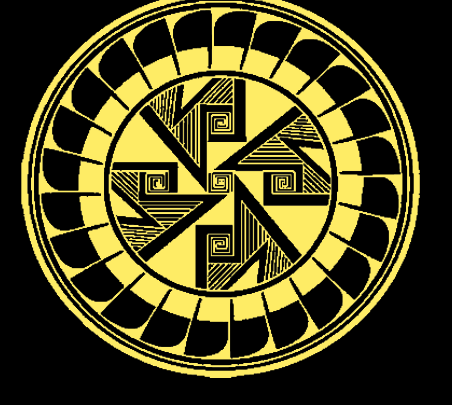


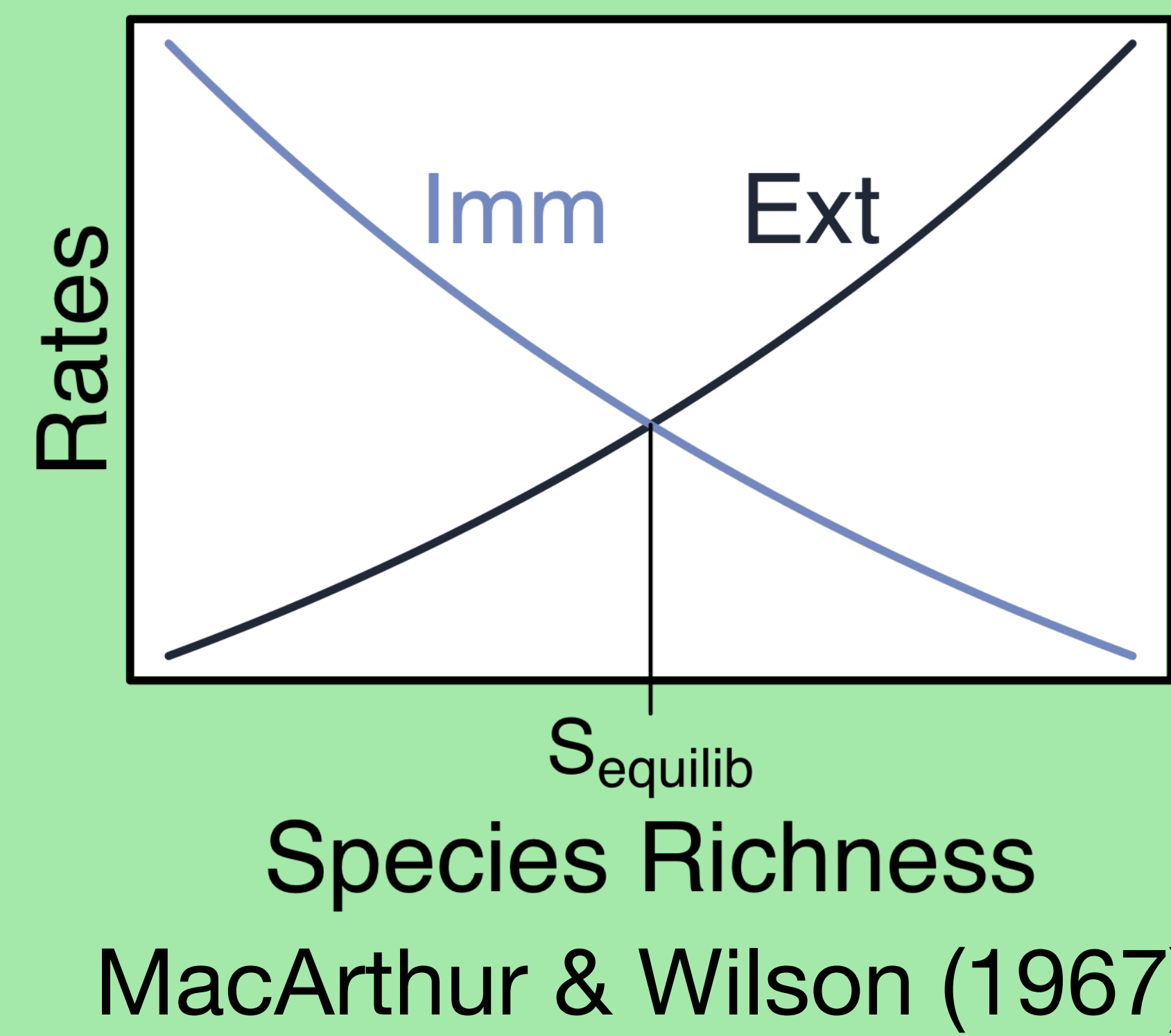
Linking Evolutionary and Ecological Theory Illuminates Non-Equilibrium Biodiversity



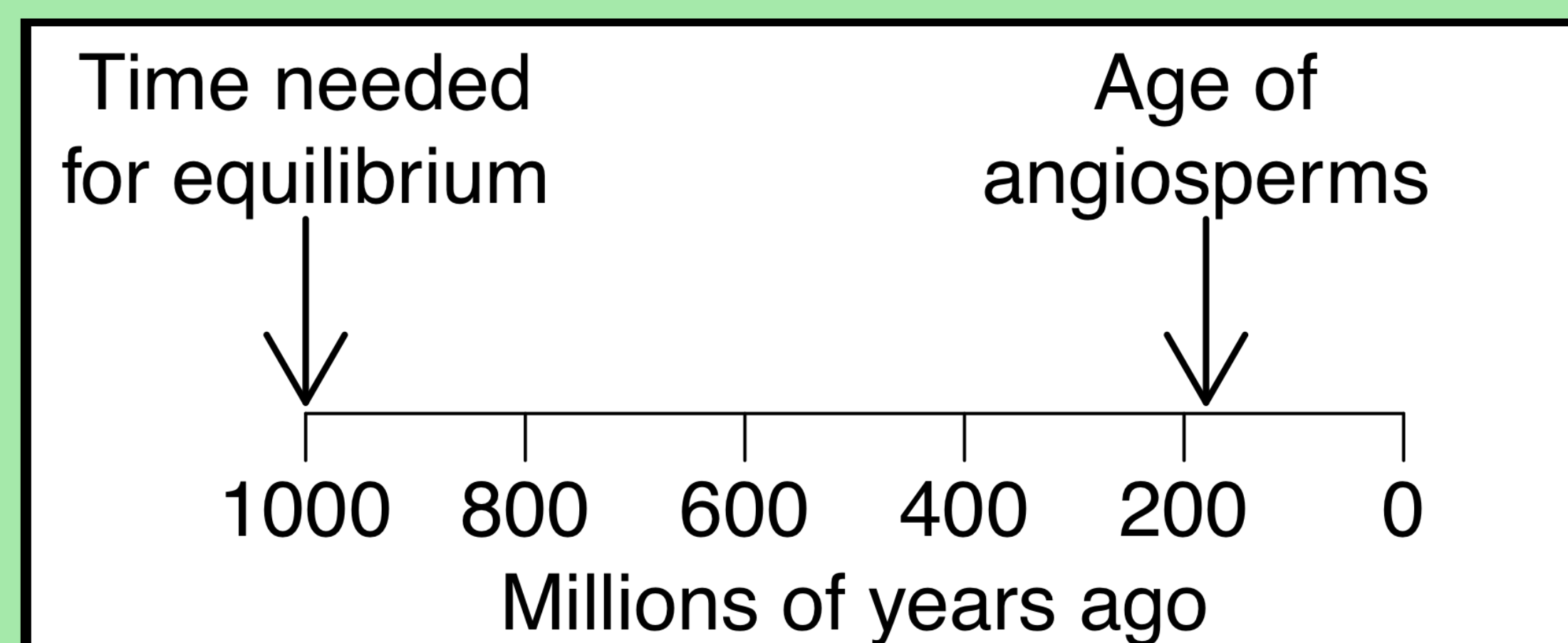
Andy Rominger^{1*} and Isaac Overcast² || ¹Santa Fe Institute, ²City College of New York || *ajrominger.github.io



Equilibrial theories have a long history in biodiversity studies

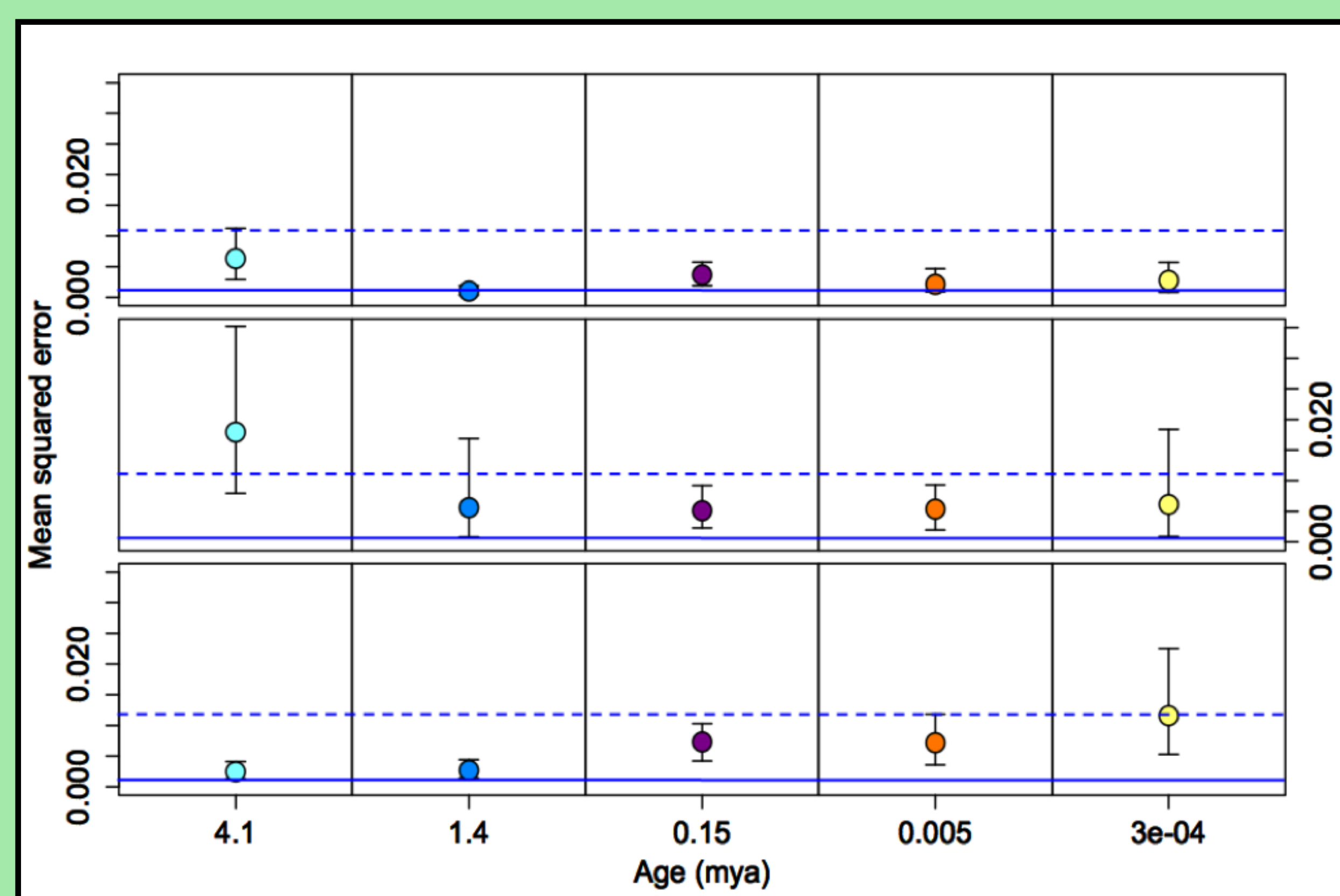


Historical perspectives demonstrate that equilibrium is often violated

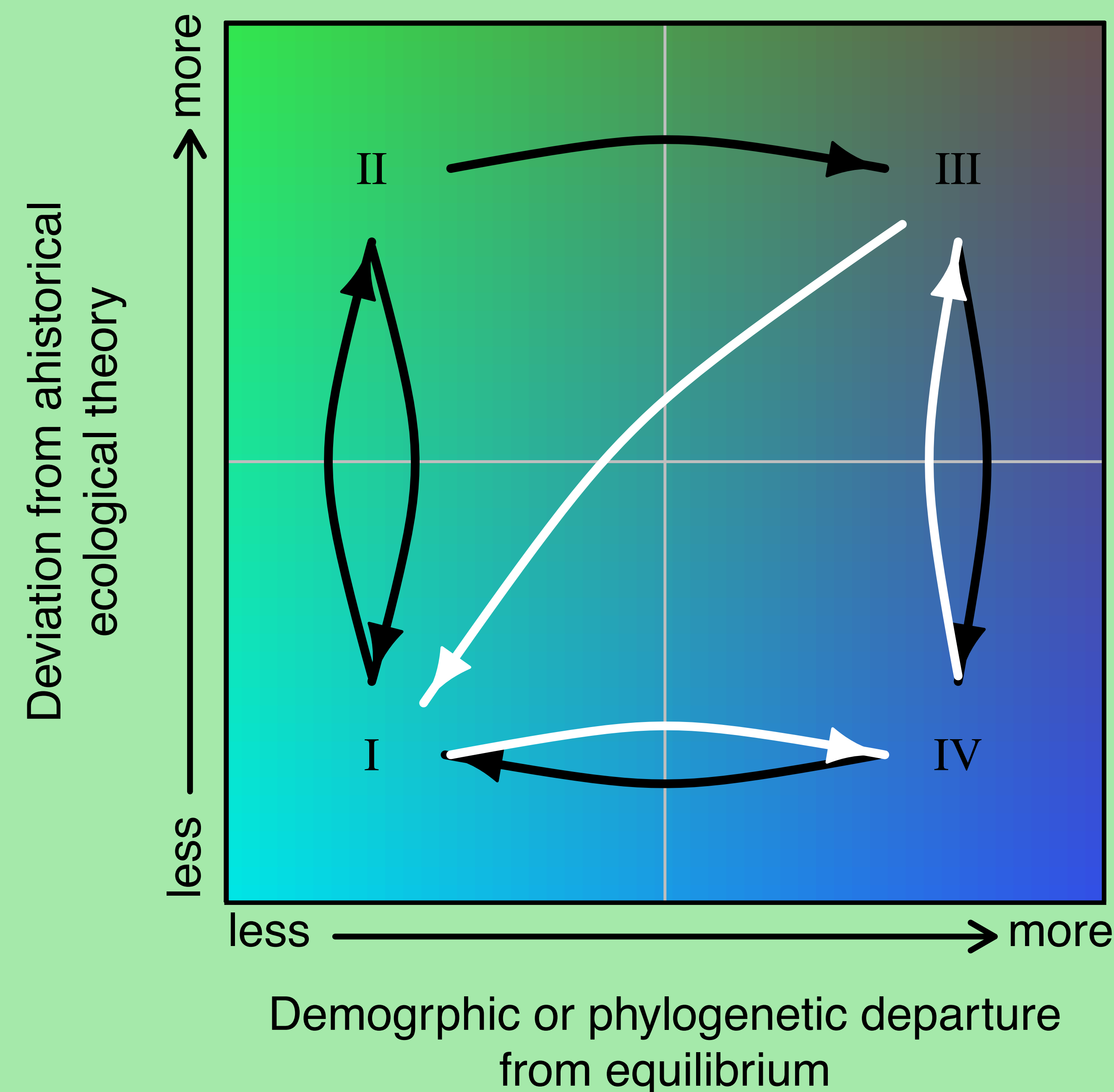


Nee (2005) *Funct. Ecol.* **19**: 173–176

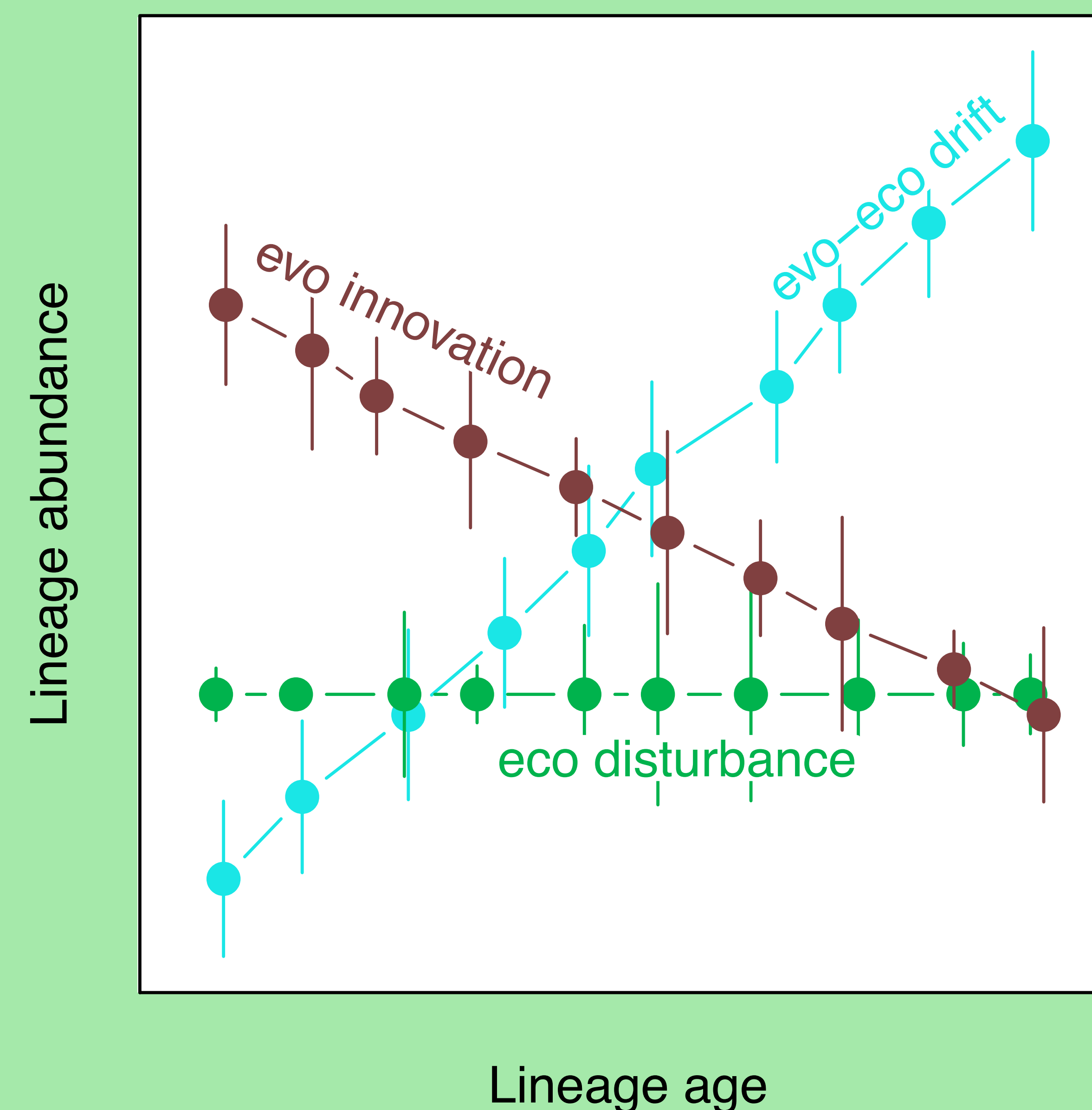
Departures from theory highlight non-equilibrium



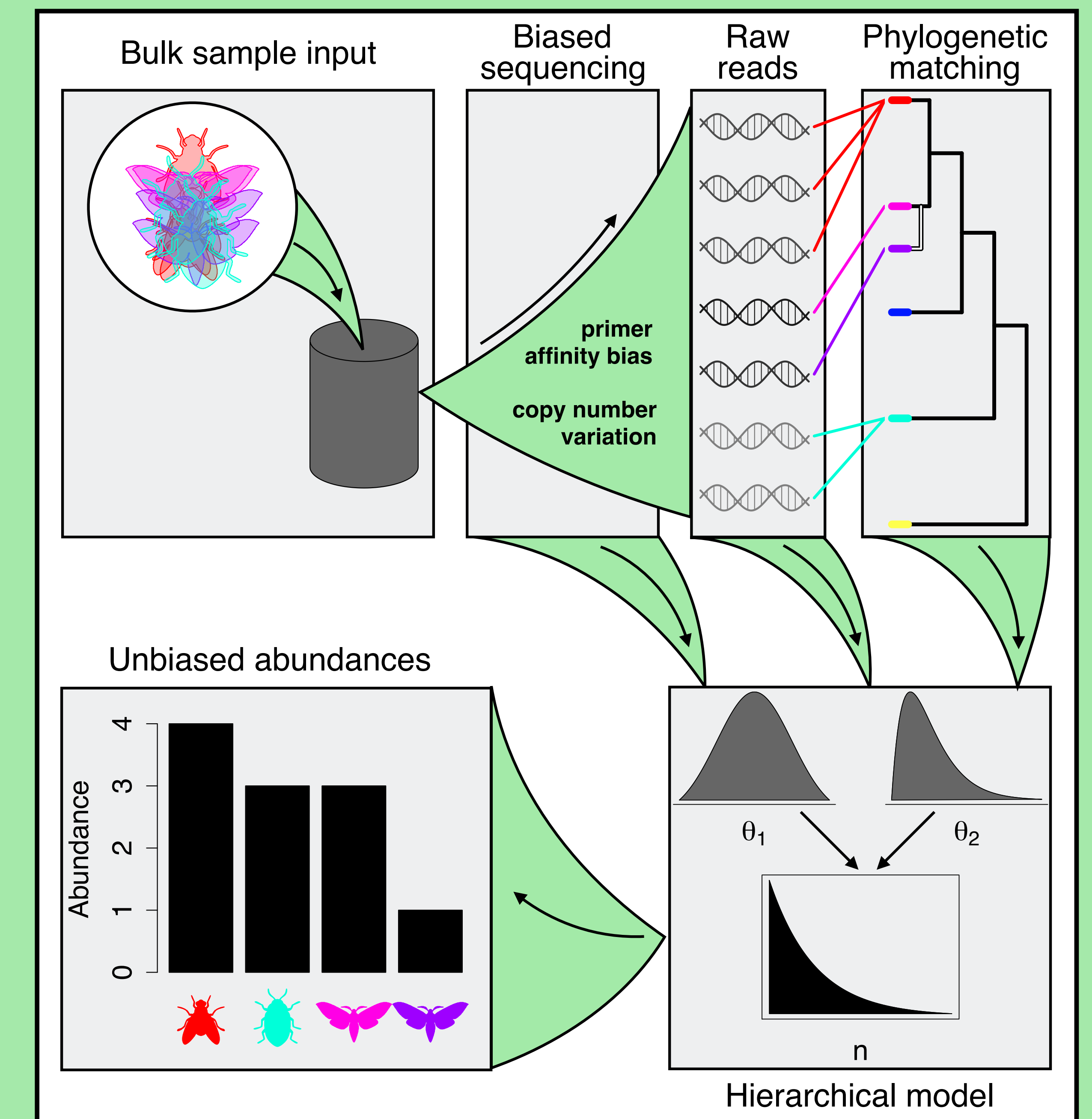
Combining evo and eco theories provides captures non-equilibrium dynamics



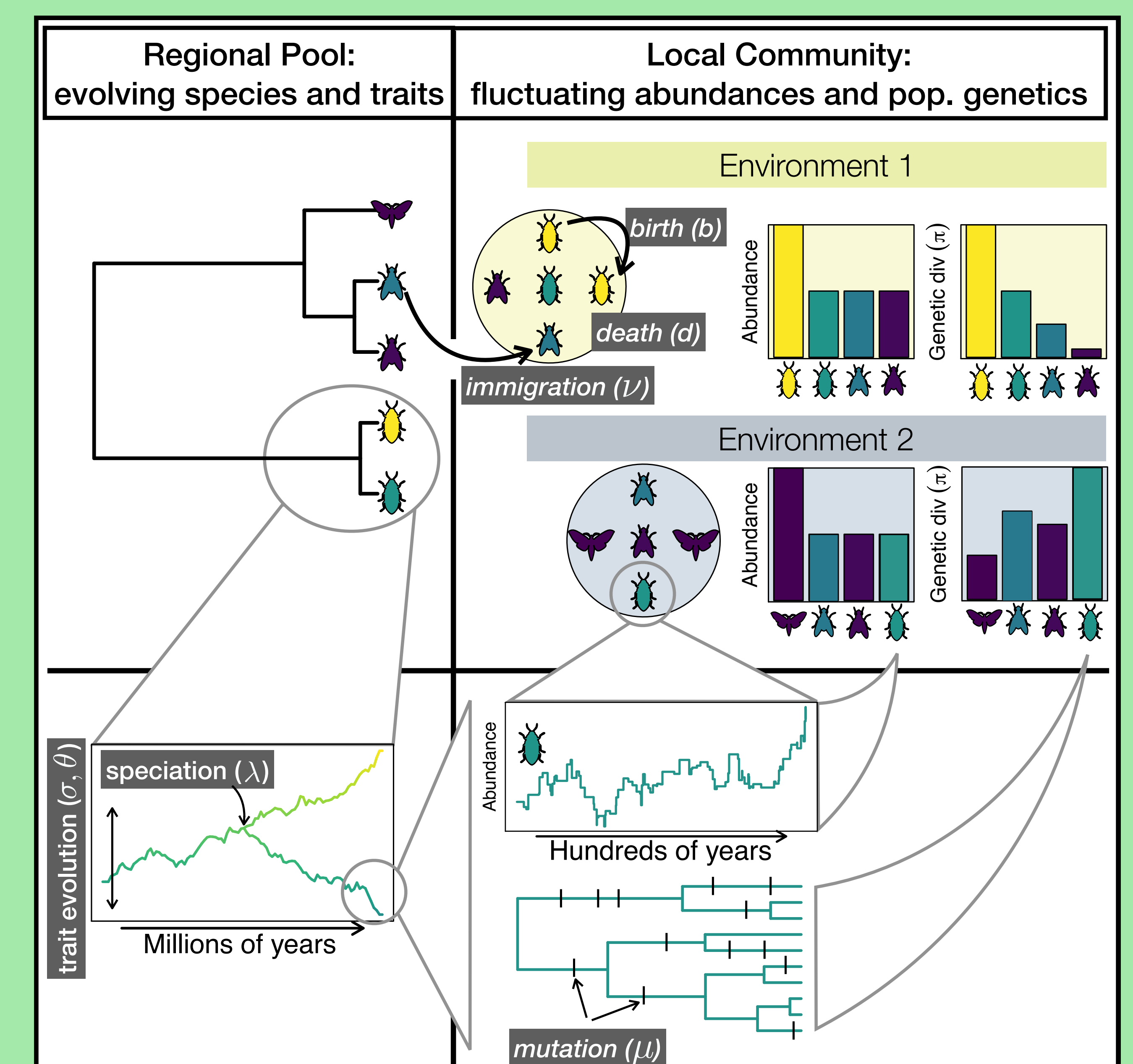
Abundance and evolutionary history together reveal departures from equilibrial drift



Meta-barcoding (if done right) unlocks evo-eco data



Mechanistic evo-eco theory reveals cause of non-equilibrium



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