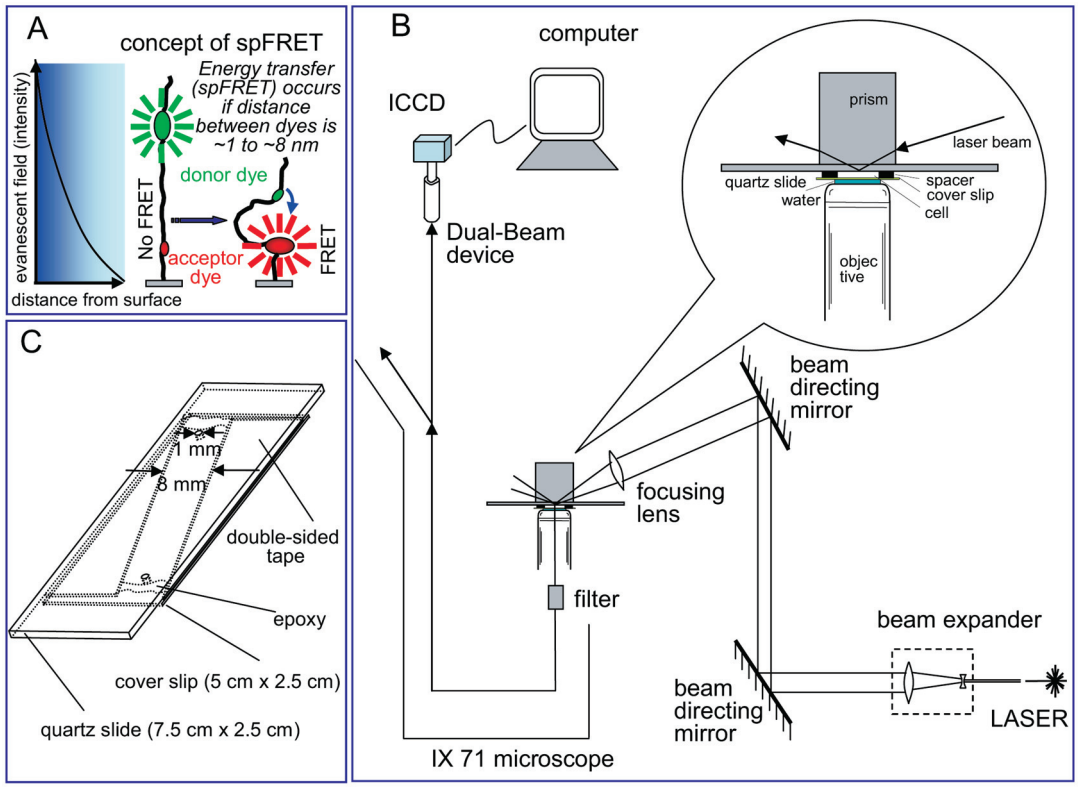

FIGURE 2. (*A*) Concept of spFRET. Left schematic shows the exponential decay (depicted by curved line) of the intensity of the evanescent field as a function of distance from surface. Right schematic depicts a single molecule (protein or DNA molecule) containing two dyes, a donor dye and an acceptor dye. In the initial configuration of the single molecule, the two dyes are too far away for energy transfer; if there is a conformational transition in the molecule that brings the donor dye and the acceptor dye within 1–8 nm of each other, FRET occurs. (*B*) Schematic of the evanescence-field fluorescence microscope (EFFM). (*C*) Schematic of flow cell construction.

Protein–Protein Interactions: A Molecular Cloning *Manual*, 2nd Ed., © 2005 by Cold Spring Harbor Laboratory Press, Chapter 23, Figure 2.