

# Cardiac Physiology

*The lab has a strong background in the development and utilisation of mathematical and computational models of various aspects of cardiac physiology. This encompasses the multi-scale and multi-physics nature of cardiac physiology.*

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## 1. Mathematical modelling of cardiac cellular electrophysiology

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We are currently developing mathematical models of cellular electrophysiology to investigate the changes occurring as cardiac myocytes become ischemic and then undergo reperfusion. Our model descriptions are based on CellML allowing for the modular description and validation of sub-models which can easily be linked together into whole cell models.