

Professor Godfrey L. Smith, PhD

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Education

1975-1979 B.Sc., (Physiology) Glasgow University

1979 - 1982 PhD, Glasgow University

Employment

1982 - 1983 Research Associate, Physiology and Biophysics, University of Texas

1983 - 1988 Research Associate, Physiology, University College London,

1988 - 1989 Research Fellow, Physiology, University of Glasgow

1989 - 1992 Lecturer in Physiology, University of Glasgow.

1992 - 1995 Senior lecturer in Physiology, University of Glasgow.

1995 - 1998 Reader in Physiology, University of Glasgow.

1998 - Professor of Cardiovascular Physiology (personal chair)

Research grants and awards (selection from last 5 years):

2009 - 2012: British Heart Foundation; Co-investigator; "Atrial remodelling of calcium handling and electrophysiology in heart failure"

2010-2011: Scottish Enterprise Project "CLYDE" Spin-Out, Principal Investigator.

2010-2013: British Heart Foundation; Co-investigator; "Cardiac CaMK in heart failure and exercise training"

2011 - 2014: British Heart Foundation; Principal investigator; "Cellular basis for alternating T-wave morphology in isolated rabbit hearts"

2009 - 2015: FP7; Principal investigator; EUTrigTreat - Identification and therapeutic targeting of common arrhythmia trigger mechanisms:

2013 - 2016: British Heart Foundation; Co-investigator; "Electrophysiological basis for atrial fibrillation"

Supervision of doctoral and postdoctoral fellows: Supervised 26 PhD students and 21 postdoctoral fellows.

Research profile:

Examination of the subcellular processes involved in excitation-contraction coupling of cardiac muscle using biophysical and biochemical techniques. Methodologies include fluorescence microscopy, electrophysiology and confocal imaging.

Editorial boards/Journal reviews/Grant review boards:

Editorial board member of Journal of Molecular and Cellular Cardiology and Biophysical Journal; reviewer for a number of scientific journals, and president of ESC Cellular Cardiac Electrophysiology Working Group.

Publications: 175 publications; Selected publications listed below:

1. Myles RC, ...**Smith GL**. Alternans of action potential duration and amplitude in rabbits with left ventricular dysfunction following myocardial infarction. *Journal of Molecular and Cell Cardiology*, 2011, 50(3):510-21.

2. Caldwell JC, ...**Smith GL**. (2012) Amplitude changes during ventricular fibrillation: a mechanistic insight. *Front Physiol*. 2012;3:147.

3. Lu X, ... **Smith GL**, Bers DM. Measuring local gradients of intramitochondrial [Ca(2+)] in cardiac myocytes during sarcoplasmic reticulum Ca(2+) release. *Circ Res*. 2013;112(3):424-31.

4. Kelly A, ... **Smith GL**. Subepicardial action potential characteristics are a function of depth and activation sequence in isolated rabbit hearts. *Circ Arrhythm Electrophysiol*. 2013;6(4):809-17.

5. **Smith GL**, MacQuaide N. The direct actions of flecainide on the human cardiac ryanodine receptor: keeping open the debate on the mechanism of action of local anesthetics in CPVT. *Circ Res*. 2015;116(8):1284-6.