What is Agricultural Ethics?

In general, ‘ethics’ is defined as the ideals, values or standards that people use to determine whether their actions are good or bad. It is what society uses to judge whether an issue or practice is right or wrong. It is the moral standard that helps determine what is right and wrong actions and policies. Agricultural ethics (CAST, 2005) notes that ultimately, the goal of agricultural ethics is to “discover or develop clear, non-contradictory, comprehensive, and universal standards for judging right and wrong actions and policies.”

Conclusion

Despite the diversity of ethical issues in agricultural biotechnology, there is a need to understand beliefs and doctrines as this allows coexistence within and across societies, and prevents social conflict. An understanding of ethics helps determine what information is needed by society and how to deal with different opinions. A process of negotiation based on trust is essential to enable stakeholders to participate in debates and decision making.
What are some ethical issues raised about agricultural biotechnology?

Many of the ethical issues that form part of the biotechnology debate can apply also to food and agricultural systems in general. Accepting the need to understand and tolerate societal norms or beliefs, many statements of concern are often general and broad with little explanation about what makes them disagreeable or wrong. The following are examples of issues more clearly articulated by Kinderlerer and Adcock (2003); CAST (2005); the Food and Agriculture Organization of the United Nations (2001), and Thompson (2001).

“Playing God”

Genetic modification is said to involve human intervention into creation and hence, is an unnatural act. Often viewed as a religious question, it avers that the technology is “so intrusive to life processes that they amount to a form of disrespect for humanity’s proper relationship to nature, a form of playing God” (Comstock cited by CAST, 2005). Some religions ascribe a particular “essence” to each living organism and hence, connect the concept of gene with the idea of essence. Others believe that biotechnology disrupts natural order and violates the limits of what humans are ethically permitted to do. Alternatively, there is the view that science and progress are good things and are God-given faculties to help mankind support life and better manage the environment.

Religion and Agricultural Biotechnology

The religious sector, notably the Roman Catholic Church and the Muslim faith, have voiced their views on biotechnology. Islamic scholars note that Islam and science are complementary and Islam supports beneficial scientific innovations to address food security (Workshop Proceedings, 2010).

Biotechnology, in particular, becomes an issue when it entails a discourse on food. Any GM food must meet the general criterion of halalan tayyiban which means “permissible from the shariah perspective (halal) and of good quality (tayyib)”. In Malaysia, there is a fatwa (religious decree) that states that GM foods with DNA from pigs are haram (not permissible) for Muslims to eat. To date, only this fatwa has been issued (MABIC, 2004).

The Jubilee of the Agricultural World Address of John Paul II in 2000 mentioned that in agricultural production or in the case of biotechnology, it must not be evaluated solely on the basis of immediate economic interest but through rigorous scientific and ethical examination (Vatican, 2000). By October 2004, the Pontifical Council for Justice and Peace released the Compendium of the Social Doctrine of the Church which is an “overview of the fundamental framework of the doctrinal corpus of Catholic social teaching.” Biotechnology is mentioned as having powerful social, economic, and political impact but that it should be used with prudence, objectivity, and responsibility (Vatican, 2004).

General Welfare and Sustainability

A central issue is whether the technology considers the pursuit of the greatest good together with the concept of sustainability for farmers and the environment. While a technology can provide more food it should not be to the detriment of the environment or to human health or disrupt traditional behavioral systems. In like manner, it is an ethical issue if food that can provide more and better nutrition is not made available to those who need it most. Hence, not to use a technology that has potential to improve the quality of lives of people is also a moral issue. As an environmental issue, questions raised have to do with concerns regarding environmental protection, sustainable use of biodiversity, economic growth and social equity.

Distribution of Benefits and Burdens

A concern particularly in developing countries is the concept of just distribution. Questions have to do with whether the products produced by the technology will be able to provide for those who really need them and whether they will generate wealth for the society as a whole. A technology’s ability to increase or decrease the gap between the rich and poor renders it an ethical issue. This includes allegations that products derived from modern biotechnology are being introduced by private companies that have an obligation to make profits. Also up for discussion is whether a technology, while able to increase technical employment might eliminate subsistence labor as a result of replacing cultural operations.

Other concerns include exploitation or control over genetic resources, consumers’ choice and rights, and use of genetically modified animals.

How do we deal with ethical issues?

FAO (2001) recognizes that there is no single set of ethical principles sufficient for building a more equitable and ethical food and agricultural system. However, it recommends the following actions that individuals, states, corporations and voluntary organizations in the international community can take:

• Creating the mechanisms to balance interests and resolve conflicts
• Supporting and encouraging broad stakeholder participation in policies, programs, and projects
• Ensuring individuals, communities and nations to engage in dialogue, and ultimately, to do what is ethical
• Developing and disseminating widely the information and analyses necessary to make wise and ethical decisions
• Ensuring that decision-making procedures in international food and agriculture policy are well understood and transparent
• Fostering the use of science and technology in support of a more just and equitable food and agriculture system
• Ensuring that programs, policies, standards and decisions always take ethical considerations into account so as to lead to enhanced well-being, environmental protection and improved health
• Developing codes of ethical conduct where they do not currently exist.
• Periodically reviewing ethical commitments and determining whether or not they are appropriate, in the light of new knowledge and changes in circumstances

CAST (2005) suggests the need to institutionalize agricultural ethics. This involves a deliberate move to include some consideration of ethics in the actions, decisions, and policies that stakeholders in the food system create or support. Each stakeholder has to “accept the fact that if ethical issues are going to be understood, and if ethical conflicts are going to be resolved, it is our responsibility, within the limits of our place in the system, to understand and contribute.”