The role of transmural electrophysiology in determining cardiac excitability and pro-arrhythmic status.

Prof. Godfrey Smith
Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK

Conduction across the wall of the ventricle is a key event in the normal cardiac cycle but the underlying electrophysiology is poorly studied. The seminar will describe the use of optical dyes and advanced imaging systems to examine how LV transmural conduction is affected by post-infarction remodelling leading to increased likelihood of conduction block and VF. RV transmural conduction abnormalities are considered in the context of Brugada-like models of cardiac pathology.

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