10
Aims and Limits of Explaining and Understanding

The scientific terms of "explanation" are now commonly misunderstood in evolution. They have to be discovered, and their discovery involves not testing the theories, but explaining and clarifying the kinds of studies and work the right conceptual framework ... characteristics are not best explained by theories in deeper levels, in a way which shows their relationships to possible outcomes." (Charles Lyell, *The Expression of Emotion in Relation to Evolution*, Cambridge University Press, 1971, p. 1626 [1871])

Integration, Models, and Hypotheses

"Integration" in human institutions represents and formalizes those relationships that are appropriate between individuals, in terms of the limitations of the social and scientific task. It shares with other concepts of personal propriety and of acting at an ethical level, and with the concept of "duty" in particular, the notion of a standard appropriate to the task. It differs from other concepts of propriety and of acting at an ethical level in that the standard is not set by the requirements of a single person but by the requirements of a group and of the task to be done