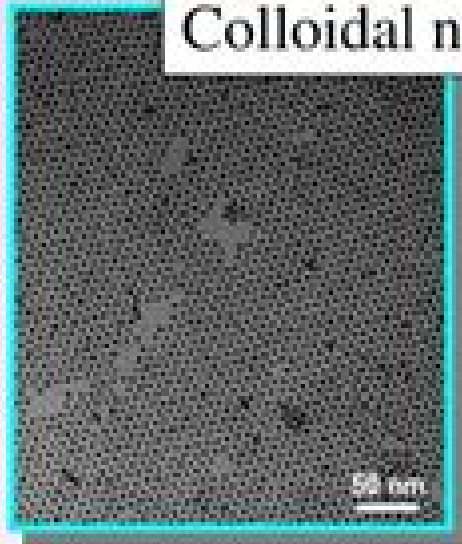


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Colloidal nanocrystals



~ few nm

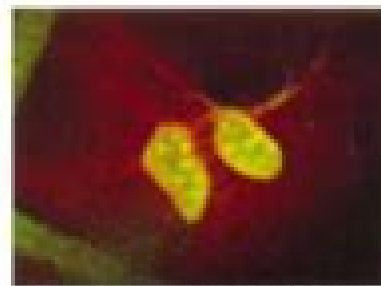
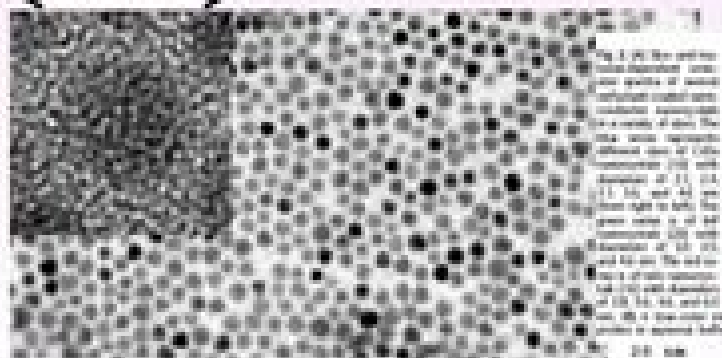
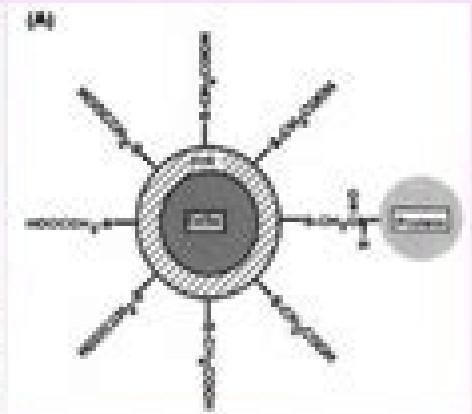


Fig. 3. Cross section of a dual-labeled sample stained with a biotinyl 555-FITC laser-scanning confocal microscope with a 40 \times of 1.3 numerical aperture objective. The mouse 3T3 fibroblasts were grown and prepared as described in [27]. A false-colored image was obtained with 488-nm excitation, with simultaneous fluorescence detection (488/20-nm FWHM; 555/15-nm filter for the green, and a 565-nm long pass filter for the red). Image width: 54 μ m.



Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection

Warren C. W. Chan and Shoung Ho Park

Highly luminescent semiconductor quantum dots (QDs) with surface-capped carboxylic acid groups have been covalently coupled to biomolecules for use in ultrasensitive biological detection. In comparison with organic dyes such as rhodamine, this class of luminescent labels is 20 times as bright, 100 times as stable against photobleaching, and one-third as wide in spectral bandwidth. These nanometer-sized conjugates are water-soluble and biocompatible. Quantum dots that were labeled with the protein transferin underwent receptor-mediated endocytosis in cultured HeLa cells, and those dots that were labeled with immunoglobulins recognized specific antibodies or antigens.

25 SEPTEMBER 1998 VOL 281 SCIENCE



Optical Properties Of Semiconductor Nanostructures

PT Brinkman



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