

Index

- A-T Children's Project 194
- ABCC6* gene 202
- Abdennadher, Monrad 248
- Abilene Paradox 245
- abortion 86, 96
- Abrahamsen, Rita 140
- accelerated authorization procedures 125–6
- advocacy groups 97, 107
 - patients *see* patient advocacy groups
- Africa *see also under* names of individual countries
 - biosafety 13, 171–90, 265
 - GM crops 174, 217, 224
 - GM food aid 175–6
 - governance 220–21
 - NGOs 217–21, 222, 224
- Africa Harvest International Foundation (AHarvest) 224, 226, 228
- African Agricultural Technology Foundation (AATF) 217, 225
- African Biotechnology Stakeholders Forum (ABSF) 225, 226–7, 228
- African Seed Biotech Program 223
- African Union (AU) 176, 177, 223
- AgBio 248
- AHarvest 224, 226, 228
- AIDS 112, 122, 123, 126, 156
- AIDS Action Council 123
- aims of book 11
- Alibek, Ken 145
- All-African Congress on Biotechnology 223, 225
- Alpha-1 Foundation 196, 200
- Anderson, Robert S. 159
- Anti Terrorism Crime and Security Act 2001 [UK] 137
- anticommons 206
- Aquinas, St Thomas 95
- ARdS *see* Sikasso Regional Assembly
- Aristotle 95
- Association des Organisations Professionnelles Paysannes (AOPP) 251
- ataxia telangiectasia 194
- auditors 149
- Australia 116, 241
- Australia Group 136
- Aventis 165
- AZT 112
- Bacon, Francis 145, 149
- Barry, Brian 24, 32, 40
- Beck, Ulrich 133, 141–4, 145, 148, 149
- Bellivier, Florence 211
- Benatar, Solomon 43
- Bentham, Jeremy 25–6
- Berg Report* 154
- Biggs, Stephen D. 156
- biobanks 8, 56–9 *see also* UK Biobank
- biolaw 93
- biological weapons 133, 137, 138, 143, 144, 145
- Biological Weapons Convention 1972 (BWC) 133, 134, 136
 - General Purpose Criteria 145–6
- biosafety
 - Africa 13, 171–90, 265
 - definitions 147, 183, 184
- biosciences *see* life sciences
- biosecurity
 - definition 147
 - United Kingdom 12, 133–52, 264, 267
- biotechnology *see* life sciences
- Biotechnology Research in an Age of Terrorism ...* 2004 138
- Biotechnology Trust Africa (BTA) 226
- Black Box warnings 123
- black boxing 182
- Blackburn with Darwen Citizens Jury 253
- Blakemore, Colin 99
- blockbuster orphans 124
- Bolivia 155
- Booz-Allen 117
- Botswana 181, 182, 183

- bottom up 9, 24
 Boyd, Kenneth M. 194
 Brazier, Margaret 81
 breakthrough innovation 118–19
 Bristol-Myers Squibb 165
 Brocher Foundation xv
 Brown, Gordon 239
 Brown, Louise 80
 Bruce, Ann ix, 12, 54–5
 Bryant, Peter ix, 13–14, 246, 263, 265, 267
 BSE 65
 Bt crops *see* GM crops
 Buchanan, Allen E. 30, 33, 34–5
 Buffet Foundation 217
 Bush, George D.W. 136
- California, University 198
 Cambridge, University 241
 Canada 116
 Canavan Foundation 196–9
 cancer 112, 122, 123, 143
 capitalism 27, 31, 40
 cardiofaciocutaneous syndrome 204
 Cartagena Protocol on Biosafety 161, 172, 180
Catalona case 210
 Center for International and Security Studies at Maryland 136
 Centro Internacional de Mejoramiento de Maíz y Trigo (CIMMYT) 157–8, 160
 CFC International 204
 change, technological 9–10, 107, 264
 Chataway, Joanna 6–7
 choice 67–8
 Chromosome 18 Registry and Research Society 194
 Citizens' Inquiry into the National DNA Database [UK] 241, 243
 citizens' juries 239–59
 Citizens' Space for Democratic Deliberation *see* l'ECID
 civil society 220, 229
 clinical trials website 122
 cloning, human 92
 cognitive justice 252–3
 Cohen, Gerald A. 36
- Cohen, June Maslow 30, 40
 Cold War 110, 133
 collaboration 52, 74 *see also*
 transnational governance
 Collective Environmental Farming 228–9
 colonial legacy, French 253–4
 commercialization 70, 71, 196, 197, 198
 Committee of Inquiry into Human Fertilisation and Embryology *see*
 Warnock Committee
 commons, tragedy of 206
 communitarianism 26–7, 38–40
 Compagnie Malienne de Développement des Textiles (CMDT) 247, 249
 consultation 69, 73, 74
 Consultative Group for International Agricultural Research (CGIAR) 158, 160
 contracts 200, 202, 209–11
 convergence 182
 Cooke, Bill 245
 Coordination Nationale des Organisations Paysannes du Mali (CNOP) 249
 cosmopolitanism 43–4, 45
 Costello syndrome 204
 cotton 217, 225, 249, 254
 Cure Autism Now 200
- Daniels, Norman 73
 Davies, Celia 242
 De Melo-Martin, Immaculada 34
 DebRA International 196
 deCODE genetics 57
 deliberative governance 240–41
 developing countries 12–13, 153–69
 see also under names of individual countries
 GM crops 153
 governance 153–5, 157, 167, 265, 266
 patient groups 210
 public-private partnerships 125
 Devlin, Patrick 93
 difference principle 23, 32, 35
difluoromethylornithine see eflornithine
 diseases
 infectious 137, 143, 145
 rare 110

- distributive justice *see* justice
- Diver, Colin S. 30, 40
- DNA database 243
- Donaldson, Sir Liam 99
- drug regulation [US] *see* Food and Drug Administration
- dual-use technologies 140
- Dupré, John 145
- Dutch Government 225, 226
- Dworkin, Ronald 24, 26, 32–3, 35, 81, 93
- Earle, Timothy C. 65–6
- l'ECID 13–14, 241, 246–56, 266, 267
- Economic and Social Research Council (ESRC) xv
- ESRC Innogen Centre xv, 114
- Economic Community of West African States 217
- eflornithine 12–13, 164–6, 167
- egalitarian liberalism 23–4, 32–5
- Eisenberg, Rebecca S. 206
- Elster, Jon 27
- embryos (human) 83–92, 97, 99
- employment discrimination 28–9, 35, 36, 37–8, 40
- Engels, Friedrich 27
- Enhanced Border Security and Visa Entry Reform Act 2002 [US] 139
- equality *see* inequality
- Espace Citoyen d'Interpellation Démocratique *see* l'ECID
- Ethics+ 12, 52, 72, 73, 260, 269
- ethics committees 71, 72
- eugenics 30–1, 34–5, 36–7, 39
- European Citizens' Panel on the future of rural areas 243–4
- European Union (EU) 5, 186, 243
- Committee for Orphan Medicinal Products (COMP) 116
- GM crops 161, 162–3, 222
- NGOs 222–3
- orphan drugs 116, 125
- Rare Disease Task Force (RDTF) 116
- Evans v. Amicus Healthcare Ltd* 94
- evidence-based decision-making 1, 2, 52, 58–9, 73–4, 164, 272
- extension services 155
- Farrelly, Colin 33
- fast track programme 12, 109, 114–19, 121, 123, 126–9, 268–9
- definition 112–13
- feminists 81–2
- Fink Report 138
- food aid *see* GM food aid
- Food and Drug Administration (FDA) [USA] 7–8, 9, 12, 109, 268–9
- Amendments Act 2007 (FDAAA) [US] 111, 113
- Continuous Marketing Application (CMA) pilot programme 122
- Office of Orphan Products Development (OOPD) 111
- Priority Review 117, 118
- Food and Drug Administration Modernization Act 1997 (FDAMA) [US] 112–13, 122
- Food Standards Agency [UK] 65, 241, 243, 251–2
- Foreign and Commonwealth Office [UK] 139
- France, colonial legacy 253–4
- Gates Foundation 217, 224
- Gaventa, John 244
- Genetic Alliance Biobank 196, 204
- genetic databanks *see* biobanks
- genetic discrimination 21, 28–30, 32, 37–8, 45
- Genetic Interest Group (GIG) 195
- genetically modified *see* GM
- Geneva Protocol 1925 133
- genomics 8–9
- definition 28
- innovation 126
- Germany 223, 241
- Global Genomics Initiative (GGI) 44
- globalization 107, 133, 135, 140, 141, 167, 171
- GM crops 5, 8, 54
- Africa 174, 217, 224
- Bt toxin 161
- cotton 217, 254
- developing countries 153
- European Union 161, 162–3, 222
- Kenya 217, 225–9

- Mali *see* l'ECID
 NGOs 217
 United Kingdom 65, 222, 241, 243, 251–2
 United States 161
 GM food aid
 Africa 174, 175–6
 Zambia 12, 161–4, 166–7, 176
GM Nation? [UK] 222, 251
 Goetz, Anne Marie 245–6
 Goita, Mamadou 252
 Golde, Dr 198
 Gorman, Theresa 86
 Gorner, Peter 201
 Gottweis, Herbert 8–9, 28, 42
 governance 108–9, 167, 219–21, 240, 265–6
 Africa 220–21
 definitions 2–3, 22, 172, 218, 261, 262
 deliberative 240–41
 developing countries 153–5, 157, 167, 265, 266
 political nature of 266–8
 reflexive 12, 51, 52, 56, 66, 68, 72–3, 146
 styles of 240
 tools 4–5, 10
 transnational 173–5, 176–9, 180–85, 186, 187
 typology 5
 government
 definitions xiii, xiv, 262
 joined-up 11–12, 21, 22, 42–3, 45
 Graham, David 7
 GRAIN 221
 Graz, Jean-Christophe 179
 Green Revolution 156, 158–9, 160
 Greenaway, John 4
Greenberg v. Miami Children's Hospital
 196–9, 201, 203, 204, 205, 206, 207, 208, 210
 Greenpeace 162, 221, 241
 group membership theory 208
 Gulf War, Second 134
- Habermas, Jürgen 36
 Hagendijk, Rob 2, 5, 240
 Hapgood, John (Archbishop of York) 87
- Harmon, Shawn H.E. ix, 12, 263, 264, 270, 271
 Harrar, J. George 158
 Harris, John 81
 Harsh, Matthew ix, 13, 45, 155, 263, 265, 267
 Hart, Herbert L.A. 93
 Hawaii, University 200, 202, 203, 210
 Health, Department of [UK] 60–61
 Health and Safety at Work Act 1974 [UK] 147
 Health and Safety Executive [UK] 147
 Hedgecoe, Adam 149
 Heller, Michael A. 206
 Hereditary Disease Foundation 194
 heterarchy 11, 22, 23, 24, 25, 32, 45
 definition 163
 Hickey, Samuel 184
 hierarchy 10, 22, 26
 High Level Panel on Modern Biotechnology 223, 224
 HIV *see* AIDS
 Hobbes, Thomas 45
 Hofstede, Geert H. 182
 Holocaust 30
 Horst, Maja 240, 243
 Horton, Richard 7
 Human Fertilisation and Embryology Act (HFEA 1990) [UK] 12, 79–80, 88, 89, 90–101, 264, 270
 Human Fertilisation and Embryology Authority (HFEA) 90–91, 98–9
 Human Fertilisation and Embryology (Research Purposes) Regulations 2001 [UK] 79–80, 88, 89
 Human Genetics Commission 71
 Human Reproductive Cloning Act 2001 [UK] 92
 Human Tissue Act 2004 101
 Hunt, Adrienne 75
 Huntington's disease 194
 hybrid research 98, 99
- Icelandic Health Sector Database 57, 67
 Illegal Immigration Reform and Immigrant Responsibility Act 1996 [US] 139

- in vitro fertilization (IVF) 21, 30, 34, 35, 38, 80–81, 85
 India, citizens' juries 241, 244–6
 industrial pollution 142
 industry involvement 5–6, 10
 inequality 31, 40, 41–2
 infectious diseases 137, 143, 145
 infertility 80–81
 information technology 107
 Innogen Centre *see* ESRC Innogen Centre
 innovation
 breakthrough 118–19
 linear model 156, 159
 STI 107, 108
 Institut d'Economie Rurale (IER) 248, 253, 254
 Institute for Public Policy Research (IPPR) 241
 Institute of Development Studies (IDS) 245
 insurance discrimination 28–9, 35, 36, 37–8
 Interagency Committee on Drugs of Limited Commercial Value [US] 110
 interests 53, 54–6, 264
 biobanks 59
 UK Biobank 63, 68, 269
 Interim Licensing Authority 85
 International Agricultural Research Centres (IARCs) 158, 160
 International Aids Vaccine Initiative 156
 International Council for Life Sciences 136
 International Development, Department for (DFID) [UK] 245
 International Rice Research Institute (IRRI) 157–8, 159, 160, 166
 International Service for the Acquisition of Agri-Biotech Applications (ISAAA) 225, 226–7, 228
 Irwin, Alan 2, 5
 Israel 116
 IVF *see* in vitro fertilization

 Japan 116, 120, 125
 Jessop, Bob 22, 31

 joined-up government 11–12, 21, 22, 42–3, 45
 Jordan, Andrew 3, 262
 journal publication 136, 138, 146
 justice 11–12, 21–49, 95, 166
 cognitive 252–3
 Juvenile Diabetes Research Foundation 200

 Kanellopoulou, Nadia ix–x, 13, 263, 270
 Kant, Immanuel 95
 Kazancigil, Ali 23
 Keeley, James 253–4
 Kelsen, Hans 95
 Kennet, Lord 87
 Kenya 162, 218, 221, 267
 GM crops 217, 225–9
 National Biotechnology Policy 226–7, 231, 232
 NGOs 13, 224–31
 participation 228–30, 232–3
 Kenya Agricultural Research Institute (KARI) 227–8
 Kidney Cancer Association 122
 King's Fund Policy Unit 241
 Krause, Keith 133
 Kymlicka, Will 25, 26–7

 Lauderdale, Earl of 87
 Laurie, Graeme x, 12, 51, 198, 263, 264, 267, 269, 271
 Lesotho 182
 Levidow, Les 222
 Levitt, Mairi 65
 libertarianism 24–5, 35–7
 life sciences, use of terminology 11
 linear model of innovation 156, 159
 Locke, John 35–6
 luck 33–4
 Lyall, Catherine x, 9, 12, 14, 23

McFarlane v. Tayside Health Board 94
 MacKenzie, Donald 146
 McLeish, Caitriona x, 12, 263, 264, 267
 McNair Wilson, Sir Michael 87
 Malawi 161, 162, 163, 176, 182–3
 Mali's Farmer's Jury *see* l'ECID
 market pull 107, 111, 115, 116

- Marketing Research Standards Board (MRSB) 243
- Martin, Paul 149
- Marx, Karl *see* Marxism
- Marxism 27, 40–42, 46
- Mason, John Kenyon 198
- Matalon, Reuben 197
- Médecins Sans Frontières (MSF) 165
- media 107
- mediation 54
- Medical Research Council (MRC) 61, 85, 99
- Meeting of Minds, European Citizens Deliberation on Brain Science 241
- melsaroprol 164
- Merck 7
- Merrell Dow Pharmaceuticals 164–5
- Merz, Jon 201, 205
- Miami Children's Hospital *see* Greenberg
- Mill, John Stuart 25–6, 93, 95
- Millennium Development Goals (MDGs) 154, 173
- Milne, Christopher-Paul x, 12, 98, 263, 264, 268–9, 271
- Mittra, James 29
- Modernising Government* agenda 52
- Mohan, Giles 184
- Monsanto 217, 225, 248, 253
- Moore, Adam D. 35–6
- Moore v. Regents of the University of California* 198, 210
- Moran, Mary 118, 119
- mouse-pox 138, 144
- Mozambique 161, 162, 163, 176, 182–3
- Mugwagwa, Julius T. 263, 265, 270
- Mulkay, Michael 97
- multi-national companies 108
- multilateralism 136
- Mwanawasa, Levy 162
- Nagel, Thomas 27, 44, 45
- Nairobi Declaration 223
- Nanojury 241, 242
- nanotechnology 241
- NAPE 196
- National Agricultural Research Systems (NARS) 158, 159–60
- National Biocontainment Laboratories [USA] 137
- National Biosafety Committee (NBC) [Kenya] 226, 227, 230–1
- National Cancer Society [US] 123
- National Institute of Allergy and Infectious Diseases (NIAID) [US] 137
- National Organization for Rare Disorders (NORD) [US] 110, 120–21, 129
- National Security Decision Directive 189 [US] 139–40
- National Tay-Sachs and Allied Diseases Association (NTSAD) [US] 197
- Natsios, Andrew 162
- natural primary goods (NPG) 33, 39–40
- Nazis 30
- needs principle 40–41, 42, 46
- networks, policy *see* policy networks
- new molecular entities (NMEs) 118–19, 123
- New Partnership for Africa's Development (NEPAD) 176, 177, 223, 225
- New Zealand 116, 241
- Newman, Janet 4
- NGOs *see* non-governmental organizations
- Nielsen, Paul 162–3
- Nightingale, Paul xi, 12, 263, 264, 267
- Noiville, Christine 211
- Nolke, Andreas 179
- non-governmental organizations (NGOs) 44–5, 155, 187, 217–37, 265
- Africa 217–21, 222, 224
- definition 219
- Europe 222–3
- GM crops 217
- Kenya 13, 224–31
- public-private partnership involvement 217, 221
- security role 134
- North, definition 218
- Nozick, Robert 24–5, 35, 36
- nuclear power consultation [UK] 243
- Nuffield Council on Bioethics 99
- Nussbaum, Martha Craven 44

- Odame, Hannington 227
 O'Neill, Onora 43–4, 65
 Open Forum on Agricultural
 Biotechnology 225
 Opinion Leader Research 241, 243
 Organization for Economic Cooperation
 and Development (OECD) 186
 Organization of African Unity (OAU)
 177
 Orphan Drug Act 1983 [US] 110–11, 120,
 122–3
 orphan products 12, 109, 113, 114–16,
 118–20, 122–9, 268–9
 definition 111
 other-regard 55, 68
- Paarlberg, Robert 153
 Papaioannou, Theo xi, 11–12, 14, 263,
 267, 269
 parthenogenesis 91
 participation 9, 43, 68–9, 70, 272 *see also*
 citizens' juries
 Kenya 228–30, 232–3
 pathogens 143, 145, 146
 patient advocacy groups 13, 110, 121,
 122, 193–215, 269
 achievements 195
 developing countries 210
 professionalism 194–5
 Patriot Act 2001 [US] 136
 pentamidine 164
 Pentland, Brian T. 149
 personhood 80, 84, 87, 91
 Peters, B. Guy 22, 42, 263, 264, 266
 Pierre, Jon 22, 42, 263, 264, 266
 Pimbert, Michel 245
Pioneer Hi-Bred v. Holden Foundation
 198
 Polanyi, Karl 157
 Policy, Ethics and Life Sciences Research
 Institute (PEALS), Newcastle
 University 241
 policy-making 1–17, 174, 272
 policy networks 4, 10, 109, 126, 128,
 262, 266 *see also* public-private
 partnerships
 polio virus cDNA 138, 144
 pollution, industrial 142
- poverty 43
 Powell, Enoch 86
 Power, Michael 149
 Prajateerpu 241, 244–6, 253
 pre-embryos 87
 pre-implantation genetic diagnosis
 (PGD) 21, 30, 34, 35, 38
 precautionary principle 161
 President's Emergency Plan for AIDS
 Relief (PEPFAR) 122
 Pretty, Jules 244
 procreative autonomy 81
 procreative beneficence 34, 38
 Program for Biosafety Systems (PBS)
 225
 Proliferation Security Initiative (PSI) 140
 pseudoxanthoma elasticum *see* PXE
 International
 public engagement *see* participation
 Public Health Security and Bioterrorism
 Preparedness and Response Act 2002
 [US] 136–7
 Public Health Service (PHS) Task Force
 [US] 110
 public interest *see* interests
 public participation *see* participation
 public-private partnerships 125
 in developing countries 156
 NGO involvement 217, 221
 pull, market 107, 111, 115, 116
 push, science 107, 111, 115, 116
 PXE International 194, 196, 200–207,
 208, 209, 210
- R (on the application of Quintaville) v*
HFEA 88
 Raguran, Shetty 254
 Rao, Arti 198–9, 210, 211
 rare diseases 110
 rationality 70
 Rawlinson, Lord 87
 Rawls, John 23–4, 32, 33, 34, 35
 Rayner, Steve 222
 R&D 108, 109, 110, 126, 127
 Reason, Peter 245
 reflexive governance *see under* governance
 regional collaboration *see* transnational
 governance

- regulation xiv, 2, 261
 medicines [US] 107–32
 reproductive medicine, 79–104 *see also in vitro* fertilization
 Rhodes, R.A.W. 24, 263–4, 271
 rice 12, 157–60
 Richards, Paul 244
 risk 133, 141–4, 145, 146–7, 148–9, 182, 183, 224
 Robertson, Lord 87
 Ropars, Anne-Laure 118, 119
 Rosenberg, Justin 133, 140, 141
 Royal College of Obstetricians and Gynaecologists (RCOG) 85
- Sagasti, Francisco 244–5
 Salamon, Lester M. 9
 Savulescu, Julian 34, 38
 Scanlon, Thomas 24, 33
 science, disunity of 145, 148
 science, technology and innovation (STI) 107, 108
 science push 107, 111, 115, 116
 Scoones, Ian 253–4
 security, outsourcing 134
 self-organization 31
 self-ownership 35–6
 self-regulation 107, 108
 significant biologics (SBs) 118–19, 123
 Sikasso Regional Assembly 246, 248, 252
 Singapore 116, 125
 Singh, Jasber 242
 sleeping sickness 164
 small and medium sized business enterprises (SMEs) 108, 126
 smallpox *see* variola virus
 Smith, Graham 242, 244
 Smith, James xi, 12–13, 14, 240, 256, 263, 265, 268
 social justice *see* justice
 social movements 251
 social primary goods (SPG) 33, 34, 39–40
 social theory 141
 somatic cell nuclear transfer (SCNT) 91
 South, definition 218
 South Africa 162, 182, 183, 217
 South Korea 116
- Southern African Development Community (SADC) 174, 175, 176, 177, 185
 SPGs 33, 34, 39–40
 Spinardi, Graham 146
 stakeholders 1, 2, 8, 51, 57, 120–22
 definition 56
 state, role of *see* government
 state sovereignty 141
 steering not rowing 6, 111, 264
 stem cells 5, 8
 innovation 126
 research 88, 89, 90, 98, 99
 Stevens, Candice 185
 Stirling, Andrew 146
 Stoker, Gerry 43, 264
 students, vetting schemes 139, 146
 suramin 164
 surrogacy 85
 Surrogacy Arrangements (Amendment) Bill 86
 Swaziland 182
 Sweden 57
 Syndicat des Producteurs de Coton de Vivriers (SYCOV) 249, 251
 Syndicat pour la Valorisation des Cultures Cotonnières et Vivrières (SYVAC) 250
 Syngenta 248, 253, 254
- Tait, Joyce xi–xii, 8, 12, 23, 54–5, 263, 264, 268–9, 271
 Talking Energy 243
 Taylor, Harry 240
 technological change 9–10, 107, 264
 Temple, Rober, 117
 terrorism 134, 136, 140
 Terry, Patrick 203
 Terry, Sharon 195, 202, 203, 204
 test-tube babies *see in vitro* fertilization
 top down 9, 24, 36, 108, 109–10, 268–9
 Touré, Boubacar 247
 tragedy of the anticommons 206
 tragedy of the commons 206
 transnational governance 173–5, 176–9, 180–85, 186, 187
 Traoré, Alimata 251
 Traoré, Moussa 249

- treatment INDs (investigational new drugs) 121
- Tripoli Declaration 223
- trust
 - reproductive technology 85
 - UK Biobank 64–6, 67
- trypanosomiasis* 164
- Tufts Center for the Study of Drug Development (Tufts CSDD) 114, 117, 118, 119
- Tvedt, Terje 232
- Uganda 155, 165
- UK Biobank 12, 57–8, 59–73, 74, 269
 - Ethics and Governance Council 51, 60, 61, 62, 64, 66, 69, 70, 71–2
 - Ethics and Governance Framework (EGF) 60, 61–2, 63, 66, 68, 69, 70
 - funders 61
 - interests 63, 68, 269
 - Interim Advisory Group 61
 - public engagement 70, 71
 - purpose 60
 - trust 64–7
 - values 57–8, 63, 66, 67–8, 269
- Uman Genomics 57
- Unborn Children (Protection) Bill 1985 86
- United Kingdom 5
 - biosecurity 12, 133–52, 264, 267
 - GM crops 222, 241, 243, 251–2
 - pharmaceutical industry 9
- United Nations 136
 - Millennium Development Goals (MDGs) 154, 173
 - Security Council Resolution 1540, 2004 140
 - UN Millennium Report* 166
- United Nations Educational, Scientific and Cultural Organisation (UNESCO) 44
- United Nations Environment Programme (UNEP) 225, 226, 231
- United States 5
 - Agency for International Development (USAID) 162, 225, 248, 253, 254–5
 - citizens' juries 241
 - drug regulation *see* Food and Drug ... GM crops 161
 - Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism (USA Patriot) Act 2001 136
 - utilitarianism 25–6, 37–8
 - values 53, 54–6, 70, 73–4, 264
 - agricultural innovation 222
 - biobanks 57–9
 - HFEA 93–5, 99
 - UK Biobank 57–8, 63, 66, 67–8
- Van der Velden, Maja 252–3
- Vaniqa 165
- variola virus 138, 144
- Veneman, Ann 162
- Vioxx 6–8, 264
- Visvanathan, Shiv 252, 263
- Voluntary Licensing Authority (VLA) 85
- Wakeford, Tom 242, 245
- Wales, Corinne 242, 244
- Walton, Lord 88
- Walzer, Michael 38, 39
- Wambugu, Florence 224, 227, 232
- Warnock, Mary 82, 99
- Warnock Committee 82–5, 86, 90, 91, 95
- Wassenaar Agreement 136
- Water Efficient Maize for Africa 217
- weapons
 - biological *see* biological weapons of mass destruction (WMD) 140
- Weber, Max 70
- Weldon, Dave 138
- welfare state 26
- Wellcome Trust (WT) 61
- what works 23, 52, 53, 113, 128
- Whittall, Hugh 99
- Williams, Michael C. 133, 140
- Winterton, Ann 89
- World Bank 154
- World Health Organization (WHO) 164, 165
- York, Archbishop of (John Hapgood) 87

Zambia

biosafety 182–3

GM food aid 12, 161–4, 166–7, 176

Zerbe, Noah 162

Zimbabwe 161, 162, 176, 183

Farmers' Jury 241

Zoellnick, Robert 162–3