

Mapping Stem Cell Innovation in Action: ESRC Stem Cell Initiative

Tuesday 19 September 2006
Room 6.13 James Clark Maxwell Building, King's College London

Shaping expectations: linking the lab and the clinic through stem cell therapy?

Introduction

This workshop is designed to encourage dialogue between different groups of researchers and others with an interest in the field of stem cell research and regenerative medicine. We are inviting around twenty speakers and participants from the academic fields of social science, medicine, biomedical science, and from a range of user groups. The four papers are short overviews designed to stimulate discussion with a diverse audience. Lunch, tea, and a wine reception will also promote informal networking and dialogue amongst the workshop participants.

12.15 - 13.00 Lunch and Registration

13.00 – 13.05 Welcome and Introduction

Professor Rick Trainor, Principal, King's College London

Findings from the project

13.05 - 13.30 **1. Stem cells, beta cells and islet transplantation: a view from social science**
Dr Steven Wainwright, Medical Sociology, King's College London

13.30 - 14.00 **2. The sociology of expectations and translational research**
Professor Mike Michael, Sociology of Science & Technology, Goldsmiths College

14.00 - 14.30 Discussion

14.30 - 15.00 Tea

Discussants

15.00 - 15.30 **3. Problematising prospects: expectations and stem cell science**
Dr Nik Brown, Sociology of Science & Technology, University of York &
Dr Paul Martin, Sociology of Science & Technology, University of Nottingham

15.30 - 16.00 **4. The bigger picture: mapping contributions from the ESRC Stem Cell Initiative**
Professor Andrew Webster, Sociology of Science & Technology, University of York

16.00 - 16.30 Discussion

16.30 - 18.00 Wine reception

Shaping expectations: linking the lab and the clinic through stem cell therapy?

Participants

1. Professor Mike Michael, Sociology of Science & Technology, Goldsmiths College London
2. Dr Steven Wainwright, Medical Sociology, King's College London
3. Dr Nik Brown, Sociology of Science & Technology, University of York
4. Dr Paul Martin, Sociology of Science & Technology, University of Nottingham
5. Professor Andrew Webster, Director ESRC Stem Cell Initiative, Sociology, York University
6. Dr Clare Williams, Medical Sociology, King's College London
7. Professor Alan Cribb, Public Policy & Bioethics, King's College London
8. Professor Bobbie Farsides, Bioethics, University of Sussex
9. Ms Catherine Arkley, Chief Executive, Children's Liver Disease Foundation
10. Professor Peter Jones, Beta Cell / Stem Cell Biology, King's College London
11. Dr Rosamund Scott, Law, Bioethics & Reproductive Technologies, King's College London
12. Professor Alan Petersen, Sociology, University of Plymouth
13. Professor Brian Salter, Political Science, University of East Anglia
14. Dr Matthew Wakelin, Stem Cell Programme Manager, MRC
15. Reverend James Buxton, Chaplain, Guys Campus, Kings College London
16. Dr Shanta Persaud, Beta Cell / Stem Cell Biology, King's College London
17. Professor Sarah Cunningham Burley, Medical Sociology, University of Edinburgh
18. Dr Isie MacIntyre, Stem Cell Programme Manager, ESRC
19. Professor Anne-Marie Rafferty, Dean School of Nursing, King's College London
20. Dr Angela Wilson, Director of Research, Diabetes UK

Biographies: ESRC SCI Stem Cell 'Expectations Workshop' at KCL (19.9.2006)

* **Catherine Arkley** has been Chief Executive, Children's Liver Disease Foundation, for 15 years. In this time the income for the charity has quadrupled and comprehensive programmes of research, patient and family support and education have been developed. She has developed a number of major campaigns, including Yellow Alert; a campaign to promote early diagnosis and prompt referral of infants with liver disease. Catherine managed the development of patient literature to accompany the UK paediatric liver transplant programme, and is currently working on literature for the UK paediatric intestinal transplant programme. Catherine also serves on the executive council of the Association of Medical Research Charities.

Nik Brown is Deputy Director of the Science and Technology Studies Unit (SATSU) and Lecturer in the Department of Sociology at the University of York. His research is in the sociology of science, medicine and technology with particular reference to the role of expectations and futures in life science innovation. He has authored numerous publications including *New Medical Technologies and Society: Reordering Life* (2004, Polity Press, with Andrew Webster) and *Contested Futures: A Sociology of Prospective Technoscience* (2000, Ashgate, with Rappert & Webster). His current research explores networks of blood innovation and the economies of blood stem cell banking.

* **James Buxton** is Chaplain of King's College London at Guy's Hospital, and Succentor of Southwark Cathedral, following curacy in Portsmouth. He has a long standing interest in issues of global justice, and previously worked with refugees in Istanbul, and in campaigning and fundraising for Oxfam in the UK.

Alan Cribb is Professor of Bioethics & Education at King's College London, University of London. His research relates to applied philosophy and health policy, and he has a particular interest in developing interdisciplinary scholarship that links philosophical, social science and professional concerns. His current research is examining pharmacy ethics and virtues in medical education. He is the former Editor of *Health Care Analysis: An International Journal of Health Care Philosophy & Policy*.

Sarah Cunningham-Burley is Professor of Medical and Family Sociology at the University of Edinburgh, in the Division of Community Health Sciences and also at the Centre for Research on Families and Relationships (CRFR), where she is one of its co-directors. She has been conducting research in the sociology of health and illness and family sociology for many years, mostly employing qualitative methods. Her research interests include sociological aspects of genetics and health; public engagement in science; young people, children and health; families, relationships and health. She is a member of the Human Genetics Commission, the UK Government's advisory body on new developments in human genetics.

Bobbie Farsides is Professor of Clinical & Biomedical Ethics at the Brighton and Sussex Medical School, University of Sussex. Her research interests span the ethics of palliative and end of life care, antenatal screening, stem cell research, and pre-implantation genetic diagnosis. She has a particular interest in the interconnections between philosophical and empirical ethics, and the ethical views of health professionals as reflected in her collaborations with Clare Williams on three major research projects. In March 2006 she became Co-Editor of the new Royal Society of Medicine journal *Clinical Ethics*.

* **Peter Jones** is Professor of Endocrine Biology at King's College London, head of the Beta Cell Development and Function Group at the Guy's Campus, and Deputy Director of the Division of Reproduction and Endocrinology. He is interested in all aspects of the physiology and pathology of endocrine systems, with particular emphasis on the pancreatic islets of Langerhans. Peter chairs a Research Committee for the European Foundation for the Study of Diabetes; is a member of the Research Committee for Diabetes UK; is a member of the Islet and Transplantation Committee for the Juvenile Diabetes Research Foundation (JDRF) in the USA; and is a member of an EU Framework 6 Concerted Action Network.

Paul Martin is Reader in Science and Technology Studies and Deputy Director of the Institute for the Study of Genetics, Biorisks and Society (IGBiS) at the University of Nottingham. He trained as a molecular biologist and subsequently worked as a health policy analyst before taking a PhD in science and technology studies at the University of Sussex. His research interests cover innovation in the biotechnology industry, the social and ethical issues raised by genetics and the regulation of new medical technologies. Recent grants include studies of the impact of genomics on innovation in the pharmaceutical industry (ESRC) and expectations of haematopoietic stem cell technology (ESRC). Paul has just completed a review of progress in genetic medicine for the Royal Pharmaceutical Society and is currently co-organising a national ESRC funded seminar series on neuroscience and society.

Mike Michael is Professor of Sociology of Science and Technology at the Sociology Department, Goldsmiths College, University of London. His interests include public understanding of science, the relation between everyday life and science and technology, and biotechnological and biomedical innovation and culture. He is currently working on ethical aspects of stem cell research, and technoscience and everyday life. Recent books and upcoming publications include (with Alan Irwin) *Science, Social Theory and Public Knowledge* (Open University Press, 2003), *Technoscience and Everyday Life* (Open University Press, in press), and (with Lynda Birke and Arnie Arluke) *The Sacrifice: How Scientific Experiments Transform Animals and People* (Purdue University Press).

Shanta Persaud is Reader in Diabetes & Endocrinology at King's College London. Her main research interests lie in defining the intracellular signalling pathways regulating the secretion of insulin from pancreatic β -cells. The major focus of her work has been on how β -cells recognise external stimuli, and how they transduce that recognition into an appropriate secretion of insulin. More recently she has also been active in research aimed at generating physiologically-competent replacement β -cells from embryonic stem cells. Shanta is a member of the MRC College of Experts Physiological Systems & Clinical Sciences Board, the JDRF Medical Advisory Committee and the Diabetes UK Professional Advisory Council. She currently has grant support from Diabetes UK, Diabetes Research and Wellness Foundation, MRC, BBSRC and Ayurvedic Life International.

Alan Petersen is Professor of Sociology, School of Law and Social Sciences, University of Plymouth. He has researched and written extensively on the new genetics and, recently, on nanotechnologies. His recent publications include *The New Genetics and the Public's Health* (Routledge, 2002) (with Robin Bunton), and *Genetic Governance: Health, Risk and Ethics in the Biotech Era* (Routledge, 2005) (edited with Robin Bunton), and he is currently editing *Biobanks: Challenges for Ethics* (Routledge, 2007) (with Herbert Gottweis). His book, *The Body in Question: A Socio-Cultural Approach* (Routledge), is due for publication in November 2006.

Anne Marie Rafferty became Professor of Nursing Policy and Dean of the Florence Nightingale School of Nursing and Midwifery, King's College London in 2004. She was the recipient of a Harkness Fellowship to study at the University of Pennsylvania, USA, and she worked with Dr Linda Aiken on the role of nursing in the Clinton health reform agenda. She was appointed Director, Centre for Policy in Nursing Research at the London School of Hygiene and Tropical Medicine in 1994, and subsequently Head, Health Services Research Unit. Her research areas include healthcare workforce, health sector reform and patient outcomes, nursing history and policy analysis.

Brian Salter is Professor of Biopolitics and Director of the Global Biopolitics Research Group in the Institute of Health at the University of East Anglia. A political scientist specialising in the analysis of public policy, he has studied the political forces at work in the policy arenas of education, health and, most recently, the life sciences. Here his work focuses on the global politics of new health technologies and the international governance issues surrounding the bioethics and regulatory policies of stem cell research. He has published numerous books and articles including *The new politics of medicine* (2004) and *The politics of change in the Health Service* (1998). Closely associated with his academic work is his role as policy adviser to government, funding agencies, professional and international bodies and his contribution as ethical adviser to the European Framework Six Programme.

* **Rosamund Scott** is Reader in Law at the School of Law and the Centre of Medical Law and Ethics, King's College London. Her academic background is in philosophy and law and she is also a barrister. Her research interests are largely in the field of reproductive law and ethics. In 2002 her first book, *Rights, Duties and the Body: Law and Ethics of the Maternal-Fetal Conflict*, appeared. She has since published a number of articles on prenatal screening, selective abortion and preimplantation genetic diagnosis and is currently writing a book in this area. She is a member of the Editorial Advisory Board of *Clinical Ethics*. She teaches Medical Law and Medical Ethics.

Steven Wainwright is Senior Lecturer, Division of Health & Social Care Research, and School of Nursing, King's College London. His research focuses on three areas: the connections between Medical Sociology and Science & Technology Studies (especially innovative medical technologies); Medical Humanities; and the Sociology of the Body. He is currently working on this ESRC funded ethnography of stem cell research, and some of this study forms the basis of his forthcoming research monograph (with Clare Williams) on *The Body, Biomedicine & Society: Reflections on High-Tech Medicine* (Palgrave Macmillan). From October 2006 he will be an Editor of the leading Sociology journal published in the UK: *Sociology of Health & Illness*.

Andrew Webster is Professor of Sociology, Director of the Science & Technology Studies Unit, and Head of Department of Sociology at the University of York. He completed his five year role as Director of the £5m ESRC/MRC Innovative Health Technologies Programme in April 2006, is member of various national Boards and Committees (including the DoH Advisory Group on Genetics Research and the UK Stem Cell Bank Steering Committee) and recently co-ordinated and co-authored the ESRC's Research Ethics Framework implemented in 2006. He is national co-ordinator of the ESRC's new Stem Cell Initiative (2005-9), and is a member of the Royal Society's Expert Working Group on Health Informatics. His research interests are in the areas of the sociology of science and technology, science policy studies, IHTs and their use, the sociology of innovation, the commercialisation of research, and technology foresight. He is undertaking externally funded research on stem cells and the implementation of pharmacogenetics and public confidence in informatics systems (see forthcoming book, *Health, Technology and Society: A Sociological Critique*, Palgrave Macmillan).

Clare Williams is Reader in Social Science of Biomedicine, Division of Health & Social Care Research, and School of Nursing, King's College London. Her research and writing focuses on the clinical, ethical and social implications of innovative health technologies, particularly from the perspective of health care practitioners and scientists. She holds grants from the Wellcome Trust Biomedical Ethics Programme on the experiences of staff working in pre-implantation genetic diagnosis; and the ESRC Stem Cell Initiative on mapping stem cell innovation in action. Clare is on the Editorial Board of *Clinical Ethics* and from October 2006 will be an Editor of *Sociology of Health & Illness*. She is UK member of the European Science Foundation Committee which awards EU Framework networking grants.

* **Angela Wilson** is Director of Research at Diabetes UK. In 1999 she joined the NHS Executive and was responsible for NHS R&D in Eastern England where she played a key role in implementing the government's initiative to establish a National Cancer Research Network. In 2001 as Deputy Director for the DoH Diabetes Portfolio and as a member of the Diabetes NSF Executive Board, Angela was involved in the development of the NSF for Diabetes and co-wrote 'Current and Future Research on Diabetes: A review for the DoH and the MRC' (2002) which formed the research base and underpinned the Diabetes NSF. In 2003 Angela was appointed Director of Science Reviews in the Office of Science and Innovation. Since Angela joined Diabetes UK notable achievements include: publication of the organisation's first-ever Research Strategy, and the launch of Diabetes UK's biggest ever research initiative – a £3million call for research to improve the Care and Treatment of people with diabetes.

* **Member of project Advisory Group.** Other members of the Project Advisory Group are: **Gemma Bradley** (Press & Publications, King's College London); Professor **Renee Fox** (Annenberg Professor Emerita of the Social Sciences and Senior Fellow of the Center for Bioethics, University of Pennsylvania, USA); Professor **Simon Howell** (Dean of Research, Biomedical Science, King's College London); Dr **David King** (Director, Human Genetics Alert).