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Orderly arrangement of the photoreceptor mosaic in the compound eye of the house fly revealed by epifluorescence microscopy. As a result of illumination, preselected photoreceptor cells have captured a yellow fluorescent dye which stains each cell down to its synaptic terminal. Present evidence suggests that illumination of these receptors provokes an "induced endocytosis" of the dye which was added to the extracellular space. See page 851. [Michael Wilcox and Nicolas Franceschini, Institut de Neurophysiologie et Psychophysologie, Centre National de la Recherche Scientifique, Marseille, France]