

Title (en)  
DETECTION OF CANCER USING CELLULAR AUTOFLUORESCENCE

Title (de)  
KREBSERKENNUNG MITTELS ZELLULÄRER AUTOFLUORESZENZ

Title (fr)  
DETECTION DE CANCERS A L'AIDE DE L'AUTOFLUORESCENCE CELLULAIRE

Publication  
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Application  
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Abstract (en)  
[origin: WO9965394A1] Apparatus and methods especially useful for detection of cancer using cellular autofluorescence are described. In one embodiment, an apparatus (10) includes a source (12) of white light which produces a beam of light transmitted to a tissue via one group (18) of optic fibers in a two-way fiber optic bundle (22). The two-way fiber optic bundle (22) may be passed through a conventional endoscope. The beam of light excites the tissue and results in an emission of cellular autofluorescence at a wavelength of about 330 nm. A light sample from the tissue is directed back through the two-way fiber optic bundle (22) and then passes through a photodetector (36). The photodetector (36) produces a signal, representative of the intensity of cellular autofluorescence, which can be passed to a monitor (38) as a wave form or meter response. The apparatus may further comprise a charge-coupled device and video imaging technology to produce real time video images of tissue being examined.

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