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One of the most important goals for this chapter and the others in the series was to clarify our terms and concepts so that we are faithful to what we know is true. We know. To draw on popular culture, the film character Iggy Pop once said, "I know, saying sure is this up well." "You keep using that word, I do — I think it means what you think it means" (*The Pickwick Papers*, 1997). This volume contributed by Michael J. Michael is a call to all biologists to consider if they really know what they mean when using or discussing one of our most central ideas — Darwin's theory of natural selection. From different vantage points, Michael shows how easy it is to use natural selection and, simultaneously, how hard it can be to directly assess particular cases. Readers are guided through carefully laid-out arguments that test the applicability of natural selection and put a spotlight on strengths and weaknesses, encouraging possible usage. In this way, *Evolution by Natural Selection: Confusion, Evidence, and the Gap* is a valuable contribution that fills the mark intended for the *Species and Systematics* series.

Kipling Will
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