

Ethics-related articles and resource list

Selected articles on Learning and Teaching in Bioethics

Bond, A., Bullen, V. and Elliott, R. (2002) Lessons learned from a bioscience ethics module. *Bioscience Bulletin* 5 (Spring 2002), p4. Published by the UK Centre for Bioscience, available at www.bioscience.heacademy.ac.uk/resources/bulletin.aspx

Bryant, J.A. and Baggott La Velle, L. (2003) A bioethics course for biology and science education students. *Journal of Biological Education* 37(2): 91-95.

Bryant, J.A. and Morgan, C.L. (2007) Attitudes to Teaching Ethics to Bioscience Students: an Interview-based Study Comparing British and American University Teachers. *Bioscience Education E-journal*, 9-3 available at www.bioscience.heacademy.ac.uk/journal/vol9/beej-9-3.aspx

Clarkeburn, H., Downie, J.R. and Matthew, B. (2002) Impact of an Ethics Programme in a Life Sciences Curriculum. *Teaching in Higher Education* 7(1): 65-79.

Cook, D. (2002) The basic tenets of teaching ethics to bioscience students. *Bioscience Bulletin* 7 (Autumn 2002), p4. Published by the UK Centre for Bioscience, available at www.bioscience.heacademy.ac.uk/resources/bulletin.aspx

Downie, R. and Clarkeburn, H. (2005) Approaches to the Teaching of Bioethics and Professional Ethics in Undergraduate Courses. *Bioscience Education E-journal*, 5-2 available at www.bioscience.heacademy.ac.uk/journal/vol5/beej-5-2.aspx

Pearce, R.S. (2004) (unpublished) The case for teaching ethical theory in teaching bioethics – The need to teach thinking. Available at www.bioscience.heacademy.ac.uk/ftp/events/leics/pearce.pdf

Willmott, C.J.R. and Wellens, J. (2004) Teaching about bioethics through authoring of websites. *Journal of Biological Education* 39 (1): 27-31.

Willmott, C.J.R., Bond, A.N., Bryant, J.A., Maw, S.J, Sears, H.J. and Wilson, J.M. (2004) Teaching Ethics to Bioscience Students – A survey of Undergraduate Provision. *Bioscience Education E-journal*, 3-9 available at www.bioscience.heacademy.ac.uk/journal/vol3/beej-3-9.aspx

Willmott, C.J. and Bryant, J.A. (2005) Engaging with the ethical implications of science. In *Proceedings of The Science Learning and Teaching Conference 2005, 27-28 June, University of Warwick*. ISBN 1903815150, available at www.bioscience.heacademy.ac.uk/ftp/events/sci_lt05/w2willmott.pdf

Willmott, C.J. (2006) Never again shout, “that WOULD have been useful for my teaching!” at the TV. *Bioscience Education E-journal*, 7-c1 available at www.bioscience.heacademy.ac.uk/journal/vol7/beej-7-c1.aspx

Willmott, C.J. (2007) As seen on TV: using video clips in science teaching In *Proceedings of The Science Learning and Teaching Conference 2007, 19-20 June, Keele University*. ISBN 978190578 8392, available at www.bioscience.heacademy.ac.uk/ftp/events/sltc07/papers/p39willmott.pdf

Willmott, C. and Willis, D. (2008) The increasing significance of ethics in the bioscience curriculum. *Journal of Biological Education* 42: 99-102

Also, see the web pages of the UK Centre for Bioscience Special Interest Group on Teaching Ethics to Bioscience Students www.bioscience.heacademy.ac.uk/network/ethicsig.aspx

Reports and presentations from our previous ethics events:

- Teaching Ethics to Bioscience Students: Sustainability and the Environment; Cardiff University, 9th December 2009
- Teaching Ethics to Bioscience Students; University of Cambridge, 16th December 2008
- Teaching Ethics to Bioscience Students; Erlas Centre, Wrexham, 1st November 2006
- Teaching Ethics to Bioscience Students: Challenges Old and New; Belfast Castle, Northern Ireland, 7th December 2005
- Teaching Ethics to Bioscience Students: Engaging with the Issues; University of Leicester, 16th December 2004
- Ethics Teaching: one dilemma after another? University of Bristol, 26th February 2004
- Teaching Ethics to Bioscience Students; University of Stirling, 12th February 2003
- The Rights and Wrongs of Teaching Ethics to Bioscience students; University of Westminster, 22nd May 2002

Links to all the above events are available through the Ethics SIG page at:

www.bioscience.heacademy.ac.uk/network/ethicsig.aspx

Printed materials

An Intelligent Person's Guide to Ethics

Warnock, M. (2001) Gerald Duckworth & Co. Ltd, ISBN 0715628410

Biodiversity - a Beginner's Guide

Spicer, J. (2006) Oneworld Publications, ISBN 1851684719

Bioethics: A Philosophical Introduction

Holland, S. (2003) Polity, ISBN 0745626181

Bioethics - an Anthology

Kuhse, H. and Singer, P. (eds) (1999) Blackwell, ISBN 0631203117. "Strong medical orientation but still very useful" *Professor John Bryant, University of Exeter*

Bioethics: An introduction for the biosciences

Mepham, B. (2008) 2nd edition, Oxford University Press, ISBN 0199214303

Review of first edition available from *Bioscience Education E-journal* at

www.bioscience.heacademy.ac.uk/journal/vol6/beej-6-r4.aspx

Bioethics Briefings

This series of briefings, written by Chris Willmott (University of Leicester) and John Bryant (University of Exeter) are intended to help teachers deal with various ethical topics. The briefings are in pdf format and contain a balance of scientific and ethical input, plus case studies and examples of ethics news items and other resources. The topics covered are Ethics and Bioethics; Genetically Modified Crops; Preimplantation Genetic Diagnosis (PGD), Xenotransplantation, Stem Cells and Issues at the End of Life. Copies may be downloaded from www.bioscience.heacademy.ac.uk/resources/ethicsbrief.aspx



Bioethics for Scientists

Bryant, J.A., Baggott La Velle, L.M. and Searle, J.F. (eds) (2002) John Wiley and Sons, ISBN 0471495328

Bioscience Ethics

Pollard, I. (2009) Cambridge University Press, ISBN 0521745276

Clinical Ethics: A practical approach to ethics decisions in clinical medicine

Jonsen, A.R., Siegler, M. and Winslade, W.J. (2002) 6th edition, McGraw-Hill Medical, ISBN 0071441999

Engineering Genesis: The ethics of genetic engineering in non-human species

Bruce, D. and Bruce, A. (eds) (1998) Earthscan, ISBN 1853835706

"Although originating in a Church of Scotland working party, is not particularly 'religious'." *Professor John Bryant, University of Exeter.*

Environmental Ethics: An Overview for the Twenty-First Century

Attfield, R. (2003) Polity, ISBN 0745627382

Environmental Issues: An introduction to sustainability

McConnell, R.L. and Abel, D.C. (2007) 3rd edition, Prentice Hall, ISBN 0131566504

"Very USA-oriented but still good for environmental ethics" *Professor John Bryant, University of Exeter.*

Ethical Studies

Bowie, R. and Thornes, N. (2001) 2nd edition, Nelson Thornes Ltd, ISBN 0748780793

"Designed as a course text for AS and A level students, this book offers an introduction to the principal ethical theories. Whilst inadequate for a philosophy degree this is nonetheless an ideal start point for bioscientists keen to have a handle on broader ethical thinking. The summaries at the start and finish of each chapter are particularly helpful." *Dr Chris Willmott, University of Leicester.*

Food Ethics

Mepham, T.B. (ed) (1996) Routledge (now taken over by Taylor and Francis), ISBN 0415124522

Introducing Ethics (published previously as "Ethics for Beginners")

Robinson, D. and Garratt, C. (1996) Icon Books, ISBN 1840460776

"In keeping with the general style of the "Introducing..." series, this book makes extensive use of cartoons and graphics to enhance the readability whilst retaining adequate content for an introductory text on ethics." *Dr Chris Willmott, University of Leicester.*

Introduction to Bioethics

Bryant, J., Baggott La Velle, L. and Searle, J. (2005) John Wiley and Sons, ISBN 0470021985

Review available from *Bioscience Education e-Journal* at

www.bioscience.heacademy.ac.uk/journal/vol6/beej-6-r3.aspx

Issues in Agricultural Bioethics

Mepham T.B., Tucker, G.A. and Wiseman, J. (eds) (1995) Nottingham University Press, ISBN 1897676514

Issues Series

Donnellan, C. (ed) Independence (www.independence.co.uk/)

A series of 200 or so regularly updated titles and supporting web site, including:

Vol 146 – Sustainability and the Environment, ISBN 9781861684196

Vol 152 – Euthanasia and the Right to Die, ISBN 9781861684394

Vol 169 – The Animal Rights Debate, ISBN 9781861684738

Vol 178 – Reproductive Ethics, ISBN 9781861685025

"40 page A4 booklets full of resources (e.g. short articles, news clippings) for discussion starters etc." *Dr Andy Bond, University of Westminster.*

Life and Death in Healthcare Ethics: A short introduction

Watt, H. (1999) Routledge, ISBN 0415215749

Life in Our Hands

Bryant, J. and Searle, J. (2004) Inter-Varsity Press, ISBN 0851117953

Medical Ethics

Campbell, A., Jones, G. and Grant, G. (2001) 3rd edition, Oxford University Press, ISBN 0195584457

Medical Ethics Today: Its Practice and Philosophy

British Medical Association Ethics Department (2003) 2nd edition, BMA, ISBN 0727917447

Medical Ethics: A case-based approach

Schwartz, L., Preece, P.E. and Hendry, R.A. (2002) Saunders, ISBN 0702025437

Morality Matters

Trigg, R. (2004) Blackwell, ISBN 0631235957

Responsible Conduct of Research

Shamoo, A. and Resnik, D. (2003) Oxford University Press, ISBN 0195148460

School Science Review – Issue 315 December 2004; ASE

This issue is on the theme of ethics; some of the content may be adaptable to your situation. Some of the material is open access, most is members only. Further details available at

www.ase.org.uk/html/journals/ssr/

The Ethics Toolkit: A Compendium of Ethical Concepts and Methods

Baggini, J. and Fosl, P. (2007) Blackwell, ISBN 1405132310

The Ethical Dimensions of the Biological and Health Sciences

Bulger, R.E., Heitman, E. and Reiser, S.J. (eds) (2002) 2nd edition, Cambridge University Press, ISBN 0521008867

The Practical Guide to Medical Ethics and law

Baxter, C., Brennan, M.G., Coldicott, Y. and Möller, M. (2002) 2nd edition, PasTest, ISBN 1904627315

The Troubled Helix: Social and Psychological implications of the New Human Genetics

Marteau, T. and Richards, M (eds) (1996) Cambridge University Press, ISBN 0521462886
"Science is slightly dated but all the ethical issues are very much alive." *Professor John Bryant, University of Exeter*

Software

Anderson, D., Cavalier, R., and Covey, P.R. *Right to Die: The Dax Cowart Case (CD-ROM)*

Routledge, ISBN 0415917530.

Websites

BBC

www.bbc.co.uk/

"Obvious? Yes - but also versatile. The increasing availability of online news footage adds to the value of what was already an excellent resource". *Dr Chris Willmott, University of Leicester.*

BEEP – BioEthics Education Project

www.beep.ac.uk

Resources for the teaching of ethics in Post-16 and A-level biology.

Bioedge

www.bioedge.org

"Bioedge is a weekly update on recent bioethics stories. Based in Australia, they pick up on breaking news around the world. I recommend subscribing to the weekly e-mail alert - a very useful way to keep in touch with issues you may otherwise have missed." *Dr Chris Willmott, University of Leicester.*

www.bioscience.heacademy.ac.uk/ftp/ethics/bioethresources.pdf

Last updated: 06/05/2011

BioethicsBytes

<http://bioethicsbytes.wordpress.com/>

"A repository for suggestions about bioethics-related clips in films, TV programmes and news footage as case studies and discussion starters for teaching" *Dr Chris Willmott, University of Leicester.*

Bioethics Resources on the Internet - National Institutes of Health

<http://bioethics.od.nih.gov/>

"A USA-based portal, with well signposted links to both their own papers and material on specific topics posted elsewhere." *Dr Chris Willmott, University of Leicester.*

BioethicsWeb – Intute (formerly Bioethics on the Internet – Wellcome Trust)

www.intute.ac.uk/bioethicsweb/

"A portal rather than a place to end up. A thorough listing of the best other bioethics sites on the internet - regulatory bodies in the UK, and other bioethics sites in the USA and elsewhere." *Dr Chris Willmott, University of Leicester.*

The Christian Medical Fellowship

www.cmf.org.uk/

"The website of the Christian Medical Fellowship. You would perhaps assume you know WHAT this site is going to say about a certain issue (and you're probably right!) But what you get additionally is the reasons WHY they say it. A good collection of briefing papers and submissions to ethical reviews from a Christian perspective. Perhaps helpful if you are asking student to review the diversity of opinion on a particular topic. Well indexed but without a search engine." *Dr Chris Willmott, University of Leicester.*

Ethical, Legal and Social Implications - Human Genome Project

www.ornl.gov/sci/techresources/Human_Genome/elsi/elsi.shtml

"When the Human Genome Project was conceived a percentage of the expenditure was ring-fenced for research into the ethical, legal and social implications. This is where you see the money spent." *Dr Chris Willmott, University of Leicester.*

Ethical Matrix

www.ethicalmatrix.net/

"Authored by Ben Mepham (then at University of Nottingham, now University of Lincoln), funded by Compassion in World Farming, this is a worked example of Mepham's ethical matrix concept applied to the specific area of animal farming. This may not be a subject of direct relevance to you or your students, but it is worth taking a look at the site for ideas about how you might adapt the matrix approach to evaluation of a different topic." *Dr Chris Willmott, University of Leicester.*

Ethics Update

<http://ethics.sandiego.edu/>

"Established and edited by Lawrence Hinman (University of San Diego), this is a thorough repository of material on a wide range of ethical concepts and associated philosophers." *Dr Chris Willmott, University of Leicester.*

Newsfilm online

www.nfo.ac.uk

"Members of the British Universities Film and Video Council can access this archive of selected ITN news reports which include a number of bioethics-related reports. The clips can be downloaded for use offline." *Dr Chris Willmott, University of Leicester*

Nuffield Council on Bioethics

www.nuffieldbioethics.org/

"In many ways the 'home' of bioethics with a UK focus. There are reports and discussion papers here on issues ranging from genetic screening, to xenotransplantation and to the ethics of healthcare research in developing countries. A 'copy' of the site was also distributed with Nature in autumn 2002." *Dr Chris Willmott, University of Leicester.*

Television and Radio Index for Learning and Teaching

www.trilt.ac.uk

A fantastic 'early warning' system run by the British Universities Film and Video Council. Alerts you about forthcoming TV and radio programmes matching any keyword(s) you choose to include, with a weekly e-mail message. (As mentioned in; Never again shout, "that WOULD have been useful for my teaching!" at the TV, by Dr Chris Willmott,

www.bioscience.heacademy.ac.uk/journal/vol7/beej-7-c1.aspx)

ETHICS Project

This project involved six Subject Centres including Bioscience. The purpose of the project was to collectively examine the current provision of professional and academic ethics teaching across a number of cognate subject disciplines. The project web site contains: a database of case-studies/contextualised scenarios and documents on assessment, benchmarks, confidentiality and consent. Also, the Project's hardcopy guide: Approaches to Ethics in Higher Education: Teaching Ethics across the Curriculum is available for downloading from

www.prs.heacademy.ac.uk/projects/ethics/

Four mini-projects were funded as part of the ETHICS project, including one in biosciences:

Development, pilot delivery and evaluation of an internet based module on Scientific Integrity for Bioscientists

Prof. Valerie McKelvey-Martin, School of Biomedical Sciences, University of Ulster at Coleraine. An internet based module on Scientific Integrity for Bioscientists was developed at the University of Ulster. The module was designed so that components of it could be taken by final year BSc Hons students, PgD/MSc students, Master of Research students and the whole module by PhD students in the Biosciences. Further information is available from:

www.bioscience.heacademy.ac.uk/ftp/events/bristolethics/valerie.pdf

McKelvey-Martin, V (2003). Scientific Integrity bibliography and web resource list

www.bioscience.heacademy.ac.uk/ftp/ethics/scientific_integrity_biblio.pdf

Thank you to Professor John Bryant (University of Exeter), Dr Chris Willmott (University of Leicester), Dr Any Bond (University of Westminster) and Professor Valerie McKelvey-Martin (University of Ulster at Coleraine) for their resource suggestions.