

Review of: "Femmes finales: natural selection, physiology, and the return of the repressed"

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Potential competing interests: No potential competing interests to declare.

The manuscript has well reviewed historical opinion about role of final cause in the study of biology.

Any theory of science must be established on the basis of specific properties of a matter (or thing) and thus the scientific theory on the basis of final cause of biology cannot be established.

But it does not imply that research of final cause of biology is nonsense. My opinion is that such study is helpful for us to define the validation domain, logic flaw of scientific theories.

I disagree the opinion that the publication of the Origin of Species in 1859 which completed the ejection of final causes from biology. A more precise statement is: without considering final cause, Darwin had successfully formulated his theory on basis of natural selection. Darwin have kicked final cause out of his theory. This achievement of Darwin either supports nor deny the final cause. This fact only indicated an idea, and it may be the actual thought of Darwin, that other theory on the basis of final cause should be established in the future and it is the task of another person.

In fact, Darwin does not study the physical foundation of natural selection. The survival ability arises from the better functioning of individual. The cat is more flexible and agile thus, more species of cat existed in the world. Is better functioning the final cause of biology?

In my opinion the final cause does not exist in field of experimental science studied by scientists of USA for they only, at least present, study isolated properties of biomaterials and final cause of biology exists in field of complex connections among these biomaterials. The most active functioning, better regulatory fashion of bio-signaling activity, more offspring are final causes of biological evolution. In enzymology, they are the catalysis power and regulatory fashion.

The logic foundation of Aristotle is rather simple, and new development of Qinyi Zhao about the system logic [logic cycle among final cause (results), effective cause (conditions) ?]. (Zhao, Q., 2011. Nonalgorithmicity and algorithmicity of protein science. Adv. Biosci. Biotech. 2, 340-346.) may be helpful to author's thought.