Online Ethics Center
FOR ENGINEERING AND SCIENCE

Resources

Description

Part of unit 4 of the Course on Genomics, Ethics, and Society, this is a bibliography of recent news articles, academic articles, websites, videos, and other resources on ethics, genomics, and domesticated animals.

Body

News Stories on Genomics and Animals

- Animal Biotechnology site - Constantly updated site featuring many news stories on animal biotechnology (among other things).
- Science Daily - Science news site - this page is on cloning.

Websites of Relevant Individuals and Institutions

- USDA link to a number of sites on biotechnology including animal biotechnology
- Biotechnology Industry Organization website - This Biotechnology Industry Organization website has a number of links to papers on animal biotechnology and welfare.
- Animal Genomics and Biotechnology site, UC Davis

Links to Commentaries and Papers

- Citations for publications about the first transgenic animals:
  - Gordon JW, Ruddle FH. Integration and stable germ line transmission of genes injected into mouse pronuclei. Science. 1981;214(4526):1244–1246. [PubMed]
  - Palmiter RD, Brinster RL, Hammer RE, Trumbauer ME, Rosenfeld MG, Birnberg NC. et al. Dramatic growth of mice that develop from eggs microinjected with metallothionein-growth hormone fusion genes. Nature. 1982;300(5893):611–615. [PubMed]
  - Palmiter RD, Norstedt G, Gelinas RE, Hammer RE, Brinster RL. Metallothionein-human GH fusion genes stimulate growth of mice. Science. 1983;222(4625):809–814. [PubMed]
- The current state of GMO Governance - 2012 paper in Biotechnology Advances. Here's the abstract: "Given the history of GMO conflict and debate, the GM animal future is dependent on the response of the regulatory landscape and its associated range of interest groups at national, regional and international levels. Focusing on the EU and the USA, this article examines the likely form of that multi-level response, the increased role of cultural values, the contribution of new and existing interest groups and the consequent implications for the commercialization of both green and red GM animal biotechnology."
- Governing the moral economy: Animal engineering, ethics, and the liberal goverment of science - Open access paper in journal Social Science and Medicine (2012). Here's the abstract: "The preferred Western model for science governance has come to involve attending to the perspectives of the public. In practice, however, this model has been criticised for failing to promote democracy along participatory lines. We argue that contemporary approaches to science policy making demonstrate less the failure of democracy and more the success of liberal modes of government in adapting to meet new governance challenges. Using a case study of recent UK policy debates on scientific work mixing human and animal biological material, we show first how a ‘moral economy’ is brought into being as a regulatory domain and second how this domain is governed to align cultural with scientific values. We suggest that it is through these practices that the state assures its aspirations for

enhancing individual and collective prosperity through technological advance are met."

Links to useful videos

- Talk by Alison Van Eenennaam on whether genetically engineered salmon should be allowed - Talk that's useful for the case study in this unit.
- Half hour introductory video from University of California TV on animal biotechnology (you need to skip the ad!)
- Interview with famous ethicist Peter Singer about animal ethics

Continue to Recommended Readings and Online Resources

Rights

Resource Type

Instructor Materials

Topics

Animal Use
Emerging Technologies
Risk

Discipline(s)

Genetics and Genomics
Biomedical Engineering and Bioengineering
Life and Environmental Sciences