

## Construcción de nicho y heredabilidad ecológica



## **Niche construction**

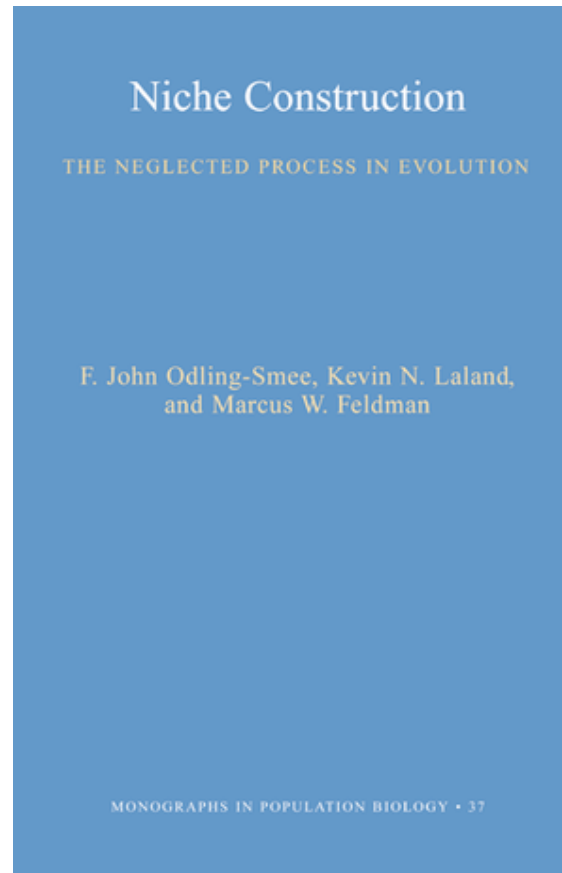
Niche construction is the process in which an organism, through its metabolism, its activities, and its choices, alters its own (or other species') environment, often but not always in a manner that increases its chances of survival

The defining characteristic of NC is not organism-driven modification of the environment per se, but rather modification of the relationship between an organism and its relative niche

NC theory contrasts with conventional conceptualizations of evolution. In standard models, adaptation is a process by which natural selection shapes organisms to fit preexisting environmental “templates.

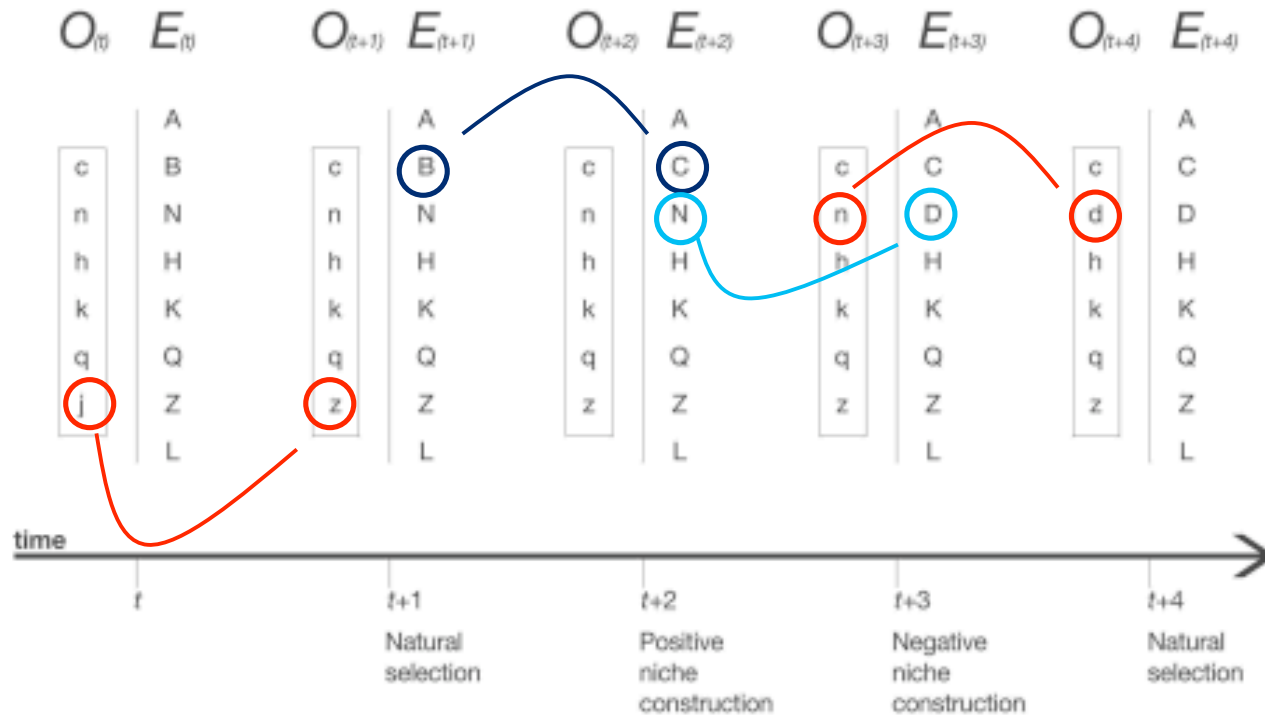


## Construcción de nicho: El comienzo de una hipótesis



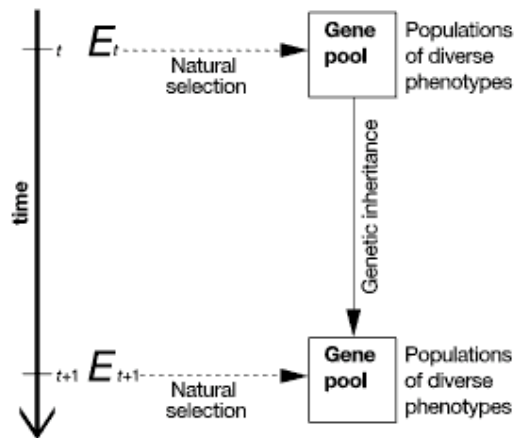
## Construcción de nicho: Una segunda ruta hacia la adaptación

By transforming natural selection pressures, niche construction generates feedback in evolution, on a scale hitherto underestimated, and in a manner that alters the evolutionary dynamic.

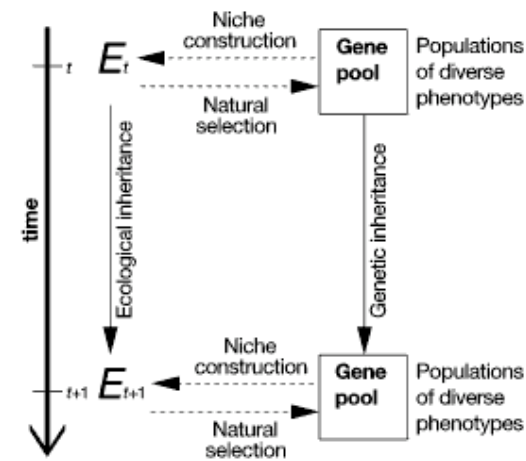


## Construcción de nicho y heredabilidad ecológica

The inheritance, via an external environment, of one or more natural selection pressures previously modified by niche-constructing organisms.

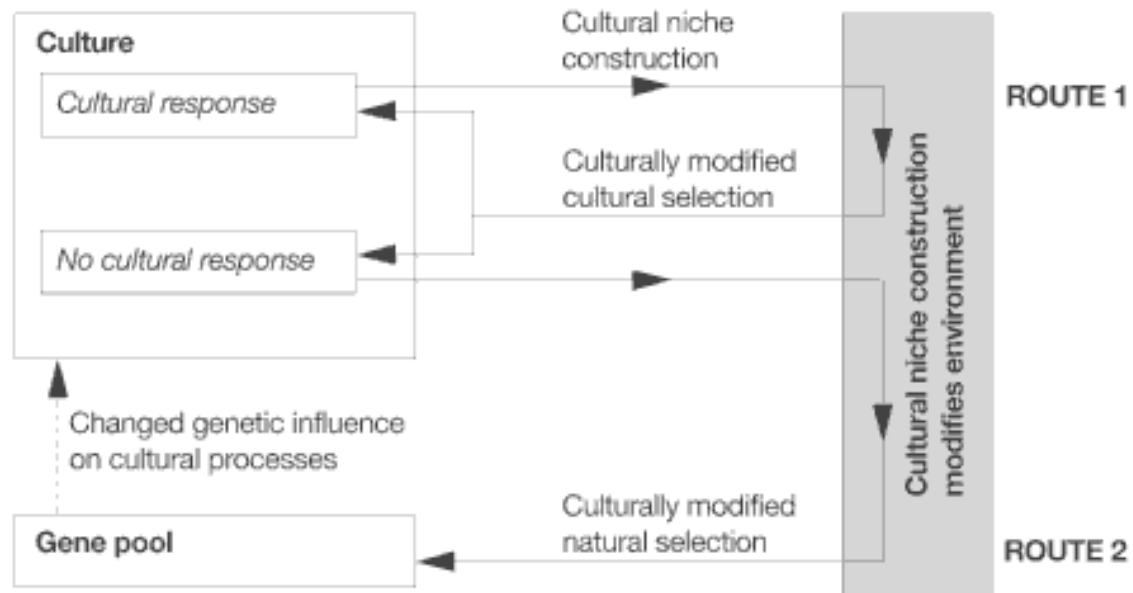


Standard Evolutionary Theory



Extended Evolutionary Theory

## Construcción de nicho y evolución cultural



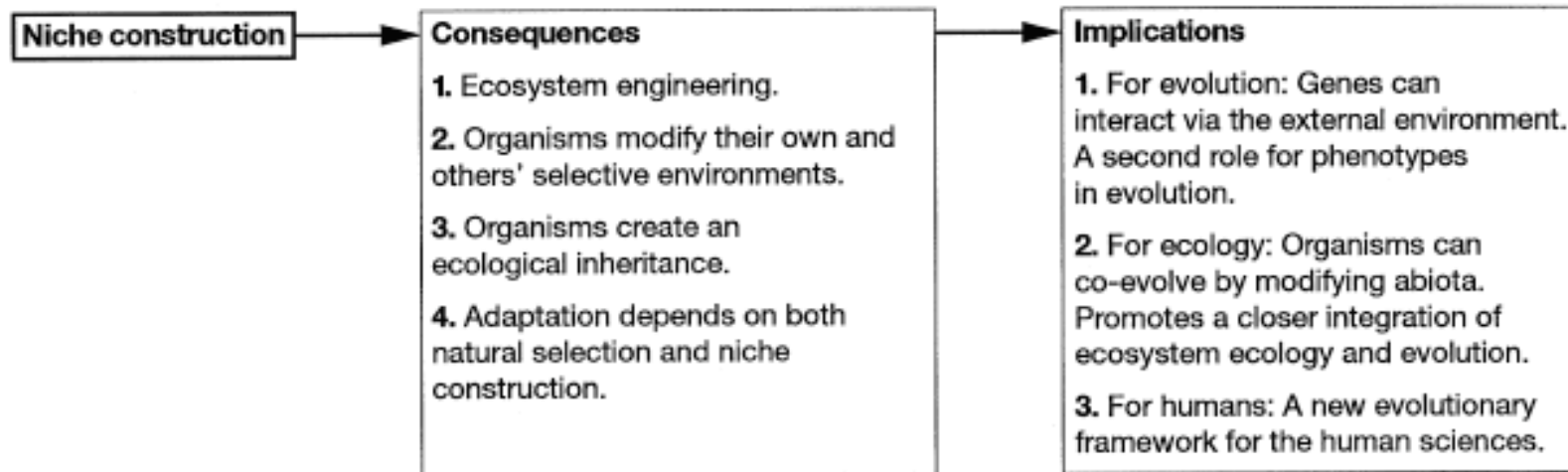


FIGURE 1.1. The consequences of niche construction and their implications for evolutionary theory, ecology, and the human sciences.

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PERSPECTIVE:  
SEVEN REASONS (NOT) TO NEGLECT NICHE CONSTRUCTION

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1. NC is not prevalent
2. The NC perspective is not tractable
3. NC is not a process
4. NC is a mere effect of natural selection
5. NC does not change our understanding of evolution in any fundamental way
6. NC does not bring about adaptation
7. NC is not a unified phenomenon



## **Construcción de nicho o fenotipo extendido**

Para muchos biólogos evolucionistas, las construcciones realizadas por los organismos es una forma adicional que tienen los genes de asegurar su propagación a generaciones futuras. Son parte de su fenotipo, pero extendido.

