

CV – Dr Kevin R. Smith

Senior Lecturer, Bioethics & Genetics

Professional Qualifications

- 2005 PhD, The Prospects for Human Germline Genetic Modification: Scientific and Bioethical Considerations, Abertay University
- 1987 BSc (Hons) Genetics (2/1), Glasgow University
- 1991 PGCE(S) (Distinction), Northern College of Education

Professional & Employment History

- 2008 - Senior Lecturer, University of Abertay Dundee
- 1991 - 2008 Lecturer, University of Abertay Dundee
- 1991 - 1994 Lecturer, Dundee Institute of Technology
- 1990 - 1991 Secondary School Teaching (PGCE Trainee), Biology / Science
- 1988 - 1990 Biology Demonstrator & Tutor (P/T, voluntary), University of Edinburgh
- 1989 - 1990 Biology Tutor (P/T), Edinburgh Teacher's Co-operative
- 1987 - 1990 Research Associate, University of Edinburgh
- 1986 - 1986 Laboratory Assistant, Dept. of Genetics, Glasgow
- 1983 - 1985 General Assistant, Sinclair McGill R&D, Ayr

University Activities (2006 - to date)

Major Administrative Roles:

- 2015- Chair, University Research Ethics Committee
- 2005- Programme Leader, BSc (Hons) Biomedical Science (BMS)

Teaching:

Teach on a range of undergraduate and postgraduate modules, delivering genetics and bioethics topics.

External Examiner posts (current)

- 2015 - Biosciences and Biomedical Sciences, University of East London.
- 2015 - Biosciences and Biomedical Sciences, University of West of Scotland.

Research

I am particularly interested in researching ethical issues arising in respect of so-called 'Complementary and Alternative Medicine' (CAM) and genetics ('genethics'). In terms of CAM, I apply bioethical analysis to CAM ethics in general and particularly to the pseudoscientific modality of homeopathy. My conclusions from such analyses, thus far, have been highly negative: there are serious ethical concerns surrounding CAM - and I believe that these issues need to be articulated in order to prevent patient harm and maximise support for scientific medicine.

In terms of output, excluding publications since 2015, which are too new to have generated significant citations, my journal papers have generated an average of 21 citations each, with the top paper generating 154 citations. This is a high citation rate, particularly considering that bioethics articles are cited at a much lower rate than empirical scientific or medical papers. Moreover, around 75% of my research output is in the form of single-author papers. Most of the remainder of my articles have 2-4 authors; only 2 articles have more than 4 authors.

Several of the journals I publish in are particularly highly ranked in their field. The most prominent are the Journal of Medical Ethics (JME) and the Bioethics journal. I have published a total of 7 articles in these two journals.

The JMEs is the world's top-ranked journal in bioethics for 2015 according to Google Scholar Metrics, with an impact factor of 1.511 and an h5-index of 28; and the Bioethics journal is ranked 4th, with an impact factor of 1.483 and an h5-index of 22.

My research has received national and international attention beyond academia, leading to media coverage including TV, radio and print media interviews. Due to my research-related esteem, I have often been asked to provide views on topical matters of medical science and ethics, including media interviews, debates and solicited commentaries.

Publications

Journal Articles

- Smith, K., Colquhoun, D., Ernst, E. & Sampson, W. Complementary & Alternative Medicine' (CAM): Ethical And Policy Issues. *Bioethics*, 2016; 30(2): SI 60-62.
- Smith, K. Religion, Secular Medicine and Utilitarianism: a Response to Biggar. *Journal of Medical Ethics*, 2015; 41(11): 867-869.
- Smith, K. Paternal Age Bioethics. *Journal of Medical Ethics*, 2015; 41(9): 775-779.
- Smith, K. Synthetic Biology: A Utilitarian Perspective. *Bioethics*, 2013; 27(8): SI 453-463.
- Smith, K., Chan, S. & Harris, J. Reply: Human Germline Genetic Modification: Scientific and Bioethical Perspectives. *Archives of Medical Research*, 2013; 44(4): 323-323.
- De Vasconcelos, A., Campos, V.F., Nedel, F., et al. Cytotoxic and apoptotic effects of chalcone derivatives of 2-acetyl thiophene on human colon adenocarcinoma cells. *Cell Biochemistry and Function*, 2013; 31(4): Volume: 289-297.
- Smith, K., Chan, S. & Harris, J. Human Germline Genetic Modification: Scientific and Bioethical Perspectives. *Archives of Medical Research*, 2012; 43(7): 491-513.
- Smith, K. Homeopathy is Unscientific and Unethical. *Bioethics*, 2012; 26(9): 508-512.
- Smith, K. Why homeopathy is unethical. *Focus on Alternative and Complementary Therapies*, 2011; 16(3): 193-251.
- Oliveira, R.S., Collares, T.F., Smith, K., et al. The use of genes for performance enhancement: doping or therapy? *Brazilian Journal of Medical and Biological Research*, 2011; 44(12): 1194-1201.
- Smith, K. Factors influencing the inclusion of complementary and alternative medicine (CAM) in undergraduate medical education. *BMJ Open*, 2011; 1(1): Art. No. e000074.
- Smith, K. Against Homeopathy – A Utilitarian Perspective. *Bioethics*, 2011; 26(8): 398-409.
- Smith, K. Anomalous therapies and public health: A utilitarian bioethical response. *Public Health Nursing*, 2008; 25(3): 269-277.
- Sampson, W. & Smith, K. Word Use and Semantics in “Alternative Medicine”; a Survey of Editors of Medical & Related Journals. *Medscape General Medicine*, 2008; 10(5): 125.
- Smith K. & Spadafora, C. Sperm-mediated Gene Transfer: Applications and Implications. *BioEssays*, 2005; 27(5): 551-562.
- Smith, K. Biomedical Ethics: A Utilitarian Perspective. *International Journal of Ethics*, 2005 5(3-4):179-196.
- Smith K. Gene Therapy: The Potential Applicability of Gene Transfer technology to the Human Germline. *International Journal of Medical Science*, 2004; 1(2): 76-91.
- Smith, K. The Ethics of Anomalous, Unconventional Therapies: A Utilitarian Response. *The Scientific Review of Alternative Medicine*, 2003;7(1):26-28.
- Smith, K. Gene Therapy: Theoretical and Bioethical Concepts. *Archives of Medical Research*, 2003; 34(4): 247-268.
- Smith, K. Problems of Affluence in Morality. *Philosophy Now*, 2002; (38):28-31.

- Smith, K. Animal Genetic modification - A Utilitarian Response. *Bioethics*, 2002; 16(1): 55-71.
- Smith K. Gene Transfer in Higher Animals: Theoretical Considerations and Key Concepts. *Journal of Biotechnology*, 2002; 99(1):1-22.
- Smith K. The Role of Sperm-Mediated Gene Transfer in Genome Mutation and Evolution. *Medical Hypotheses*, 2002; 59(4): 433-437.
- Smith K. Theoretical Mechanisms in Targeted and Random Integration of Transgene DNA. *Reproduction Nutrition Development*, 2001; 41(6) :465-485.
- Smith K. Sperm Cell Mediated Transgenesis: A Review. *Animal Biotechnology*, 1999; 10(1-2): 1-13.

Book Chapters

- Smith, K. Animal Genetic modification - A Utilitarian Response. (Chapter in edited book 'The Animal Ethics Reader', Eds Armstrong & Botzler, 2008, Routledge, London. ISBN-13: 978-0415775397.)
- Smith, K. Human Germline Genetic Modification - a Utilitarian Bioethical Perspective. (Chapter in edited book 'Trends in Gene Therapy Research', 2005, Nova Publishers, New York. ISBN 1-59454-306-2.)

Book

- Smith, K (ed). *Sperm-Mediated Gene Transfer: Concepts and Controversies*. 2012. Bentham Science Publishers. ISBN: 978-1-60805-432-9.

Submitted (under peer review)

- Archibald, K. & Smith, K. Factors influencing undergraduate students' attitudes towards mitochondrial replacement therapy. (*Scottish Medical Journal*.)