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In contrast, evolvability

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refers to the capacity for heritable and selectable phenotypic change. More thorough descriptions of robustness and evolvability can be found in Appendix 1. Robustness and evolvability are vital to the persistence of life and their relationship is vital to our understanding of it.

**Degeneracy: a link between**

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In Robustness and Evolvability in Living Systems, Andreas Wagner attempts to provide a conceptual framework for understanding robustness in biological systems.

**Robustness from top  
to bottom | Nature**  
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Understanding the relationship between robustness and evolvability is key to understand how living things can withstand mutations, while producing ample variation that leads to evolutionary innovations. Mutational robustness and evolvability, a system's ability to produce heritable variation, harbour a paradoxical



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Evolvability and  
robustness are both  
thought essential for  
the origin and  
maintenance of  
complex, well-adapted  
organisms (Conrad,  
1990, Kauffman, 1993,  
Gerhart and Kirschner,  
1997, Wagner, 2005),  
but these two  
properties conflict as

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evolvability depends  
on the ability to  
generate new  
potentially adaptive  
phenotypes through  
mutation while  
robustness depends on  
the ability to maintain  
the same ...

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Robustness and  
evolvability are  
essential properties to  
the evolution of

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biological networks. To determine if a biological network is robust and/or evolvable, it is required to compare its ...

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is the robustness of  
organisms to change

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itself a consequence of past evolution? How does it affect evolvability, the potential for future evolution? These are some of the key questions I will address here. A biological system is robust if it continues to function in the face of perturbations. This is the working definition of robustness I ...

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