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A comparison of stable and fluctuating resources with respect to evolutionary adaptation and life-history traits using individual-based modeling and machine learning

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**Highlights:**

- EcoSim, a predator-prey evolving individual-based model was used
- Individuals in stable and fluctuating environments were compared
- Underlying neural architecture was sufficient to yield behavioral plasticity
- Gene pools in fluctuating environments evolved faster than in stable environments
- Behavioral and physical characteristics for detection of resources were most divergent

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