



# **The Microcosm Within: Evolution and Extinction in the Hologenome**

*William B. Miller Jr*

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## **The Microcosm Within: Evolution and Extinction in the Hologenome** William B. Miller Jr

You are not what you think you are. New research is transforming how we understand ourselves—from a singular 'self' to a vast cooperative, co-dependent and collaborative network of cellular environments and ecologies—a microcosm within. From this unique perspective, a startling revision of evolutionary theory unfurls. Sharply reasoned and certain to be controversial, *The Microcosm Within* takes its readers on a sweeping scientific journey that reorganizes our thinking about our biological selves, evolution, and extinction. Darwin has dominated evolution for over a century. But many issues remain puzzling—What is the origin of self-sacrifice? Does natural selection really account for evolution? Why is homosexuality commonplace in the animal kingdom? Why were the arms of *Tyrannosaurus Rex* so small? Why do some species go extinct yet others endure? *The Microcosm Within* offers intriguing and profound answers by exploring our extraordinary world of cellular consciousness, connections, and collaboration. Current research has unexpectedly revealed that all cells and microbes have elemental cognition and a previously unappreciated capacity for discrimination and awareness. From these faculties, cooperative natural genetic engineering is enabled; and it is from this starting point that biological complexity evolves. *The Microcosm Within* illuminates how immunological factors dominate evolution and extinction. Biology and evolutionary theory will never be the same. PRAISE FOR THE MICROCOSM WITHIN "The Microcosm Within is exemplary of the burgeoning new concepts in Evolution Theory that eschew Darwinism. It offers an alternative way of thinking about why life formed on Earth that is consistent with modern science. By focusing on our newly acquired knowledge about our symbiotic relationships with bacteria and viruses, it encourages us to transition from Darwin's combative perspective to a much deeper and informed interrelationship between life forms. His perspective will ultimately give rise to a truly New Synthesis based on our origins as species." --Dr. John S. Torday, Professor of Pediatrics and Ob/Gyn, Harbor-UCLA Co-author, Evolutionary Biology, Cell-Cell Communication and Complex Disease Founding member, Evolutionary Medicine Program, UCLA

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