

FIGURE 13-1 Illustration of excitation-light path in wide-field epifluorescence or confocal (*A*) microscopy and two-photon excitation microscopy (*B*). In (*A*), the illumination occurs throughout the field of view, whereas in two-photon-excitation fluorescence microscopy, it is limited to a spot at the focal plane of the infrared laser beam.

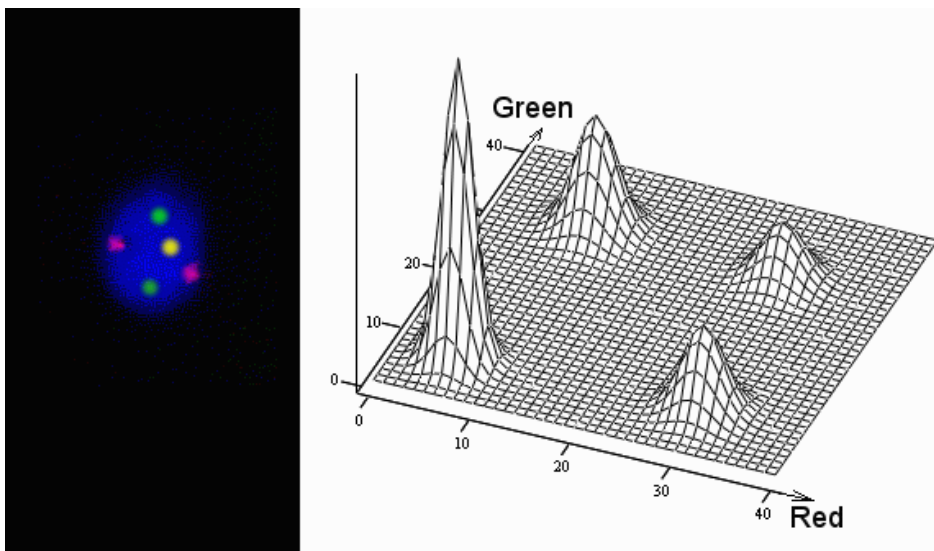


FIGURE 14-4 Use of the two-color histogram (a simulation). The cell at the left has two red and two green dots, and one yellow dot where the red and green fluors overlap. The red-versus-green histogram shows peaks corresponding to background, red dots, green dots, and the yellow dot. The volume under each peak is the total area of the corresponding dots.