



# **The Ontogeny of Information: Developmental Systems and Evolution (Science and Cultural Theory)**

*Susan Oyama*

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*The Ontogeny of Information* is a critical intervention into the ongoing and perpetually troubling nature-nurture debates surrounding human development. Originally published in 1985, this was a foundational text in what is now the substantial field of developmental systems theory. In this revised edition Susan Oyama argues compellingly that nature and nurture are not alternative influences on human development but, rather, developmental products and the developmental processes that produce them.

Information, says Oyama, is thought to reside in molecules, cells, tissues, and the environment. When something wondrous occurs in the world, we tend to question whether the information guiding the transformation was pre-encoded in the organism or installed through experience or instruction. Oyama looks beyond this either-or question to focus on the history of such developments. She shows that what developmental “information” does depends on what is already in place and what alternatives are available. She terms this process “constructive interactionism,” whereby each combination of genes and environmental influences simultaneously interacts to produce a unique result. Ontogeny, then, is the result of dynamic and complex interactions in multileveled developmental systems.

*The Ontogeny of Information* challenges specialists in the fields of developmental biology, philosophy of biology, psychology, and sociology, and even nonspecialists, to reexamine the existing nature-nurture dichotomy as it relates to the history and formation of organisms.

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