



COVER The cover image symbolizes the host of genetic studies and field observations that have shed light on the mechanisms that drive Darwinian evolution. A model DNA molecule is emblazoned with species representing key advances of 2005, including a stickleback fish; the influenza virus; a European blackcap; a chimpanzee; a fruit fly; and three members of *Homo sapiens*, including Charles Darwin himself. [Photo illustration: Chris Bickel and Kelly Buckheit; images: C. Goldsmith/CDC; W. A. Cresko; David Scharf/Peter Arnold; Andy Bright; Jupiter Images]