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Hyperspectral Imaging of Tumors Using Gold Nanoshells

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Poster Presentation P21

HYPERSPECTRAL IMAGING OF TUMORS USING GOLD NANOSHELLS

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Pancreatic cancer is one of the most deadly types of cancer, with a five-year survival rate of only 5.0% if all stages are taken into account. Surgical treatment improves the five-year survival rate to 15-25% in patients without metastatic disease, provided negative margins are obtained. As nanoshells preferentially accumulate in certain types of tumors, we aim to develop an imaging system that could be used during surgery to expose positive margins, the boundaries of which cannot reliably be seen with the naked eye. Here, we report progress towards developing a hyperspectral imaging system for the visualization of gold nanoshells.