Cover: A passion vine butterfly, Heliconius erato petiverana, feeding on a flower (left). These butterflies have sexually monomorphic wing colors and use color vision to forage and choose mates. Despite the importance of colorful objects to Heliconius, key features of their color vision have remained uncharacterized. McCulloch et al. (pp. 2377-2387) unexpectedly found that adult females have two kinds of UV photoreceptor (bottom right: green, magenta) while males only have one (top right: magenta), and both sexes have a red-sensitive photoreceptor. This eye dimorphism suggests sex-specific selection for color detection in the ultraviolet. Photo credit: Harry Hull, Ill and Kyle J. McCulloch.

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