

'Coming of Age: The Legacy of Dolly at 20'

Friday 2nd September 2016

The Roslin Institute Auditorium, University of Edinburgh,
Easter Bush, Midlothian, EH25 9RG, Scotland, UK

9:00 – 9:30 Coffee & Registration

9:30 Welcome Address: Prof Sir Tim O'Shea, Principal of the University of Edinburgh

Session 1: 'Keynote lecture'

9:40 Chair Session Intro, **Prof David Hume**, Director, The Roslin Institute

9:45 Prof Sir Ian Wilmut, MRC Centre for Regenerative Medicine, University of Edinburgh, UK

'Dolly the first clone of an adult animal'

10:15 – 10:40 Coffee Break

Session 2: 'From Dolly to Engineered Farm Animals'

10:40 Chair Session Intro, **Prof Bruce Whitelaw**, The Roslin Institute, University of Edinburgh

10:45 Prof Goetz Laible, AgResearch, Ruakura, New Zealand:

'Tailoring milk composition for human needs with progressively improved genetic engineering strategies'

11:15 Dr Chris Proudfoot, The Roslin Institute, University of Edinburgh:

'Editing the livestock genome'

11:35 Dr Lissa Heron, The Roslin Institute, University of Edinburgh:

'Eggcellent therapeutics: chicken bioreactors for the production of pharmaceutical proteins'

11:55 Prof Angelika Schnieke, Technical University Munich, Germany:

'The sheep got the glory but now the pigs are doing the work'

12:30 – 14.00 Lunch with posters and industry exhibition



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Session 3: 'Alternatives to cloning for altering cell identity'

14:00 Chair Session Intro, **Prof Ian Chambers**, MRC Centre for Regenerative Medicine, University of Edinburgh

14:05 Prof Shinya Yamanaka, Center for iPS Cell Research and Application, Kyoto University, Nobel Prize Laureate Physiology or Medicine 2012):

'Induction of Pluripotency by Defined Factors'

14:35 Dr Abdenour Soufi, MRC Centre for Regenerative Medicine, University of Edinburgh:

'Mechanistic Insights Into Cell Fate Conversion'

14:55 Dr Sally Lowell, MRC Centre for Regenerative Medicine, University of Edinburgh:

'Unpredictability and variability during differentiation of pluripotent cells'

15:15 Prof Marius Wernig, Stanford University, USA:

'Direct reprogramming between somatic lineages'

15:45 – 16:15 Coffee Break

Session 4 – 'Taking stem cell science towards the clinic'

16:15 Chair Session Intro, **Prof Stuart Forbes**, MRC Centre for Regenerative Medicine, University of Edinburgh

16:20 Prof Paul Tesar, Case Western Reserve University, Cleveland, Ohio, USA:

'Chemical control of endogenous stem cells for treatment of myelin disorders'

16:50 Prof Clare Blackburn, MRC Centre for Regenerative Medicine, University of Edinburgh:

'A Regenerative Approach to Rebuilding the Adaptive Immune System'

17:10 Prof Andrew Jackson, MRC Human Genetics Unit, Institute of Genetics and Molecular Medicine, University of Edinburgh:

'Microcephaly: a stem cell disorder?'

17:30 Prof Marc van de Wetering, Hubrecht Institute, Utrecht, Netherlands:

'Modelling cancer in Organoids'

18:00 Closing Remarks: **Prof David Hume**, The Roslin Institute, University of Edinburgh

Symposium Closing Reception until 19:00



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