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Terahertz endoscopic imaging for colorectal cancer detection: Current status and future perspectives

Pallavi Doradla, ³Cecil S Joseph, Robert Giles

Abstract

Terahertz (THz) imaging is progressing as a robust platform for myriad applications in the field of security, health, and material science. The THz regime, which comprises wavelengths spanning from microns to millimeters, is non-ionizing and has very low photon energy: making it inherently safe for biological imaging. ¹³Colorectal cancer is one of the most common cause of death in the world, while the conventional screening and standard of care yet relies exclusively on the physician's experience. Researchers

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