

CURRICULUM VITAE

GENERAL

James Mitra

School of Social and Political Science
College of Humanities and Social Science
Science, Technology and Innovation Studies (STIS) & Innogen Institute,
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CAREER SINCE GRADUATION

August 2016- Present: Senior Lecturer in Science, Technology and Innovation Studies, University of Edinburgh
October 2015 – July 31st 2016: Lecturer, Science Technology and Innovation Studies, University of Edinburgh
2012 - 2015: Senior Research Fellow, Innogen Institute and STIS, University of Edinburgh
2007-2012: Research Fellow, ESRC Innogen Centre, University of Edinburgh
2003-2007-: Post-doctoral Research Fellow, ESRC Innogen Centre, University of Edinburgh
2000 – 2001: Sessional Tutor, Department of Sociology, University of Warwick

UNIVERSITY EDUCATION

1999-2004: PhD Sociology (ESRC funded), Thesis: 'Genetic Information, Life Assurance and Britain's Policy and Regulatory Framework', Department of Sociology, University of Warwick (supervised by Prof. Steve Fuller and examined by Prof. J.A. Beckford & Prof. R. Dingwall)

1997-1998: MA Sociology, Department of Sociology, University of Leeds (Dissertation on Latour and Actor Network Theory supervised by Prof. Sylvia Walby and awarded Distinction)

1994-1997: BA (Hons) Humanities and Social Science (Sociology with Philosophy) (first class), Manchester Metropolitan University

TEACHING

Undergraduate Taught

2000/2001: 'Gender, Class and Empire: British Society and British Imperialism since 1750' (Dept of Sociology, University of Warwick) – first year undergraduate course tutor

2001: 'Sociology of Science' (Dept of Sociology, University of Warwick) – Guest lecturer for 3rd year undergraduate course (topic was Auguste Comte and scientism)

Post-graduate Taught

2014/2015 'Regulation and Governance of New Therapies': I developed this innovative online 20 credit optional course for students on the MSc in Stratified Medicine and Pharmaceutical Innovation, which is a cross-university programme led by the University of Glasgow. This is a new and pioneering model of collaborative online course delivery.

2012-2017: 'Introduction to Risk, Regulation and Governance': I am course for this 10 credit course, which provides an introduction to the key concepts, theories and approaches to risk assessment, governance and regulation (including anticipatory risk governance, integrative risk governance, and risk-benefit analysis) and also explores the issue of how to manage emerging and complex risks.

2012-2017: 'Regulation and Governance of the Life Sciences': I am course organiser for this 10 credit course which is a core course for MSc BIG and focuses specifically on the regulation and governance of the life sciences, particularly health and agriculture.

2012-2014 Biobusiness: I was co-organiser of this 20 credit core course, which explores the systemic character of discoveries in the life sciences, developments in medical and information technology, advances in areas such as agro-bio, bio-fuels and bio-materials, and how these changes are reshaping the bioeconomy in fields such as healthcare, agriculture and 'green economy'.

2013: Current Trends in Life Science Innovation 2: I organised this 10 credit course, which aimed to equip students with knowledge, skills and expertise in foresight techniques and scenario analysis in the life sciences, building on innovative, Innogen research methods. This was a core course for MSc BIG.

2007-2014 MSc Online Programme in Translational Medicine (University of Edinburgh) I was responsible for the development and delivery of two core courses (20 credits), and contributed an additional 20 credits of material for other courses, on the Certificate and Diploma phases of this 3 year online Master's Programme, based in the College of Medicine and Veterinary

Medicine (CMVM). I was also a key member of the course development team; representing the social science contribution.

2004-2007 Evolution and Dynamics of Biotechnology (MSc Course, University of Edinburgh): I was the original developer and course organiser for this 20 credit course, which was the first within the School to focus on innovation in the life sciences industries.

2003: Genetics, Nature and Society (MSc Course, University of Edinburgh) I provided a guest Lecture for this course, which explored the social shaping/co-construction of different genetic technologies and knowledge, largely from a broad sociological perspective.

Post-graduate Taught Students Supervised

2017: Supervising 2 MSc BIG dissertations

2016: Supervising 2 MSc BIG dissertations

2015: Supervised 3 MSc BIG dissertations

2014: Supervised 4 MSc BIG dissertations and 1 MSc Translational Medicine dissertation

2013: Supervised 2 MSc BIG dissertations and 1 MSc Translational Medicine dissertation

2012: Supervised 2 MSc Translational Medicine Dissertations

2011: Supervised 1 MSc Translational Medicine dissertation and 1 MSc in Medical Anthropology dissertation

Other Teaching

2007: ESRC Innogen Centre Executive Development Programme: This 3-day professional development course – ‘Life Science Companies: Managing a Turbulent Future’ – was delivered, in collaboration with colleagues from Tufts University, to senior executives from the pharmaceutical/health sectors. The course covered innovation processes, policy and regulation; and stakeholder power and governance. My role on this course was to prepare two in-depth case studies, with supplementary readings and questions, lead classroom discussion and develop with colleagues the curriculum for the 3 days.

RESEARCH

MAJOR RESEARCH INTERESTS

With a background in sociology and philosophy I have developed my career and research interests around innovation in life sciences, with a specific focus and expertise in translational medicine, regulation and governance, and innovation in the health-related bioeconomy. I have developed this within the Science, Technology and Innovation Studies (STIS) subject area, which is an interdisciplinary field that brings together various social science disciplines to answer important questions about how societies both influence and are influenced by science, medicine and technology. I was also Deputy Director of the Innogen Institute (formerly the ESRC Innogen Centre) until July 2017, which is a dynamic, interdisciplinary collaboration between the University of Edinburgh and the Open University and explores the social and economic aspects of innovation in the life sciences in both developed and developing country contexts.

Over my 12 year career within Innogen and STIS, I have been developing new interdisciplinary methods and theories to better understand how 'new biology' is affecting the nature and process of health innovation and contributing to the global bioeconomy. Through a series of related projects following my doctoral work on the impact of genetic knowledge on the insurance industry, I developed new ideas on the nature and practical implications of translational medicine for the organisation and management of health R&D and methods (Analysis of Life Science Innovation Systems (ALSIS) and Strategic Analysis of Technological Innovation Systems (STRATIS)) for studying business models and value systems for new technologies that do not have a conventional route to market, particularly in the field of regenerative medicine and stratified medicine.

My most significant contribution has been to develop systemic interdisciplinary approaches to understanding life science innovation (which connects regulation, governance and innovation at different stages of product development) and better integrate Science and Technology Studies (STS) and innovation studies approaches to improve analysis of these translational activities. Recently I have begun to explore in new ways the concept of value (economic and non-economic aspects) in health-related innovation; particularly in the context of interdisciplinary and translational research where the distinction between public and commercial, and relationship between laboratory and clinic, has become blurred. This was written up in my first monograph: *'The New Health Bioeconomy: R&D Policy and Innovation for the Twenty-first Century'* (Palgrave Macmillan: Basingstoke).

Major thematic areas that I contribute to: Translational Medicine; Risk, Regulation and Governance (health and agriculture), Bioeconomy and Biobusiness, Value

RESEARCH GRANTS

Principal Investigator/Lead Researcher

1. 2013: ESRC Scottish Independence and Health (2013, **£151,801**) – 12-month research project to investigate implications of independence on Scottish Health and medical research. This was a high impact project funded as part of the ESRC's 'Future of the UK and Scotland' programme. Findings from my research have informed discussions around the future of Scottish healthcare and research in the context of the referendum debate and this programme of work led to my participation in 2 major public debates as part of the Edinburgh Science Festival and the Edinburgh International Fringe festival.
2. 2008-2013 Translational Research: Conceptualising and Practicing Translation (ESRC Innogen Centre grant approx. **£350,000**) – Innogen phase 2 project to explore the emergence and progress of Translational Medicine. Through this work I developed new conceptual and theoretical insights into the role of 'new biology' in shaping R&D policies and practices, and the role of different expectations and value(s) in driving particular translational approaches and disrupting conventional professional and disciplinary boundaries. This research led to the publication of my first book.
3. 2006: Emerging Research Models for the Delivery of Health Innovation (OECD, **3,000 Euros**): 3 month contract commissioned by the OECD to prepare a case study on Scotland's Translational Medicine Research Collaboration (TMRC). My contribution provided part of the evidence base to inform future OECD strategy.
4. 2006-2009 EC RiskBridge Project (European Commission FP6 Project **£69,865**): I was Acting PI on this major European Commission Coordinated Action Project entitled RiskBridge – Building robust, integrative, inter-disciplinary governance models for emerging and existing risks. This was an important international project as it was the first to link risk-governance issues across a range of disparate sectors and 'risk fields' and make a serious attempt to understand where learning and best practice could be achieved. This project made a significant contribution as it directly informed the European Commission's understanding of good practice for risk-governance.

Co-Investigator

1. 2014: ESRC Independent Review on Anti-Microbial Resistance (AMR): Potential to Change the Regulatory System (ESRC, **£36,022**) I was a co-investigator on this short project commissioned by the ESRC to identify key social science issues relevant to the global challenge of AMR. AMR is a major global challenge and this work is making an important contribution to better understanding the nature of the problem and identifying research priorities. The results of this project

fed directly into the Government's 2015 O'Neil Review on antimicrobial resistance. I led the regulatory strand of the project.

2. 2014-2017 ESRC Regenerative Medicine and its Development and Implementation: An Analysis of Emergent Value Systems and Health Service Readiness (ESRC, £465,000): Collaborative three-year project with 3 external partners (led by the University of York with Prof Andrew Webster as P.I and also involving the universities of Sussex and Birmingham) to explore and evaluate business models, value systems and health service readiness for a number of different types of regenerative medicine products.

3. 2013-2014: A Research Proposal to Address the House of Lords Regenerative Medicine Inquiry Recommendation 13: Business Models, Venture Capital and the Funding Gap" (ESRC, £79,758) – Commissioned by the ESRC, this project addressed business models and funding gaps for a range of regenerative medicine therapies. This was an important project in that it directly addressed a major concern that had been highlighted in the House of Lords report and provided new evidence to support future decision-making about the funding priorities of regenerative medicine and the role of new funding models.

4. 2012-2013: Engaging with Uncertainty and Risk in Agricultural Biotechnology Regulation: Delivering Safety and Innovation (ESRC/Syngenta £20,000) This ESRC Knowledge Exchange project with Syngenta combined Innogen and Syngenta's data, expertise and approaches to apply insights from socio-economic critiques of policy processes to the governance and regulation of agricultural biotechnologies.

5. 2010-2011: Technology Strategy Board REALISE Project (ESRC/TSB £160,514): TSB REALISE project (Regenerative Medicine Programme: Value Systems and Business Models: A Therapy Realisation Pathway Tool), was a major collaborative project with Roslin Cells and the Scottish Stem Cell Network to explore regulatory initiatives and their impact on 3 regenerative medicine case studies. This was an important project in that it enabled me to develop with colleagues the innovative ALSIS methodology, test it on real life case examples and show that it could facilitate both decision-making in companies and by policymakers and contribute to better social science understanding of innovation systems.

Other funding

Scottish DTC - £3000 secured from the Scottish Graduate School of Social Science to organise and run a two-day symposium and advanced doctoral

training event titled 'Dimensions of Value and Values in STS', in collaboration with Prof Anne Kerr and the White Rose DTC.

Additional Research Activities

2003-2007: Innovation Processes in Life Science Industries: 4-year post-doctoral project within the ESRC Innogen Centre on the impact of the life sciences on the pharmaceutical industry. This interdisciplinary project assessed the changing internal dynamics and structure of the pharmaceutical sector, the impact of these changes in the knowledge base on strategic and R&D decision making, and the resulting interactions between industry, regulatory bodies, stakeholders and public groups.

1999-2004: Genetic Information and its Implications for the Life Assurance Industry

My doctoral work on genetics and insurance explored the transformative impact of genetic information on conventional understandings of risk, actuarial science, discrimination and social exclusion, in the context of ongoing public debates about the appropriate governance of new genomic technologies

RAE/REF Status: Active (2008 and 2014 in the Sociology Unit of Assessment)

RESEARCH SUPERVISION

Completed

David Johnson (2013-2016) 'Regenerative Medicine Venturing: Entrepreneurial Behaviour and New Venture Development Under High Levels of Perceived Environmental Uncertainty' (Mitra as co-supervisor with Prof Richard Harrison and Dr Adam Bock, Edinburgh Business School)

Emma King (2008-2013): 'Innovation and regulation interactions in the development of clinical stem cell therapies' (ESRC Case Student; Mitra as first supervisor, with Prof. Dave Wield and Prof. Marc Turner (Scottish National Blood Transfusion Service)

Donna Messner (2004-2008): 'Fast Track: The Transformation of Drug Approval and the Clinical Trial System for Drug Evaluation in the United States' (Mitra as second supervisor, with Prof. Steve Sturdy)

Ongoing

Sara Valencia-Cadavid (2014-) 'Knowledge Management in the Outsourcing of Clinical Trials to Produce Vaccines in Global Alliances. Case study of Dengue Vaccine in Latin America' (Mittra as first supervisor with Dr Alessandro Rosiello)

Rosalind Attenborough (2015-) 'Open Science as an Identity and Epistemic Virtue' (ESRC funded 1 + 3; Mittra as second supervisor, with Dr. Nicki Vermeulen).

KNOWLEDGE EXCHANGE AND IMPACT

I have made significant contributions to external knowledge exchange through specific KE projects (ESRC/Syngenta Project); activities (organisation of two knowledge exchange workshops around agricultural biotechnology and one workshop for the pharmaceutical industry); and various invited talks given to the general public, policymakers/third sector organisations and government (the latter including a methods seminar delivered to 25 Scottish Government researchers). I have made significant and well-received contributions to KE through my ESRC funded project on health and Scottish Independence, including speaking at the Edinburgh International Science Festival and the Edinburgh Fringe Festival.

Radio and Newspaper

Oct 2008 Interviewed by James Morgan (BBC Science correspondent) about genetics and insurance.

July 2007 Interviewed by freelance writer (Dr. Sara Sleight) on the topic of Translational Medicine and the pharmaceutical industry (Contribution acknowledged in report: Translational Medicine in Biopharmaceutical R&D: Enabling R&D optimization and early detection of potential failures', Reuters Business Insights, October 2007)

Knowledge Exchange/Public Engagement

Mittra, J. (2015) 'Innovative Health and Scientific Research: Scotland within the UK: together or apart?', Invited presentation to the Morningside Justice and Peace Group, February 11, 2015, The Open Door Café, Morningside, Edinburgh

Mittra, J. (2014) 'Innogen and the STRATIS Method: A Case Study of Cultured Blood Innovation', Invited talk to Scottish Government, Edinburgh, October 24, 2014

Mittra, J. (2014) – Invited panel speaker (alongside 3 MSPs) at Edinburgh International Science Festival event 'Choosing a Healthy Future' (part of series of events linked to the independence referendum), National Museum of Scotland, April 10

Mitra, J, E. Barlow & M. Mastroeni (2014) 'Is Scottish Independence Bad for your Health?', Edinburgh International Fringe Festival, Beltane Cabaret of Dangerous Ideas, August 9th

March 21st 2014 – Organised a stakeholder workshop 'Scottish Independence and Health: Assessing the Impact of Independence on Clinical Research and Healthcare', and gave an opening talk, Royal College of Physicians, Edinburgh

March 3rd/4th 2014– Organised (with Prof Joyce Tait) two Knowledge Exchange Workshops 'A New Approach to Dialogue on Advanced Agriculture-related Biotechnologies', (with £3,388 funding from the University of Edinburgh's College of Humanities and Social Science Knowledge Exchange Grant), which were held in London and involved industry representatives, policymakers and NGOs.

2007 - Organised a high-level pharmaceutical industry workshop – 'Challenges and Opportunities for the Pharmaceutical Industry' – in collaboration with the Association of the British Pharmaceutical Industry (Jan 25 2007). This workshop brought together senior R&D managers and scientists, including Dr. Frank Walsh (Head of Global Discovery, Wyeth), to discuss current challenges and opportunities in the pharmaceutical industry, and its continuing attempts to better translate new chemical and molecular discoveries into therapeutically beneficial products; thereby bridging the conventional public-private divide.

ACADEMIC LEADERSHIP AND MANAGEMENT

January 2018 – July 2021 - I will be Head of Subject – Science, Technology and Innovation Studies, School of Social and Political Science

August 2015 – July 2017: Deputy Director (Research) of the Graduate School of Social and Political Science (one of the largest schools in the College with over 300 FTE research students).

March 2015 – June 2017 - Director of the MSc Programme in Management of Bioeconomy, Innovation and Governance

September 2014 – July 2017t: Deputy Director of the Innogen Institute – contributing to research leadership and assisting the Director in overall administration of the Institute

September 2014 – September 2015: Postgraduate Advisor (admissions only) in STIS, responsible for all admissions and preparing students for the various scholarship competitions.

September 2014 – September 2015: Scottish Graduate School of Social Science STIS Pathway Convenor (responsible for developing and promoting STIS as a discipline, representing the pathway within the SGSSS and managing the pathway studentship competition, including chairing/arranging the STIS ranking panel). I also sat on the Open competition decision-making panel.

MEMBERSHIP OF COMMITTEES/WORKING GROUPS

Internal

February - July 2017 – Chair of the Graduate School of Social and Political Science: Research Training Review Sub-group 1: Core requirements for methods training and postgraduate research student development

January 2017 – Present: Member of the University's MSc by Research Task Group

September 2016- Present: Member of the College of Arts, Humanities and Social Science PGR Strategy Working Group.

September 2015 – Present: Member of a School of Social and Political Science Working Group to explore new funding models for PhD students.

August 2015 – July 2017: Chair of the School of Social and Political Science Research Training Exam board

August 2015 – July 2017: Chair of the Postgraduate Advisors Group, School of Social and Political Science

August 2015- Present – Member of the College of Humanities and Social Science Postgraduate Committee

August 2015- Present – Member of the College of Humanities and Social Science Postgraduate Examinations Sub Committee

February 2016- Present – Member of the College of Humanities and Social Science Scholarships Sub Committee

September 2014 – Present: Member of the School of Social and Political Science Postgraduate Board of Studies and Postgraduate Committee

July 2014 – 2015: Member of the STIS Seminar Committee

2011-Present: Member of the STIS Teaching Committee

2012: Innogen data management contact (responsible for managing Innogen's research data in line with ESRC data archiving requirements)

External

January 2016- Present: Appointed as a member of the ESRC's Centres for Doctorial Training (CDT) Peer Review College (for the Biosocial Research call). This is a specially constituted peer review college, established because of the highly specialist nature of the CDTs and the need to select appropriate reviewers.

August 2015 – July 2017 – Member of the Scottish Graduate School of Social Science 'Graduate School Directors Network'

June 2015 – March 2017: Invited member, based on my expertise in risk, regulation and governance, of the 'Foresight Core Group', which was an advisory group of the Horizon 2020 Prosafe Project looking to develop safe nanomaterials and support regulators and industry as they develop these new technologies.

March 2015 – Member of the Scottish Graduate School of Social Science Open Competition Panel

January 2015 - Present: Member of the Joint Management Board (JMB) for the cross-university, collaborative MSc in Stratified Medicine & Pharmacological Innovation Programme, led by the University of Glasgow

September 2014 – September 2015 – Member of the Pathway Conveners' Group, Scottish Graduate School of Social Science

April 2014: Appointed member of the ESRC 'AMR Working Group' to advise the ESRC on funding strategies/priorities for work on antimicrobial resistance (AMR). The work of this group led to the publication of an ESRC report titled: '*Anti-Microbial Resistance: Setting the Social Science Agenda: Report of an ESRC Working Group*' in July 2014

2007- 2015: Member of the College of Medicine and Veterinary Medicine (CMVM) exam board for Translational Medicine and core member of the development team for the MSc in Translational Medicine

EXTERNAL PHD EXAMINER

2013: Marlous Kooijman (PhD): 'Why Animal Studies Are Still Being Used in Drug Development: An Innovation System Perspective', Copernicus Institute of Sustainable Development, Faculty of Geosciences, Universiteit Utrecht

INTERNAL PHD EXAMINER

2017: Leah Gilman 'Qualifying Kinship: How do UK Gamete Donors Negotiate Identity-Release Donation'? (Science, Technology and Innovation Studies, Edinburgh)

GRANT, BOOK AND JOURNAL REFEREE EXPERIENCE

Journal and Book Referee: I have reviewed articles for Research Policy, Social Studies of Science; Science as Culture; Public Understanding of Science; International Journal of Biotechnology; Bioethics; New Genetics and Society; Innovation and Development; New Biotechnology; Expert Opinion on Drug Discovery; Drug Discovery Today; and Technology Analysis and Strategic Management.

National Grant Referee: I have reviewed grant proposals for the UK's Economic and Social Research Council (ESRC) and the Engineering and Physical Sciences Research Council (EPSRC).

International Grant Referee: From September 2014, I served as an invited GE3LS Reviewer for the Genome Canada competition, 'Genomics and Feeding the Future'. In 2014 I was also invited to review grant proposals for the Netherlands Organisation for Scientific Research (NWO, the Dutch Research Council) Responsible Innovation Programme.

CONFERENCE/WORKSHOP ORGANISATION (see knowledge exchange activities for other workshops organised)

April 2013 – Organised and ran a 2-day symposium and advanced PhD training workshop on 'Dimensions of Value and Values in STS' (with Prof Anne Kerr) in collaboration with White Rose and Scotland ESRC DTCs (with £3000 funding). The symposium brought together contributions from a broad range of scholars in science, technology and innovation studies that have, through both theoretical work and range of empirical case studies, explored the complexities and nuances of both economic, financial and commercial value; and broader socio-political values. (April 17 and 18, 2013)

2009 - Organised the final conference, and wrote the report, for the European Commission FP 6 Project Riskbridge: 'Risk Governance and Policy Learning Within and Between Risk Fields', Scotland House Conference Centre, Brussels, March 26-27, 2009

2007 - Member of the Planning Committee for the EGN Network Conference, 'Genomics and Society: Today's Answers, Tomorrow's Questions', 25-26 October, 2007

2005 - Organised and chaired a session – ‘Strategic Alliances in Biopharmaceuticals’ - at the Innogen International Conference, ‘Evolution of Life Science Industries’, 23-25 February 2005

EXTERNAL RECOGNITION/ESTEEM

From April 25-April 29th, 2016 I was invited to the University of Rhode Island, College of Environment and Life Sciences, as part of its Distinguished Visiting International Scholar Programme. I delivered a public lecture, graduate and undergraduate talks, and met with various Deans, Provosts and Faculty to build links between the University of Edinburgh and Rhode Island.

INTERNATIONAL INVITED TALKS/KEYNOTES

1. Mitra, J. (2016) ‘What is the Bioeconomy and How should we Value it?’, Public Lecture, Distinguished Visiting International Scholar Programme, Ryan Family Auditorium, Center for Biotechnology and Life Sciences, University of Rhode Island, April 26th, 2016.
2. Mitra, J. (2016) ‘Challenges and Opportunities in Collaboration between the Natural and Social Sciences: Case studies from Regenerative Medicine and Agricultural Biotechnology’, Seminar talk to the Department of Environmental and Natural Resource Economics, the Coastal Institute Building, University of Rhode Island, April 29, 2016.
3. Mitra, J. (2016) ‘Preparing Students for Work in the Global Bioeconomy: The Need for Interdisciplinary Knowledge and Systems Thinking’, University of Rhode Island seminar talk to undergraduate scientists, April, 27th, 2016.
4. Mitra, J. (2015) ‘MSc in Management of Bioeconomy, Innovation and Governance: An Interdisciplinary Programme to Meet the Needs of the Bioeconomy’, 5th ICA Rectors and Deans Forum 2015, ‘Educating the Young Professionals to Feed the Planet & Provide for the Sustainable Bioeconomy’, Faculty of Agricultural, Food and Environmental Sciences, Università Cattolica del Sacro Cuore, Piacenza, Italy, October 23rd, 2015
5. Mitra, J (2012) ‘Repairing the Broken Middle of the Health Innovation Pathway: The Emergence of ‘Translational Medicine and its Impact on Organisational Practice’, Invited Keynote Lecture, International Conference on Translational Research in Biomedicine: Challenges and Good Practice’, November 19th, Berlin
6. Mitra, J., H. Lowrie., J. Tait & M. Mastroeni (2011) ‘Overcoming the Translational Gap in Commercialisation of Stem Cell Therapy’, Remedie Closing Conference: Bringing Regenerative Medicine to the Clinic: Trials and Tribulations in Europe and Beyond, April 18/19, Bilbao, Spain

7. Mitra, J (2005) 'Regulation of Human Reproductive Technologies in the UK: Libertarian Values Versus Communitarian Fears' – Norwegian Academy of Science and Letters, 16th September – Workshop organised by the Seminar in Science Studies, University of Oslo

INVITED NATIONAL TALKS

1. Mitra, J (2014) 'Innovation/Regulation Interactions and Business Models for Antimicrobial Drug Development', Invited by the Medical Research Council to speak at its workshop 'Small molecule approaches to antibiotics – how can we enhance, develop and target', part of its Tackling AMR' A Cross Council Initiative, Tuesday 25 November, London
2. Mitra, J. (2014) 'Business Models, Funding Gaps and New Value Systems for Regenerative Medicine', Horizons in Human Cells International Conference, Edinburgh, May 28
3. Mitra, J & J. Tait (2012) 'New Business Models and Value Systems in Regenerative Medicine', Invited panel talk at MHRA Joint Workshop on the Regulation of UK Regenerative Medicine, October 30th
4. Mitra, J. (2010) Invited respondent at EGN Health Technologies and Health Systems Workstream, Workshop 3, Genomic subpopulations and health systems responses, University of Exeter, November 11th
5. Mitra, J. (2008) 'Interviewing Elite Groups in Biomedicine: Experiences from the Field', PFGS Regional Meeting, Genomics Forum, University of Edinburgh, 14 April
6. Mitra, J. (2008) 'Risk Governance of Stem Cells as Therapeutic Products and Broader Implications for Innovation', PEALS Spring Symposium (The Identification, Regulation and Implications of Risk Within Stem Cell Research), 10-11 April, 2008, Durham Castle
7. Mitra, J. (2007) 'Risk Governance and Regulation of Stem Cells as Therapeutic Products', Stem Cells: European Business Summit, Edinburgh, 12th October 2007 (paper also delivered at ESRC Genomics Network Conference, London, 25th October
8. Mitra, J (2007) 'Insurance and Healthcare in the Molecular Age', invited discussant for Biodata, Health and Security Research Workshop, Institute for Advanced Studies, University of Lancaster, June 29th
9. Mitra, J & J. Tait (2006) 'Public-Private Partnerships in Translational Medicine: Scotland's Translational Medicine Research Collaboration (TMRC)', Paper presented at OECD Expert Workshop, 'Emerging Research models for the Delivery of Health Innovation', Paris, November 20-21
10. Tait, J., and J. Mitra (2006) 'Singing from the Same Hymn Sheet: Can Genomics Harmonise with Chemistry?', SCIpharm, Wednesday 17 May, Edinburgh International Conference Centre

OTHER TALKS (excluding knowledge exchange talks provided above)

1. Mitra, J. (2017) 'Structured Support for Doctoral Training in the Graduate School of Social and Political Science', Benchmarking the Important Elements of PhD Study Workshop, UK Council for Graduate Education, St Leonard's Hall, University of Edinburgh
2. Mitra, J. (2013) 'Identifying and Measuring Value(s) in Regenerative Medicine and Translational Research', 'Dimensions of Value and Values Science, Technology and Innovation Studies: A Two Day Symposium and Advanced Training for Postgraduate Research Students', University of Edinburgh, 17 and 18th April
3. Mitra, J. (2008) 'Genetic Information and Access to Life Assurance; The Poverty of Genetic Exceptionalism', EGN Network Conference, London, October 28
4. Mitra, J. (2008) 'Management Responses to Stem Cell Risks', EC Riskbridge Workshop, Gorizia, Italy, May 13th
5. Mitra, J. (2008) 'Issue Framing in the Stem Cell Risk Field', EC Riskbridge Workshop, Gorizia, Italy, May 12th
6. Mitra, J. (2007) 'Public-Private Partnerships to Exploit Translational Medicine: The Translational Medicine Research Collaboration (TMRC) and its Implications for the Future of Pharmaceutical Innovation', ESRC Genomics Network Conference, London, 25th October
7. Mitra, J. (2004) 'The Merger of Sanofi and Aventis: The Encroachment of Politics on 'Business Rationality' – Innogen Retreat, University of Cranfield, 22 October
8. Mitra, J. (2004) 'Life Science Innovation and the Pharmaceutical Sector', Innogen/Cesagen Joint Workshop, University of Edinburgh, 1 April
9. Mitra, J. (2003) 'Innovation Processes in Genomics-Related Industry Sectors', Innogen Annual Retreat, The Burn, March 20
10. Mitra, J. (2001) 'Genetic Testing and Life Insurance: A Legislative Nightmare', Postgraduate Forum on Genetics and Society 5th Colloquium, University of Nottingham, June 20
11. Mitra, J. (2001) 'The Use and Abuse of Biology: Eugenics, Evolutionary Psychology and the Future of Social Science', Social Theory Seminar Series, Department of Sociology, University of Warwick, November 10

I have also organised various workshops/talks for PhD Students in the School of Social and Political Science in 2016 and 2017 in my role as Deputy Director (Research) in the Graduate School.

'End of First Stage Review and Confirmation of PhD Registration' – This workshop demystifies the First Year Review process, by providing students with a clear understanding of the purpose and structure of the review

'Viva Survival' – Workshop to demystify and give an overview of the PhD viva.

'Careers in Academia': Talk to PhD students about academic careers.

CONTRIBUTIONS TO NATIONAL ADVISORY BODIES

2004: Co-authored (with Prof Joyce Tait) Innogen's Response to the Royal Society's Call for Evidence on Pharmacogenetics, December 2004.

2009: Authored Innogen's Response to Human Genetics Commission Enquiry into Direct to Consumer Genetic Tests

2009: Authored Innogen's Response to Nuffield Counsel on Bioethics Consultation on Medical Profiling and Online Medicine

LIST OF PUBLICATIONS

BOOKS PUBLISHED

1. **Mittra, J.** (2016) *The New Health Bioeconomy: R&D Policy and Innovation for the 21st Century*, (Palgrave Macmillan: Basingstoke)

Reviewed by John Gardner in *New Genetics and Society*, March 2017
<http://www.tandfonline.com/doi/full/10.1080/14636778.2017.1299569>

Endorsements

"This is an important, provocative and exciting book. Built on rigorous and innovative research, it challenges conventional wisdom and raises fundamental questions about how the new biology-based research is transforming healthcare, the economy, and society as a whole." - Luigi Orsenigo, Professor of Applied Economics, IUSS (Institute for Advanced Studies of Pavia), Italy

"Today we are in the midst of a turbulent period in the transformation of the way health benefits are delivered through targeted science. Mittra does a great service in this book. He reconceptualises the health bioeconomy, drawing on considerable empirical analysis and emphasising the quintessential interdisciplinarity of the area, as well as how society is redefining value. All those engaged in this field should read this book--it contains significant wisdom and points a way forward that promises tangible benefit to humankind, as well as economic success." - Iain Gillespie, Professor, Innogen Institute, University of Edinburgh, UK, and former Head of the Biotechnology Division, Organisation for Economic Co-operation and Development

“The ‘new biology’ that Mitra writes about will impact all our lives in multiple ways. He provides an original and convincing analysis of the complex organizational and institutional architecture emerging around the science and technology, and provides a fascinating and useful conceptual apparatus to help us think about how we should value new products and processes. I highly recommend The New Health Bioeconomy for all students, academics, researchers, and policy thinkers, whose worlds are being changed by this new science and technology.” - Joanna Chataway, Director of the Innovation, Health and Science Group, RAND Europe and Professor of Biotechnology and Development, Open University, UK

BOOKS EDITED

1. **Mitra, J & C. Milne** (eds) (2013) *Translational Medicine: The Future of Therapy?* Pan Stanford: Singapore

Endorsement

This is a book that should be read by all those aiming to improve the efficiency and effectiveness of translation of science into clinical practice and health outcomes. Unlike other contributions in the field, it takes a holistic approach to the problem and recognises the dynamic nature of demand for as well as supply of health innovation, identifying strategies to integrate the two. This book has been needed for some time, but, with stagnating productivity and ever-increasing economic pressures, never more so than right now.”
(Prof. Iain Gillespie, The University of Edinburgh, UK)

ARTICLES PUBLISHED AS SOLE AUTHOR (ALL REFEREED)

1. **Mitra, J.** (2013) ‘Repairing the ‘Broken Middle’ of the Health Innovation Pathway: Exploring Diverse Practitioner Perspectives on the Emergence and Role of ‘Translational Medicine’, *Science and Technology Studies*, 26 (3): 103-123
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