimilation of ancestral plasticity during parallel adaptation to Zinc contamination in Silene uniflora

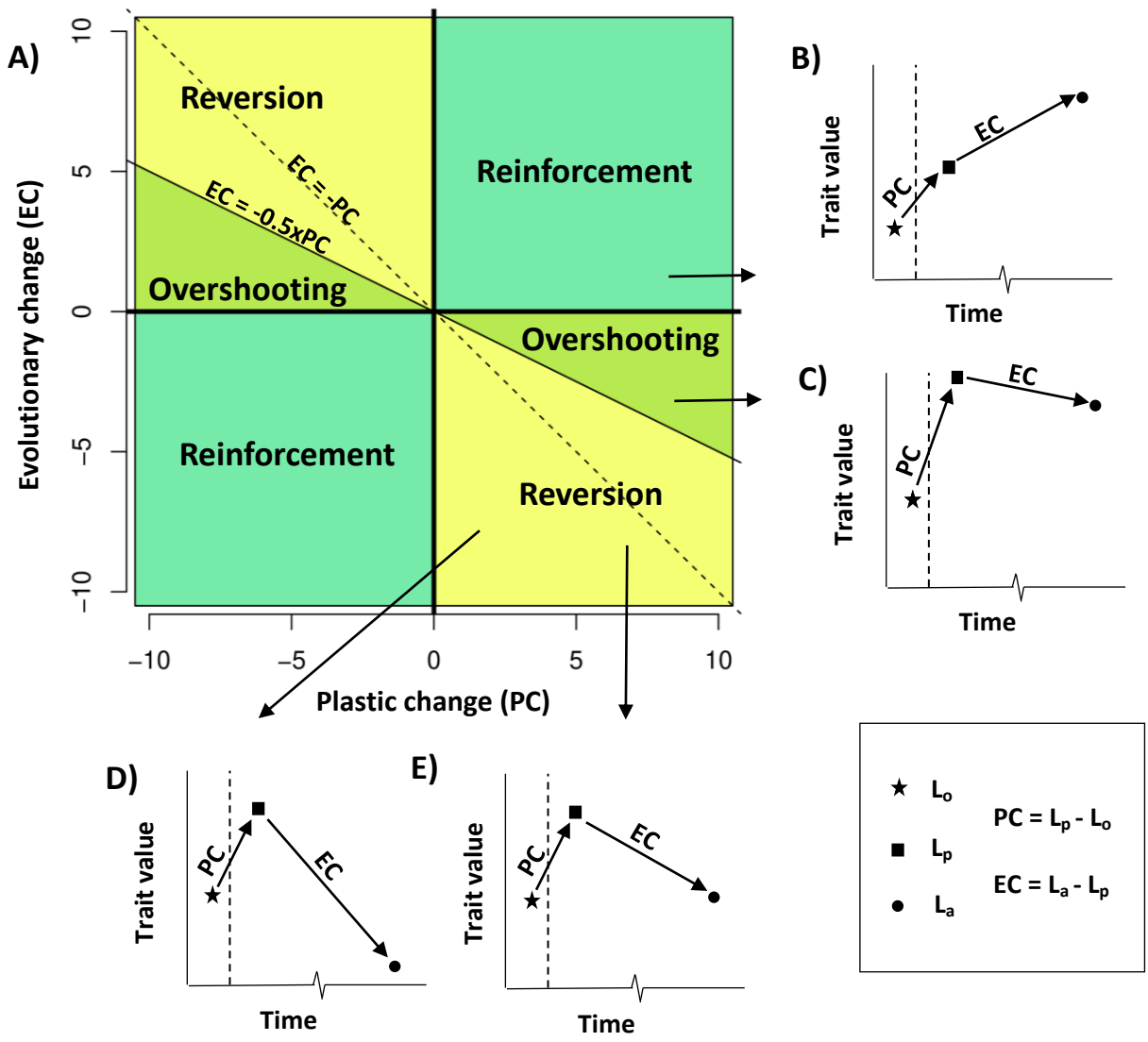
Wood, Daniel; Holmberg, Jon; Osborne, Owen; Helmstetter, Andrew J.; Dunning, Luke T; Ellison, Amy; Smith, Rhian J.; Lighten, Jackie; Papadopulos, Alexander S. T.

Nature Ecology and Evolution

DOI:
10.1038/s41559-022-01975-w

Published: 01/03/2023

Peer reviewed version


A)
Reversion
Reinforcement
Overshooting
Overshooting
Reinforcement
Reversion
EC = -PC
EC = -0.5xPC
Evolutionary change (EC)
Plastic change (PC)
10
5
0
−5
−10
B)
Trait value
PC
EC
Time
C)
Trait value
PC
EC
Time
D)
Trait value
PC
EC
Time
E)
Trait value
PC
EC
Time
L_o
L_p
L_a
$PC = L_p - L_o$
$EC = L_a - L_p$