



Literature research: Heat flux sensing for the detection of infection on implantable systems

Motivation

On cardiovascular implants, the detection of implant infection is often obstructed by difficult access to information at the implant surface, impairing efficient treatment. Precision medicine using sensors at the implant surface could thereby aid early diagnosis of localized infections. Literature research supports the potential of heat flux changes for the localized detection of implant infection

Project

Literature research on the specific topic of applications of heat flux sensors/temperature sensors in research and industry. Gaining an overview over resolution limits, applications, and long-time performance. Placing this knowledge in perspective of the possible application in medicine.

Your Task

Learn how to properly read and extract information from published literature. Collecting and visualizing this information in a poster and a presentation. Overall, it is also an opportunity for you to learn to structure your own research and work independently.



Figure 1: Model system with integrated sensor

Your Profile

Bachelor student looking for a studies project in the field of micro and nanosystems, with a specific interest in medical applications.

Contact

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