



Not by Design: Retiring Darwin's Watchmaker

By John Reiss



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More than two centuries ago, William Paley introduced his famous metaphor of the universe as a watch made by the Creator. For Paley, the exquisite structure of the universe necessitated a designer. Today, some 150 years since Darwin's *On the Origin of Species* was published, the argument of design is seeing a revival. This provocative work tells how Darwin left the door open for this revival--and at the same time argues for a new conceptual framework that avoids the problematic teleology inherent in Darwin's formulation of natural selection. In a wide-ranging discussion of the historical and philosophical dimensions of evolutionary theory from the ancient Greeks to today, John Reiss argues that we should look to the principle of the *conditions for existence*, first formulated before *On the Origin of Species* by the French paleontologist Georges Cuvier, to clarify the relation of adaptation to evolution. Reiss suggests that Cuvier's principle can help resolve persistent issues in evolutionary biology, including the proper definition of natural selection, the distinction between natural selection and genetic drift, and the meaning of genetic load. Moreover, he shows how this principle can help unite diverse areas of biology, ranging from quantitative genetics and the theory of the levels of selection to evo-devo, ecology, physiology, and conservation biology.



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Editorial Review

Review

"An important book that should be widely read and discussed."

(*American Scientist* 2010-03-01)

"An engaging read and is sure to stimulate much-needed discussion about the details of current evolutionary concepts."

(Anne-Marie C. Hodge *Integrative & Comparative Bio (Sich)* 2009-09-17)

"[Not by Design] offers a rare synthesis of insights from quite diverse fields. . . . A good place to make relevant discoveries."

(*Metapsychology Online Review* 2012-05-15)

"Well documented."

(James D. Williams *Biological Conservation* 2010-04-08)

"[This book] offers a rare synthesis of insights from quite diverse fields."

(Christina Behme *Metapsychology Online Review*)

From the Inside Flap

"Charles Darwin described natural selection in two ways: devoid of purpose or direction and as a teleological agent sorting through heritable variation. Evolutionary biologists today repeat Darwin's divergent rhetoric. In this fine book, John Reiss helps us to rid all teleology from evolutionary biology."—William Provine, Cornell University

"Anyone who thinks they understand how natural selection works as an evolutionary process ought to read this book. You do not need to agree with Reiss to benefit from his ideas."—Günter Wagner, Yale University

About the Author

John O. Reiss is Professor of Zoology at Humboldt State University.

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