Index

AAALAC International 70, 72, 73
Adams, Richard 34
The Plague Dogs 34
American Anti-Vivisection Society 27
American Humane Association 27, 29
American Medical Association 27–8
anaesthesia 8, 12, 23, 35, 92–6
discovery 12
ether 12, 35
analgesia 92–6
animal experimentation 1–7, 35–8, 59–7, 74–97
advances in human and non-human welfare 3–4, 13–14
alternatives 5, 74–97
replacement 5, 26, 78–84, 98
audiovisual aids 80–2
computer simulation 80–2
videotape presentations 82
virtual reality 81
in vitro techniques 79–80
limulus amoebocyte lysate (LAL) test 80
mathematical modelling 80–2
QSAR modelling 80
human studies 82–4
reduction 5, 26, 84–9, 98
refinement 5, 26, 89–97, 98
experimental design 84–9
role of statisticians 88
dissection 3, 8–11, 62
see also vivisection
history 8–14
medical breakthroughs 13
opposition 3–6, 15–34
regulation 3, 21–3, 64–73
animal ethics committees (AEC) 6, 64, 67–73, 75, 88
animal houses 89–92
enrichment 89–92
animal husbandry 89–92
animal ‘interests’
see Singer, Peter
Animal Liberation
see Singer, Peter
animal ‘rights’
see Regan, Tom
animal use 58–63
as models of human disease 58–61
in allied health professions 62
in behavioural research 61
in biomedical research 11–14, 58–9
in education and training 62
in fundamental and applied biological research 58–61
in genetic research 60–1
in product testing 63
in vaccine production 62
in veterinary studies 62
in wildlife research 46
see also safety testing
Animal Welfare Information Center (USA) 75
Animal Welfare Institute (USA) 29–30
anthropocentrism 10–11, 22
see also Christian attitudes; Descartes, René; ethics, humanism; Kant, Immanuel
anti-vivisection(-ists) 15–34, 35
British Union for the Abolition of Vivisection 24
International Anti-Vivisection Society 25
National Anti-Vivisection Society 24
Victoria Street Society 23–4
ANZCCART 75, 100, 102–3
ANZCCART News 75
Ethical guidelines 102–3
Aquinas, St Thomas 9, 18
Summa theologicae 9–10
ASPCA 27
Index

attitudes to animal experimentation, public 1–6, 8–11, 14
Australian Government Senate Select Committee on Animal Welfare 55
Bacon, Francis 10, 58
De Augmentis Scientiarum 10
Battye, James 47
Bell, Charles 20
Bentham, Jeremy 18–19, 33, 43
An Introduction to the Principles and Morals of Legislation 18
‘Can they suffer?’ 18–19, 43
Bergh, Henry 27
Bernard, Claude 12, 99
Introduction a l'étude de la médecine expérimentale 12
Birch, Charles 47
Boyle, Robert 16
‘pneumatick engine’ 16
British Institute of Medical Ethics 35, 92
Bronowski, Jacob 8
Browning, Robert 23
Burch, Rex
see Russell, William
Callicot, J. Baird 48–9
Canadian Council on Animal Care (CCAC) 75
chimpanzees 41, 42, 45–6
Christian attitudes 9–10
Clergy 9–10, 23–4
Archbishop of Westminster, Cardinal Manning 23, 24
Bishops of Oxford and Carlisle 23
see also ethics, humanism
Clark, Stephen 38, 94
Animals and Their Moral Standing 38
The Moral Status of Animals 38
Cobbe, Frances Power 23–4
codes of practice
Australia 68
New Zealand 68
Colombo, Realdo 9
consciousness 40–2, 47
cruelty 8–10, 15, 23–4, 35, 42
Darwin, Charles 22, 53
On the Origin of Species by Natural Selection 22
The Descent of Man, and Selection in Relation to Sex 22
The Formation of Vegetable Mould, through the Action of Worms 53
Denton, Derek 41
Descartes, René 10–11, 17, 40–1
beast-machine 11, 17, 41
Cartesian thought 10, 18, 40
‘Cogito ergo sum’ 11
Discours de la Méthode 10
diabetes mellitus 13
Disraeli, Benjamin 23
Draize test 63, 80, 96
Druyan, Ann
see Sagan, Carl
empathy 18, 37, 49–50
endangered species 45–6
Erisistratus 8
ethics 35–57
animal experimentation 39, 47–8, 54–6
animal interests 37, 43–6, 98
animal rights 18, 37, 40–3, 44–9
humanism 9–11, 17–19, 40–3
land ethic 39
reverence for life 38–9, 50–2, 98
Fisher, John 49–50
Francis of Assisi 10
Franklin, Adrian 2
Fund for the Replacement of Animals in Medical Experiments (FRAME) 75
Alternatives to Laboratory Animals 75
Galen of Pergamum 8–9
De Anatomicus Administrationibus (on Anatomical Procedures) 9
Gallup, Gordon 41
genetically modified and cloned animals 6, 60–1
Gruen, Lori 49
Hales, Reverend Stephen 17
Hall, Marshall 20–1
Harvey, William 11
hepatitis B 45–6
Herophilus 8
Hooke, Robert 16
INDEX

Hume, Major Charles W. 26
see also Universities Federation for Animal Welfare

Humphrey, Nicholas 40–1

International Animal Care and Use Committees (IACUC) (USA) 31, 70–1, 88

International Primate Protection League 46

Johnson, Samuel 17
The Idler 17

Kant, Immanuel 38–9, 42–3
see also ethics, humanism

legislation 2–3, 21–4, 43, 53
Animals (Scientific Procedures) Act (1986) (UK) 33, 65–7, 76
Animal Welfare Act (NZ) 68
Cruelty to Animals Act (1876) (UK) 15, 21–2, 23–4
Health Research Extension Act (USA) 70
Leopold, Aldo 39–40
A Sand County Almanac 39–40
land ethic 39–40
lethal dose₅₀ test (LD₅₀) 63, 96
London Medical Gazette 20
Lord Chief Justice Coleridge 23
Lower, Richard 16

Maganie, François 11–12, 20
moral status of animals 1, 9–11, 32–4, 35–57
personhood 42
moral stewardship 38, 54–6

Nash, Roderick 39–40
The Rights of Nature 39

National Academy of Sciences (USA) 27–8
National Health and Medical Research Council (NHMRC) (Australia) 68
National Institutes of Health (USA) 32, 70–2
National Science Foundation (USA) 72
National Society for Medical Research (USA) 29
New Zealand Animal Ethics Advisory Committee 68
NORINA database 77

octopuses 53, 65
pain 8–9, 92–7
Paton, William 74, 98
Pavlov, Ivan 28
pharmacology 62, 80
physiology 11–13, 20–1, 58, 62–3, 78
poliomyelitis 3–4, 14, 59
epidemic in 1952 59
Pompe’s disease 59
Pope, Alexander 17
Porter, David 54
Primatt, Humphry 19

psychology 61–2
Public Health Service (USA) 71, 73
Regan, Tom 37, 44–9, 74
animal ‘rights’ 37, 44–9
inherent value 44–9
The Case for Animal Rights 48
Rollin, Bernard 34, 74
Animal Rights and Human Morality 34
Rothschild, Miriam 1, 99
Rowan, Andrew 35
RSPCA 21, 24
Martins Act (1822) (UK) 21
Russell, William, and Burch, Rex 26, 75–6, 98
The Principles of Humane Experimental Technique 26, 75–6
Ryder, Richard 34, 45, 74
Victims of Science 34

safety testing 63, 99
acute toxicity tests 63
biological screening tests 63
carcinogenicity tests 63
developmental and reproductive toxicity tests 63
eye and skin irritation tests 63
mutagenicity tests 63
neurotoxicity tests 63
production of useful biological and therapeutic materials 62
repeated-dose chronic toxicity tests 63
Sagan, Carl 42
Schweitzer, Albert 38–9, 50–4, 98
Civilization and Ethics 51
Schweitzer, Albert (cont.)  reverence for life 38–9, 50–2, 98
will-to-live 50–4
scientific method 20–1, 84–9
self-recognition studies 41
Selye, Hans 90
sentient animals 1, 6, 43–4, 54
Shakespeare, William 42
Cymbeline 42
Shaw, George Bernard 24
Silver Springs monkeys 31
Singer, Peter 33–4, 36–47, 54, 74, 98
animal ‘interests’ 37, 43–6, 98
Animal Liberation 33–4, 36, 40
equality of consideration 33
‘speciesism’ 44
Stevens, Christine 29
stress 90–2
anxiety and emotional arousal 90–2
environmental 92
surveys of public attitudes 2
kangaroo culling 2

tennynson, Lord Alfred 23
thalidomide 83–4
teratogenicity testing 78, 83–4
Thorndike, Edward 28
‘three Rs’ 5, 26, 75–97, 98
see also animal experimentation, alternatives

tuberculosis 13–14

United States Department of Agriculture (USDA) 30, 70–1

Universities Federation for Animal Welfare (UFAW) 26, 75
Handbook on the Care and Management of Laboratory Animals 26

University College, London, demonstrations 25
utilitarianism 17–19, 35, 43–4, 47
preference 43, 46
see also Bentham, Jeremy; Singer, Peter

Vesalius 9
Veterinary Record 95
Victorian Britain 12–14
British Association for the Advancement of Science 21–2
Cruelty to Animals Act (1876)
see legislation
life expectancy 14
Queen Victoria 21
Royal Commission of Inquiry 21–4
Second Royal Commission of Inquiry 25
vivisection 6, 8–12, 35
origins 8–11
Voltaire 15

Wade, Nicholas 45
Watson, John 29
Women’s Christian Temperance Union (USA) 27