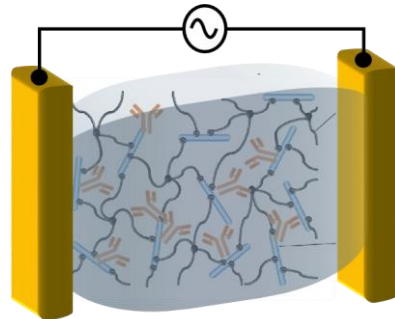




Master Thesis

Biocompatible sensors for in vivo measurement of physiological parameters

Development of highly biocompatible sensors that withstand the harsh conditions of biofluids



Real-time monitoring of physiological parameters is essential for point-of-care testing, avoiding the invasivity of continuous sample extraction. The complexity of body fluids supposes a limitation to sensor performance and the material composition of the sensor itself may represent a health threat for patients as well. In this thesis the aim is to develop biosensors capable of presenting excellent performance in body fluids without representing any harm, envisioning their use for in vivo applications. The work will consist on the fabrication and surface modification of the sensors as well as the analysis of their sensing performance and stability.

The **research plan** will include:

1. Fabrication and modification of the sensors.
2. Analysis of biosensor response in buffer and biofluids.
3. Performance of stability and degradation tests

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