

An evolutionary biologist's view of reality

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Abstract

The practice of evolutionary biology requires a specific view of the world, different to the reductionism of chemistry, physics, and genetic engineering. Central to this view is the recognition that nature consists of complex, variable, living entities, interrelated into systems that undergo continuing change through time. Therefore the objective of an evolutionary biologist is not the description of patterns or properties of isolated objects, but an understanding of a dynamic process by which life continues in its potentially infinite variety of forms.

The scientific worldview as presented by educational institutions and the media during the last two centuries has been dominated by discoveries in the "hard sciences" - physics, chemistry, astronomy. Recently molecular biology was included, and this is essentially a branch of chemistry and physics. This worldview is enhanced by the practical applications of engineering, accountancy, warmongering and technologised medicine. Even today, a knowledge of biology is considered less essential for an average member of society than knowledge of computers. This "scientific" worldview proves to be highly defective when applied to solving the psychological problems of individuals and the socio-political conflicts of the modern world (a recent example: Matare 1999). Old religious and other idealistic solutions still seem to prevail in these spheres and are sometimes portrayed as contrasting with the scientific perspective (Farber 1998).

Here I present yet another point of view based on 25 years of research and teaching of evolutionary biology. It is a personal view that is intended to serve as an example of how an active study of biology may change the way we see the world.

The impotence of "scientific" solutions to human problems results from most people's inappreciation of variability as an essential ingredient of natural phenomena. Evolutionary biology constructed an alternative, but no less scientific, intellectual framework over a century ago. It is, however, still poorly understood by the majority of scientists, some molecular biologists included, and even less so by the general public. In biology it has been largely replaced in the last generation by an approach similar to engineering, in which the objective of the biologist's work is to control and manipulate life by direct interference with molecular processes inside the cells (Pauly 1987).

Theoretical biology hitherto busied itself with analyses of the phenomenon of life itself, but not venturing beyond its confines. However, the definition of life becomes blurred as we learn more about the world, while the interactions of biology with other disciplines are expanding to the extent that biology may be considered on a par with such noble disciplines as physics and mathematics. Therefore the views and experiences of biologists will influence the way scientists and societies think and thus will contribute to the formulation of new theoretical standpoints.

Characteristically, a biologist approaches reality from the point of view of a comfortably sized, but complex phenomenon of life rather than from that of the grandiose mechanics of the universe, or the enormous energy stores inside an atom. Life is a series

Purpose In A World Of Chance A Biologists View

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