Shining a Spotlight on Cancer: The Role of Nanotechnology in Targeted Oncological Treatment

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What if fighting cancer could be as simple as turning on a light switch?

Recent advances in nanotechnology led to a discovery of a new approach that uses LED light and nanoparticles to attack cancer cells while leaving healthy cells untouched. In laboratory studies, this light-activated strategy wiped out nearly all skin cancer cells and half of colorectal cancer cells in just 30 minutes, without damaging normal skin tissue. The secret lies in microscopic tin oxide nanoflakes designed to respond to specific wavelengths of light. When activated, they deliver a precise, and localized therapy. This novel discovery offers a glimpse of cancer treatment that could be safer, more targeted, and potentially more accessible than many options available today like chemo or radiation. Is this the future of cancer therapy? What does science really say and how close are we to seeing this used in patients?

Watch our video to explore how light and nanotechnology could reshape cancer treatment. Shining a spotlight on Cancer

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