

# Robustness And Evolvability In Living Systems Princeton Studies In Complexity

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## **Robustness And Evolvability In Living**

All living things are remarkably complex, yet their DNA is unstable, undergoing countless random mutations over generations. Despite this instability, most animals do not grow two heads or die, plants continue to thrive, and bacteria continue to divide. Robustness and Evolvability in Living Systems tackles this perplexing paradox. The book explores why genetic changes do not cause organisms to fail catastrophically and how evolution shapes organisms' robustness.

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Robustness of a biological system is the persistence of a certain characteristic or trait in a system under perturbations or conditions of uncertainty. Robustness in development is known as canalization. According to the kind of perturbation involved, robustness can be classified as mutational, environmental, recombinational, or behavioral robustness etc. Robustness is achieved through the combination of many genetic and molecular mechanisms and can evolve by either direct or indirect selection.

## **Robustness (evolution) - Wikipedia**

This is a well written monograph on two fundamental but often contradictory properties of living entities: evolvability and robustness. The text gives multiple examples in which a system is robust (sort of dynamically stable) in one respect while retains a window of opportunities for change in another respect.

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Robustness and Evolvability in Living Systems. Andreas Wagner. Paperback ISBN: 9780691134048 \$67.5/£56. Shipping to:

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Robustness affects evolvability in different ways Biological organisms and computer programs are both encoded by a string of characters: DNA in organisms, binary code in programs. In biological systems, random mutations to DNA sequences are the fundamental source of long-term evolutionary adaptation.

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Factors affecting evolvability via robustness. Different genetic codes have the potential to change robustness and evolvability by changing the effect of single-base mutational changes. Exploration ahead of time. When mutational robustness exists, many mutants will persist in a cryptic state. Mutations tend to fall into two categories, having either a very bad effect or very little effect: few mutations fall somewhere in between.

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