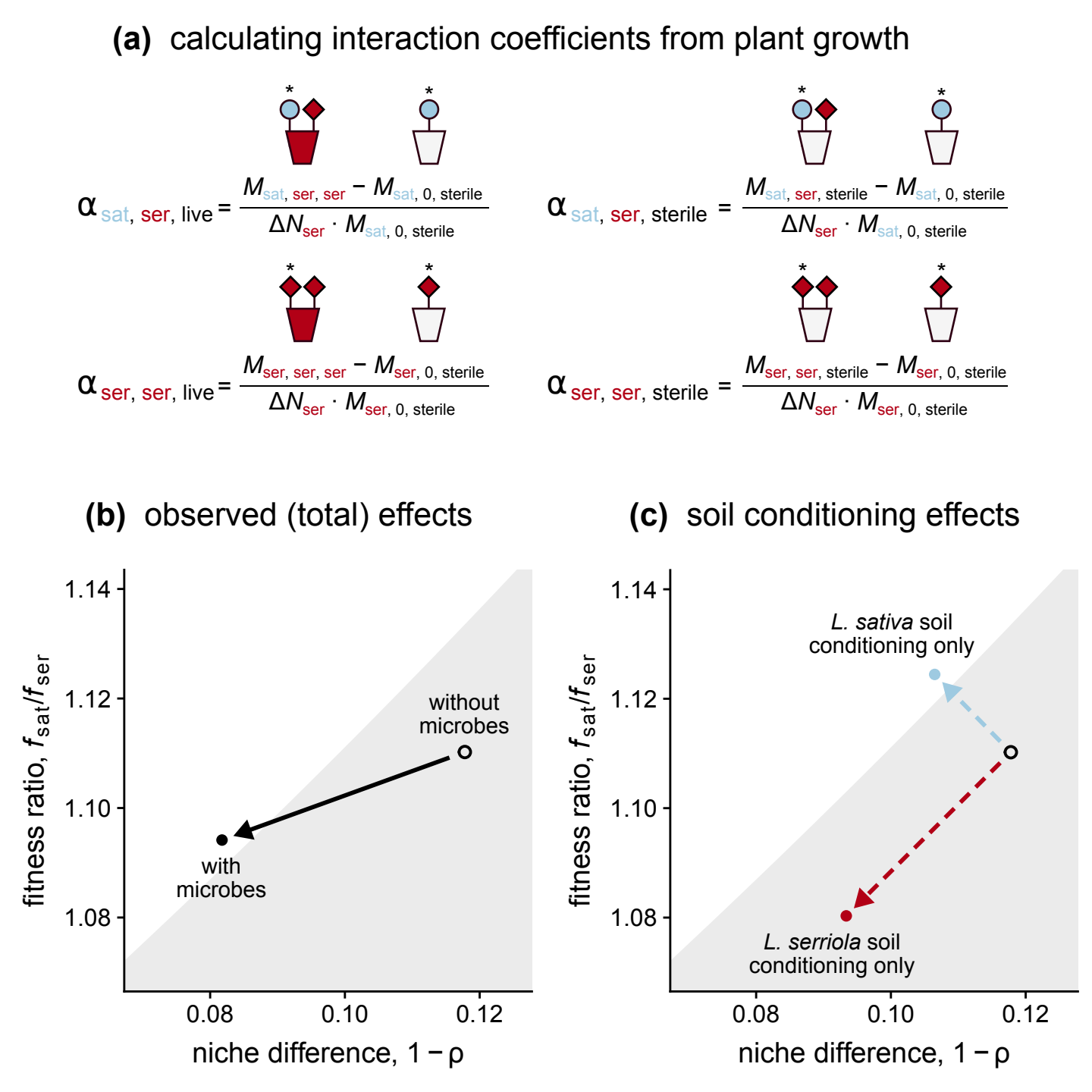
(a) calculating interaction coefficients from plant growth
$\alpha_{sat,\,ser,\,live} = \frac{M_{sat,\,ser,\,ser} - M_{sat,\,0,\,sterile}}{\Delta N_{ser} \cdot M_{sat,\,0,\,sterile}}$
$\alpha_{sat,\,ser,\,sterile} = \frac{M_{sat,\,ser,\,sterile} - M_{sat,\,0,\,sterile}}{\Delta N_{ser} \cdot M_{sat,\,0,\,sterile}}$
$\alpha_{ser,\,ser,\,live} = \frac{M_{ser,\,ser,\,ser} - M_{ser,\,0,\,sterile}}{\Delta N_{ser} \cdot M_{ser,\,0,\,sterile}}$
$\alpha_{ser,\,ser,\,sterile} = \frac{M_{ser,\,ser,\,sterile} - M_{ser,\,0,\,sterile}}{\Delta N_{ser} \cdot M_{ser,\,0,\,sterile}}$
(b) observed (total) effects
(c) soil conditioning effects
fitness ratio, f_{sat}/f_{ser}
1.14
1.12
1.10
1.08
without microbes
with microbes
0.08
0.10
0.12
niche difference, 1 − ρ
L. sativa soil conditioning only
L. serriola soil conditioning only