

Tissue Thermal Properties

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Cancerous cells multiply faster increasing the metabolic rates around them, in addition the blood flow pattern and perfusion within cancerous tissue is different from that in a healthy tissue. This causes temperature differences that can be detected by infrared thermal imaging. Thermal properties of tissues can also be measured using their infrared emission signature. New type of diagnostics that can lead to early detection and treatment of certain types of cancers can result from the work in this project.

Tissue temperature measurements

