Eco-evolutionary feedbacks promote fluctuating selection and long-term stability of species-rich antagonistic networks

Authors: Cecilia Siliansky de Andreazzi, Paulo R. Guimarães Jr and Carlos J. Melián.

Supporting Information

Table S1: List of parameters and variables used in the simulations.

Term	Definition	Initial conditions
N_V	Number of victim species	Parameterized with data from the empirical networks
N_E	Number of exploiter species	Parameterized with data from the empirical networks
V_i	Victim species abundance	Normal (mean = 0.5, sd = 0.1)
E_j	Exploiter species abundance	Normal (mean = 0.1, sd = 0.1)
z_i	Victim species mean trait	Normal (mean = 0, sd = 0.1)
y_j	Exploiter species mean trait	Normal (mean = 0, sd = 0.1)
c_i	Victim intraspecific competition	1
c_j	Exploiter intraspecific competition	1
b_i	Victim intrinsic birth rate	1.01
b_j	Exploiter intrinsic birth rate	0.3
θ_i	Victim trait favored by environmental selection	$\theta_i = z_i^{t=0}$
θ_j	Exploiter trait favored by environmental selection	$\theta_j = y_j^{t=0}$
α	Sensitivity to environmental selection	Parameter
d_i	Victim death rate	Variable
d_j	Exploiter death rate	Variable
m_{ij}	Trait matching	Variable
$\mathbf{X}$	Binary matrix of species interactions	Parameterized with data from the empirical networks
γ	Sensitivity to interaction selection	Parameter
φ	Constant proportional to the slope of the selection gradient	0.25
W_i	Victim species fitness	Variable
W_j	Exploiter species fitness	Variable