List of Tables

1.	Details of the people interviewed in FAO	139
2.	Regional representation in FAO	140
3.	Importance of ethical issues raised in FAO	144
4.	Institution surveyed and number of respondents in India	246
5.	Results of Indian Interviews regarding Food and Agriculture issues	248
6.	Results of Indian Interviews regarding Health Care issues	279
7.	Results of Indian Interviews regarding Medical Research issues	291

List of Figures

1.	Actors involved in global governance of biotechnology	34
2.	Inter-relationships between some components of the hypotheses	37
3.	Organizational Chart of FAO	40
4.	Percentage of those who did not mention any issue in	142
	each concept category in FAO	
5.	Issues under the concept category FOOD considered	147
	to be of major importance	
6.	Issues under the concept category RURAL DEVELOPMENT	156
	considered to be of major importance	
7.	Issues under the concept category INFORMATION considered	170
	to be of major importance	
8.	Issues under the concept category BIOTECHNOLOGY considered	183
	to be of major importance	
9.	Issues under the concept category SPONSORSHIP and FUNDING	196
	considered to be of major importance	
10.	Issues under the concept category ENVIRONMENT considered	213
	to be of major importance	
11.	Issues under the concept category ANIMAL ISSUES considered	233
	to be of major importance	
12.	Issues under the concept category PERSONNEL ISSUES considered	241
	to be of major importance	
13.	Percentage of those who did not mention any issue in each	247
	concept category in India	
14.	Issues under the concept category FOOD considered to be	249
	of major importance in India	
15.	Issues under the concept category RURAL DEVELOPMENT	254
	considered to be of major importance in India	
16.	Issues under the concept category INFORMATION considered	259
	to be of major importance in India	

17. Issues under the concept category BIOTECHNOLOGY considered	263
to be of major importance in India	
18. Issues under the concept category SPONSORSHIP and FUNDING	268
considered to be of major importance in India	
19. Issues under the concept category ENVIRONMENT considered	273
to be of major importance in India	
20. Issues under the concept category ANIMAL ISSUES considered	277
to be of major importance in India	
21. Ethical issues related to HEALTH CARE in India	280
22. Ethical issues related to MEDICAL RESEARCH in India	292
23. Schematic representation of the approval of genetic engineering in India	311
24. Schematic representation of the approval of clinical trials in India	313
25. Modern biotechnology has increased the discussion of the ethical issues	321
raised by science in society	
26. Importance of multi-stakeholder involvement in biotechnology	345
27. Foundation of ethical principles in the global governance of	352
biotechnology	

Abbreviations

ADG Assistant Director General

AIDS Acquired Immuno Deficiency Syndrome

APHIS The Animal and Plant Health Inspection Service

ASRM American Society for Reproductive Medicine

AVMA American Veterinary Medical Association

BSE Bovine Spongiform Encephalopathy

rBGH recombinant Bovine Growth Hormone

rBST recombinant Bovine Somatotropin

CAC Codex Alimentarius Commission

CBD Convention on Biological Diversity

CFC Chloro Fluoro Carbon

CGRFA Commission on Genetic Resources in Food and Agriculture

CICP Centre for International Crime Prevention of the United Nations

CITES Convention on International Trade in Endangered Species of Wild Fauna

and Flora

CE Committee on Ethics (FAO)

CGIAR Consultative Group on International Agriculture Research

CMS Convention on the Conservation of Migratory Species of Wild Animals

CSA Community Supported Agriculture

CSD Commission on Sustainable Development

CSO Civil Society Organization

DAC Development Assistance Committee (OECD)

DDT Dichloro-diphenyl-trichloroethane

DES Diethylstilboestrol

DG Director General

DNA Deoxyribonucleic acid

DST Department of Science and Technology (India)

ECOSOC Economic and Social council of United Nations

ELSI Ethical Legal Social Implications

EPA Environment Protection Agency

EU European Union

FAO Food and Agriculture Organisation of the United Nations

FCE Feed Conversion Efficiency

FDA Food and Drug Administration

GATT General Agreement on Tariff and Trade

GDP Gross Domestic Product

GE Genetic Engineering

GEAC Genetic Engineering Approval Committee

GM Genetic Modification or Genetically Modified

GMO Genetically Modified Organism

GR Genetic Resources

GRAS Generally recognized as safe

HACCP Hazard Analysis and Critical Control Point

HDR Human Development report (UNDP)

HIV Human Immunodeficiency virus

HUGO Human Genome Organisation

ICPD International Conference on Population and Development

ICTs Information and communications technologies

IEC Institutional Ethics Committee

IFAD International Fund for Agriculture Development

IOMC Inter-Organization Program for the Sound Management of Chemicals

IPGRI International Plant Genetic Resources Institute

IPM Integrated Pest Management

IPPC International Plant Protection Convention

IPR Intellectual Property Rights

IRB Institutional Review Board

ISRIC International Soil Reference and Information Centre

IVF In vitro Fertilization

LIFDC Low Income Food Deficit Countries

MNC Multinational Corporation

NACO National AIDS Control Organisation, India

NGO Non-governmental Organization

ODCCP United Nations Office for Drug Control and Crime Prevention

OECD Organisation for Economic Cooperation and Development

PAN Pesticide Action Network in UK

PBT Persistent Bio-accumulative and Toxic

PIC Prior Informed Consent

PPP People Participation Programme

R&D Research and Development

RAFI Rural Development Foundation International

RCGM Review Committee on Genetic Modification (India)

SCE Subcommittee on Ethics (FAO)

SPS Sanitary and Phytosanitary Agreement, (on Trade, WTO)

SRD Sustainable Rural Development

TCOR Emergency Operation and rehabilitation Division (TC Dept FAO)

TIFAC Technology Information, Forecasting and Assessment Council

TRIPS Trade Related Aspects of Intellectual Property Rights

TPS The Technology Protection System

UN United Nations

UNAIDS United Nations AIDS Program

UNCCD United Nations Convention to Combat Descriptication

UNDP United Nations Development Program

UNED United Nations Environment Development Program

UNEP United Nations Environment Program

UNESCO United Nations Educational, Scientific and Cultural Organisartion

UNESCAP United Nations Economic and Social Commission for Asia and the

Pacific

UNFCCC United Nations Framework Convention on Climate Change

UNFPA United Nations Population fund

UNHCR Office of the United Nations High Commissioner for Refugees

UNICEF United Nations Childern's Fund

UNICRI United Nations Interregional Crime and Justice Research Institute

UNRWA United Nations Relief and Works Agency for Palestine Refugees

USDA United States Department of Agriculture

USDA-ARS United States Department of Agricultures- Agricultural Research

Service

WB World Bank

WCARRD World Conference on Agrarian Reform and Rural Development

WCFSD World Commission on Forests and Sustainable Development

WFP World Food Program

WFS World Food Summit

WHC World Heritage Convention

WHO World Health Organisation

WTO World Trade Organisation