

## Programme - Friday, 1<sup>st</sup> February 2019

**14.00 Registration**

**14.25 Welcome and Introductory Remarks**  
by President, Royal College of Physicians of Edinburgh

### Session 1 - A future foretold

Chair: Dr Susan Pound, Vice-President, RCPE

**14.30 Healthcare in the 4th industrial revolution**

Professor Andrew Morris, Professor of Medicine and Vice-Principal, Data Science, University of Edinburgh

\*the size of the challenge \*the tools for the job \*the prospect for change

**15.00 The determinants of disease - lessons from the UK Biobank**

Professor Cathie Sudlow, Chief Scientist, UK Biobank

\*the size of the resource \*the impact to date \*the prospects for treatment and cure

**15.30 Coffee / tea and poster viewing**

### Session 2 - To repair, renew and replace

Chair: Dr Conor Maguire, Director of Education, RCPE

**16.00 Tissue regeneration and repair - from the petri dish to the bedside**

Professor Sue Kimber, Professor of Stem Cells and Development, Faculty of Biology Medicine and Health, University of Manchester

\*stem cells \*clinical cell-based therapy \*future of cell based therapy

**16.30 Extremes of human physiology - sorting out adaptive and maladaptive processes**

Dr Kenneth Baillie, Wellcome Beit Fellow, Roslin Institute, University of Edinburgh

\* high altitude adaptation \* understanding critical illness \*potential therapeutic targets

**17.00 New approaches to the management of valvular heart disease**

Dr Marc Dweck, BHF Reader in Cardiology and Consultant Cardiologist, University of Edinburgh

\*what does the future hold? \*novel percutaneous techniques \*optimising the timing of intervention \*medical therapy

**17.30 Parkinson's - from the clinic to lab to clinic**

Professor Roger Barker, Professor of Clinical Neuroscience, University of Cambridge

\*disease heterogeneity and implications for treatment \*novel therapies

**18.00 Hi -Tea and poster viewing**

### Session 3 - To boldly go .....

Chair: Professor Derek Bell OBE, President, RCPE

**18.45 STANLEY DAVIDSON MEDAL LECTURE**

**The prospects for personalised medicine**

Professor Sir Munir Pirmohamed, David Weatherall Chair of Medicine and NHS  
Chair of Pharmacogenetics, Institute of Translational Medicine, University of  
Liverpool

\*current paradigms \*the genetic therapeutic interface \*the abolition of adverse effects

**19.30 Lighting up the lung**

Professor Kev Dhaliwal, Professor of Molecular Imaging and Healthcare Technology,  
Centre for Inflammation Research, University of Edinburgh

\*interdisciplinary team science \*translational biophotonics \*next-generation interventional medicine

**20.00 Coffee / tea**

**Session 4 - Future threats**

Chair: Dr Peter Reid, Assistant Director (Symposia), RCPE

**20.30 How to prepare for the next pandemic**

Sir Michael Jacobs, Consultant and Honorary Senior Lecturer in Infectious Diseases,  
Royal Free Hospital, London

\*virus evolution \*lessons from the past \*future planning

**21.00 The superbug and antibiotic resistance**

Dr Susan Hopkins, Consultant in Infectious Diseases and Microbiology, Public  
Health, England

\*mechanisms of resistance \*current threats \*strategies for prevention

**21.30 Tackling the ageing demographic for the future**

Professor Sarah Harper, Professor of Gerontology, University of Oxford

\*the challenges of longevity: medical, social and psychological

**22.00 Closing remarks**

Dr Tom Mackay, Vice-President, RCPE