

Time (billions of years ago) **FIGURE 4.4.** Steps in the origin of life.

4.2

4.5

4.4, modified from Joyce G.F., *Nature* 418: 214–221, © 2002 Macmillan, www.nature.com

~4.0

~3.8

~3.6

3.6-present

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4.2 - 4.0