

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)

Index

- abortifacients 274–6, 278, 314
 - prostaglandin 299–301
 - RU 486 299–300
 - steroidal 301
- abortion 211, 276, 309, 364
 - and HIV 332–3
 - backstreet 10, 278
 - in maternal autoimmune conditions 142
 - luteal-phase deficiency (LPD) and 344
 - mechanism for the selection of the fittest 10
 - menstrual regulation 301
 - reform 359, 378–9, 383
 - spontaneous 10, 12, 130, 134, 162, 211, 309, 353, 362, 373
- acetaldehyde 367–8
 - teratogenicity 369
 - see* ethanol
- acrosin 85, 132
- acrosome 35, 132
 - acrosomal reaction 36, 132–3
 - formation 85–6
 - immunocontraception 295
- acquired immune deficiency syndrome, *see* AIDS
- ACTH (adrenocorticotrophic hormone) 232
 - effects of ginseng on 317
 - in placenta 157–8
 - phase of resistance 237–9
- activin, in placenta 157
- adhesions, pelvic 309
 - see also* pelvic inflammatory disease
- adolescent/adolescence 42–3, 210
 - and substance abuse 335–6
 - eating disorders (boys) 348
 - eating disorders (girls) 342
 - hypothalamic–pituitary–gonadal axis 45–6
 - promiscuity 118
 - sexuality and HIV transmission 50–1, 335–6
 - see also* puberty; ovary; testis
- adoption 12, 379
- adrenal gland
 - activity at puberty (adrenarche) 45–6
 - activity during labour 171–4
 - differentiation and function in fetus 157, 166, 171
 - effects of ginseng on 317
 - hyperstimulation (GAS) 229, 230–4, 237–9, 318
- adrenaline, *see* catecholamines
- adrenarche 45, 46, 50
 - see also* puberty; adrenal gland
- adrenergic neurons
 - function in exercise 347
 - function in food restriction 340
- adultery 118, 120
- ageing 205–6, 236, 259
 - men 208–10
 - rat 206–8
 - women 210–11
 - see also* menopause; reproductive decline in males
- aggression 97, 99, 234–5
 - dominance hierarchies 228, 230–5, 244–6

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)390 *Index*aggression (*cont.*)

GAS and 229–30, 234

in adolescence 44, 51

in sociobiological context 115,
239–40, 244

male pheromone and 111

AIDS (the acquired immune

deficiency syndrome) 320–3,
327–8

contraception 292–3, 294, 323, 335–6

control 328–30, 333–5

immune suppressing properties of
prostaglandins and 129

in prostitutes 119, 322

perinatal transmission 155, 331–3

see also HIV; virusalcohol, *see* ethanol

alcohol dehydrogenase 367–8

alcoholism

and fetal alcohol syndrome (FAS)
368–9

and impotency 209, 370

altruism 113, 124–5

amenorrhoea 341

and eating disorders 341–4

athletic amenorrhoea 345, 346

opiate abuse and 340

secondary 342

amniocentesis 211

amnion/amniotic 138

androgen-bind protein (ABP) 83

androgens 58–61

and brain sex 38

and fetal virilization 312

anti-androgens 313

sexual receptivity in female 98

sexual receptivity in male 96–7

androstenedione 27, 61

androstenol 111

androsterone 60, 81

4- α -androsterone 2025- α -androsterone 235

Angelman syndrome 144

animal husbandry 135

see also genetic engineering

anorexia nervosa 161, 341, 342–4

anorexia athletica 161, 345, 347

antimycotics 314

antisperm antibodies 10, 14, 80, 89,
130, 205

Apgar scores 190

aphrodisiacs 314

Aristotle 113, 210, 243, 368, 275

aromatase/aromatization 27, 61, 63, 83–4

activity in brain differentiation 38–9

in male hyperoestrogenaemia 83

artificial insemination (AI) 12–13, 267,
377

husband insemination (HI) 12

ascorbic acid, *see* vitamin C

aspirin 128

assisted fertilization and sperm

micromanipulation technology
17, 132–3

assisted reproductive technologies

(ART) 11–19, 132–3, 376–9

informed consent 384

use in conservation of endangered
species 267–72*see also* individual technologiesatherosclerosis, *see* hypertension

atresia, ovarian follicle 56, 212–13

Australia/Australian

biodiversity reduction 251–3

heritage 227

population growth 227

rate of species extinction 251–4

the White Australia policy 279

Australian indigenous people 162, 214,

241, 326

clandestine sterilization 384

Earth's custodians 258

kinship laws and taboos 106

polygynous collectives 122

autocrine cellular communication 26, 58

granulosa

and oocyte 55–6

and theca 33

in early embryogenesis 136

in luteal cells 67

in parturition 167, 172

in testis 74

maternal–placental–fetal 156

see also paracrine

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)*Index 391*

- axoneme 35
- AZT (azidothymidine)
 - and ddC (ribavirin) 329–30
- baboons
 - dominance hierarchy 244–6
 - foraging 162
 - mating strategies 117
- Baer, Karl Ernst von 30
- Barnard, Christiaan 380
- basic metabolic rate, *see* resting metabolic rate
- Baulieu, Etienne-Emile 299
- Beach, Frank 97
- Beauvoir, Simone de 279
- bendectine (Debendox or Leotan) 360–1
- biodiversity 227, 387
- bioethics 379–82, 385–7
 - institutional ethics committees (IECs) 381–2
- birth, *see* labour; parturition
- birth control, *see* contraception;
 - steroidal contraceptives, female
- birth defects 197, 354, 365, 373, 381
 - as a result of infertility treatment 16
 - effects of hyperthermia 350
 - in utero* drug exposure and 195
 - paternally-mediated effects on offspring 209
 - see also* teratology; congenital anomalies
- blastocyst 135, 354
 - blastocoele formation 136
 - compaction 136
 - hatching 136
 - see also* implantation
- blood–testis barrier, *see* Sertoli cell barrier
- bombesin 340
- bonding, infant–family 202–3
- brain
 - development, human 95, 114, 125, 149, 154, 365
 - effects of hormones on behaviour 36–7
 - fetal hypoxia and 191, 363
 - in FAS 368–9
 - intelligence 154, 247
 - mental retardation 354, 365
 - sexual differentiation of 38–9
 - see also* sexual behaviour
- Braxton Hick's contractions 166, 170
- breast, *see* mammary glands; cancer
- Brown, Bob (MP) 254
- Brown, Louise 14
- Bruce effect 103
- Bruce, Hilda 103
- bulimia nervosa 341, 344
- Caesar, Julius 276
- Caesarean section 169, 188, 364
- caffeine 370–4
 - and osteoporosis 218
 - effect on IUGR 196, 197
 - effect on labour 172
 - effect on testis 91–2
 - paternally-mediated effects on offspring 373–4
 - therapy in infant apnoea 196
 - transmission into breast milk 183
 - see also* methylxanthines
- Calhoun, John 228
- cancer
 - adenocarcinoma 287
 - clear cell of the vagina and cervix 309
 - breast 316
 - use of RU 486 therapy 287
 - childhood leukaemia and lymphoma 127, 367
 - cryptorchidism and 310–11
 - DES and 308–10
 - effects of HRT on 219
 - gonadal malignancy in hermaphrodites 29
 - Kaposi's sarcoma 327
 - ovarian 312
 - stress-induced 225–6
 - vagina/cervix 287, 309–10
- cannibalism 228
- Cannon, Walter 231
- capacitation 88, 132–3
- Capronor contraceptive implant 284–5

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)392 *Index*

- carbonic anhydrase 151
- carboxyhaemoglobin 363, 364–6
- cardio-vascular disease, *see*
hypertension
- castration 41, 46, 74
- catecholamines 193, 231–2
 - alarm reaction 237
 - dominance hierarchy 244–5
 - effects on testosterone synthesis 348
 - fetal response to hypoxia 171, 172
 - in ageing 207, 217
 - in fetus 171
 - levels in puberty 49
 - placental vasoconstriction 152, 153
 - release to xenobiotics 362, 364, 368, 372
 - release in food restriction 340
 - role in parturition 165, 171–4
- CD26 HIV cell receptor 323
- CD4 HIV cell receptor 323, 326, 327
 - and prenatal DES exposure 310
 - recombinant molecule 330
- Centchroman (Saheli) contraceptive 302
- cerebral palsy 369
- cervix/cervical 128
 - cap 293
 - crypts 129
 - lesions, papiloma virus and cancer 287, 310
 - mucus 129
 - hostile 10
 - ripening 166–8
- child/children
 - and HIV infection 323, 331–3
 - rights 243, 304, 376, 383–4, 387
 - legal 247, 361
- chimaera (allophenic embryos) 140
- chimpanzees
 - ageing 207
 - mating strategies 117
- Chinese pharmacopoeia, *Chen Nung Pen T'ao* 316
- Chlamydia trachomatis* 11
- cholecystokinin 340
- cholesterol 58–60, 81–2
- chorion/chorionic villi 136–8, 146, 149, 150
 - choriocarcinoma 143
- chorionic gonadotrophin (hCG) 141, 157
 - birth control vaccine 292, 303–4
 - in sexual differentiation 27
- chorionic villus sampling 211
- Christian, John 229–30, 240
- chromosomes
 - aneuploidy 134
 - anomalies 127
 - euploidy 134
 - karyotypes 22–3
 - mosaicism 134
 - polyploidy 134, 143
 - SRY (sex-determining region of the Y chromosome) 23–4
 - X and Y sex differentiation 22–4
 - X-dosage compensation 23
 - Y in skeletal maturation 46
- cigarette smoke/parental smoking 153, 361–3
 - smoking 366–7
 - see also* nicotine
- cimetidine 312–13
- circumcision 10
- cleft palate 181
- climacteric 210, 212
 - positive gains 215
- clitoris 38, 98
- clomiphene citrate (CC) 14
- coitus interruptus 274–5, 276, 292
- colostrum 175
- Comfort, Alex 111
- conditioning 235–6
- condom 276, 278, 292
 - African use 322
 - and HIV 323, 335–6
 - female 294, 336
- congenital adrenal hyperplasia 312
- congenital anomalies 354–5, 360–1, 365
 - and male contraception 290
 - as a result of donor insemination 12
 - critical periods 357–8
 - see also* birth defects

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)*Index* 393

- conservation, flora and fauna 376
 - biological argument 258, 261
 - by education 264
 - by management 262, 266
 - economic argument 255–6
 - human variants 272–3
 - tactics of 266–72
 - wildlife argument 256–8
- contraception/contraceptives 197, 199, 376, 242–3, 278, 378
 - historical perspective 274–81
 - male
 - hyperthermia 289–90
 - inhibin 289
 - libido 288–9
 - cytotoxic drugs 288
 - steroidal 288–9
 - methods
 - barrier 292, 293
 - immunocontraceptives 291, 295
 - implantation prevention 298–303
 - sterilization 297
 - subdermal implants 283
 - transdermal implants 285
 - vaccine 303
 - vaginal systemic 285
 - sociobiological perspective 123
 - postcoital 131
 - see also* steroidal contraceptives, female; individual technologies
- copulation/coitus 106, 128–9
 - in dogs 117
 - in psychosexual development 94–7
 - intra-pair versus extra-pair matings 119–20
 - treatment for unprotected 131
- copulins 105
- corona radiata 130
- corpus albicans 57
- corpus luteum 57, 67
 - of pregnancy 140–1, 156
- cortical granules 133
- corticosteroid-binding globulin (CBG) 39
 - steroid transport 309
- corticosteroids 217
 - ageing/hot flush 206, 217
 - antagonist RU 486 300
 - in ovarian regulation 71
 - placental 157
 - puberty 49
 - delay 102
 - role in IUGR infants 188
 - stress pheromones 110
 - the GAS 229, 232, 238–9, 244, 245
- corticotrophic releasing hormone (CRH) 233
 - in food restriction 341
 - phase of resistance 238–9
 - placental 157–8
- cortisol
 - dominance hierarchy 244–5
 - effects of ginseng on 317
 - effects on testosterone synthesis 348
 - fetal 171
 - in exercise 347
 - levels in puberty 49
 - release in food restriction 341
 - response to hypoxia 171–4
 - role in lactation 178
 - role in parturition 165, 171–4
 - see also* corticosteroids
- cotinine 362, 363
 - see also* nicotine
- coumarin as a contraception 302
- coumestans, *see* phytoestrogens
- courtship 96–7, 114, 118
- Creutzfeldt–Jakob disease (CJD) 16
- cryobiology 267
- cryptorchidism 26
 - effects of DES exposure 310
 - incidence 311
- cumulus oophorus 34, 57, 130–2
- cyclic AMP (cAMP) in meiotic arrest 34
- cysts
 - fibroid 10
 - ovarian 16
- cytokines 54, 156, 170
- cytotrophoblast 136–8
 - growth in androgenic embryos 143
 - immunocontraception 304
 - see also* trophoblast

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)394 *Index*

- Dawkins, Richard 114, 115, 259
- DDT (dichloro-diphenyl-trichloroethane) 313
see also pesticides
- de Graaf 30
- dehydroepiandrosterone (DHEA) 61
- Depo-Provera
 (depomedroxyprogesterone acetate) 283, 312, 384
- DES, *see* diethylstilboestrol
- detergents
 oestrogenic action of 7
- diabetes mellitus 18, 128, 208, 356
 and genomic imprinting 143
 in pregnancy 154, 194
 risk from oral contraceptives 287
- diaphragm 278, 293
- Dice syndrome 307, 313, 360–1
- diet 140
 and lactogenesis 182
 and phytoestrogens 315
 insufficiency 341
 effects on menstrual cycle 71, 338–9
 vegetarian 182, 316
see also dieting
- dieting 161, 342–4, 346–7
- diethylstilboestrol (DES) 280–1, 355
 and CNS functions 309–10
 and sperm quality 13
 as postcoital contraceptive 131, 301
 prenatal exposure 308–11
 structure 308
 transport 309
see also synthetic steroids
- 20 α -dihydroprogesterone 60
- 5 α -dihydrotestosterone (DHT) 60,
 82–3
 and brain sex 38
 and genital development 27
- 1,25-dihydroxycholecalciferol (solatriol)
 52
- direct intraperitoneal insemination
 (DIPI) 13
- disease
 and passive smoking 366
 autoimmune 310, 325
 Clover 316
 of adaptation 225–7, 231, 246
 opportunistic due to HIV 321
 psychiatric effects of DES 310
see also cancer
- dispersal, *see* migration/dispersal
- Djerassi, Carlo 314
- DNA 114
 condensation in spermiogenesis 86
 epigenetic effects 86, 127
 genomic imprinting 142–3, 144
- donor insemination, *see* artificial
 insemination
- dopamine
 effects of exercise 347
 in labour 172
 neurons, relation to GnRH neurons
 340
- Down's syndrome (trisomy 21) 134,
 209, 211, 369
- drugs, *see* xenobiotic agents
- ductus arteriosus/venosus 189–90
- Dumas 35
- Durham, William 124
- dysmenorrhoea 69, 280
- dyspareunia 212, 220
- Edwards, Robert 14
- efferent ducts 76
- Ehrlich formula 227
- Ehrlich, Paul 225, 227, 250
- eicosanoids, *see* prostaglandins
- ejaculation/ejaculatory ducts 96, 128
 development of 26
 onset at puberty 41
 sperm modification at 88
see also semen
- electroejaculation 12, 267
- embryo transfer technology 14, 15,
 140, 267
- embryo/embryonic
 freezing 14
 research 383
 viability and assisted reproductive
 technology 15
- embryogenesis, early 135, 140,
 357–8
see also genomic imprinting

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)*Index* 395

- embryotoxicity 356
 - see also* teratogens; intrauterine growth retardation
- endangered species 250–1, 263
 - ethical considerations 251–3
- endometriosis 10, 17
- endometrium 68–9
 - maternal decidua 138, 140
- β -endorphin
 - appetite modulation 340
 - fetal response to distress 171, 172–4
 - in placenta 157–8
 - in postnatal depression 200
 - Leydig source of 78, 348
 - normal and disturbed menstrual cycles 70–1, 340
 - release in exercise 346–7
 - release in food restriction 340
 - role in parturition 165, 171–4
 - the GAS 229, 232
 - see also* opionergic neurons
- endoscope 11
- epiandrosterone 60
- epidermal growth factor (EGF) 54, 136
- epididymis/epididymal 76
 - cysts 310
 - development of 26
 - immunocontraception 296
 - in sperm maturation 88
 - obstructed 12
- epigenetic effects 353
 - ageing/menopause 213
 - dominance hierarchies 245
 - fetal development 148, 197, 355
 - genomic imprinting 143–4
 - in chromosomal abnormalities 134
 - intellectual development 154
 - on development 21–2, 27, 29
 - society 113
- epilepsy 128
- ethanol 127–8, 367–70
 - effect on IUGR 196, 197, 201
 - osteoporosis 218
 - paternally-mediated effects on offspring 370
 - transmission into breast milk 183
- ethical principles of autonomy, beneficence and justice 385–7
- ethics of reproduction 197–8, 376
- 5 β -etiocholanolone 81
- eumenorrhoea 341
- exercise 242, 344–6
 - and delayed puberty 49
 - and PMS 71
 - delayed osteoporosis 218–19
 - in pregnancy 163, 349–51
 - men and 347–9
 - women and 346–7
- extinctions 227–8, 250–1, 261
 - ethical considerations 251–3
 - use of artificial reproductive technologies 267–72
- facultative polyandry, *see* sexual strategies
- fallopian tube 10
- FAS, *see* fetal alcohol syndrome
- fashion industry 347
- fat (adipose tissue)
 - fetal brown and white 193
 - see also* obesity
- fecundity 3, 6
- female
 - choice of mate 122
- feminine/feminization 51, 201
 - brain sex 39
 - effect of DES 39, 310
 - hypogonadism 82
- fertility 378
 - at puberty 42, 52
 - caloric needs for maintenance of 237–9, 241–4, 341
 - caloric needs for sexual maturation 48–9
 - decline in Europe 305
 - effects of caffeine on 373
 - effects of seasons 52
 - female factor 6
 - see also* infertility and subfertility
- fertilization 128, 131–4
 - pro-nuclei formation 134
 - sperm requirements for 7–9
 - see also in vitro* fertilization

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)396 *Index*

- fetal alcohol syndrome (FAS) 368–9
see also mental retardation
- fetal growth retardation, *see*
 intrauterine growth retardation
- fetus/fetal
 circulation 146–9
 development of hypothalamic–
 pituitary–gonadal axis 27
 energy requirements 151, 154–6
 entrainment of circadian rhythms 186
 growth and maturation 148, 156–9
 hypoxia 152, 171
 rights 226, 304, 360, 383–4
see also reproductive health
 determinants/ethical
 responsibilities
- fibroblast growth factor (FGF) 54
- fight-or-flight response 231, 234
see also general adaptation syndrome
- fighting, *see* warfare/fighting strategies
- fimbriae 130, 131
see also oviduct/oviductal secretions
- flagellum of sperm 35
- follicle-stimulating hormone (FSH)
 analogues 15
 oogenesis 56, 63–5
 secretion in senescence 212–13,
 216–18
 spermatogenesis 78, 83–4
- follicles, ovarian 55–7
 Graafian 57, 66
 growth and atresia in childhood 44
 in ageing 212–13
 primary 33, 56
 primordial 27, 56
see also steroidogenesis
- follicular phase 56–7, 63–5
see also steroidogenesis; follicles
- food restriction
 and exercise 345
 at puberty 49, 339–40
 in human 341
 in rat 339–40
see also pituitary; menstrual cycle
- foramen ovale 189–90
- Fossey, Diane 257
- freemartin females 39
- Friedan, Betty 279
- Frisch, Rose 48
- G or Grafenberg spot, the 37
- Gaia 258–61
- gamete intra-fallopian transfer (GIFT)
 13, 15
- gametogenesis 29–34, 76–8, 81–7, 353
 imprinting effects 143–4, 353
see also oogenesis; spermatogenesis
- gap junctions, *see* autocrine and
 paracrine cellular
 communication
- gastrulation 138
- gender identity 50–1
see also sexuality/sexual strategies
- gender reassignment, *see* transsexualism
- General Adaptation Syndrome (GAS)
 229, 236–9, 259, 261
 and delayed growth/puberty 48,
 49–50
 and immunosuppression 347
 and male infertility 78
 effect of exercise on 346
 effect of food restriction on 341
 effect of ginseng on 317–18
 effect on testosterone levels 91
 fetal effects 153
 in drawfism 49
 individuality of response to 244–7
- genetic diversity 250, 253–4, 257, 262,
 266–7
 as a result of facultative polyandry 120
see also biodiversity
- genetic engineering/gene therapy 15,
 134, 135, 378–83
- eugenics 382, 384
 in conservation 268
 transgenic animals 135, 143
- genital
 differentiation 25–8, 29
 lesions 10, 310
 mutilation 10
see also circumcision; infibulation
- genomic or parental imprinting 142–4,
 353
- DNA methylation 143

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)

Index 397

- germ cells 74, 76–80
 - primordial 24, 26
- germinal epithelium 76, 79
 - development of 26
 - see also* seminiferous tubules
- germinal vesicle 33
- gestation, artificial 383
 - see also* pregnant/pregnancy
- gibbons' mating strategies 117
- ginseng (*Panax ginseng*) 316–18
 - structure 317
 - see also* phytoestrogens
- glucagon
 - function and the alarm reaction 237
 - levels at puberty 49
- glucocorticosteroids, *see* corticosteroids
- GnRH, *see* gonadotrophin-releasing hormone
- goitre, endemic 127
- gonadotrophin-releasing hormone (GnRH) 65–7, 156–7
 - analogue/agonist 15
 - as contraceptives 290–1
 - Bruce and Whitten effects 103
 - effects of exercise in females 345
 - effects of exercise in males 348
 - effects of food restriction 341
 - GnRH pulse generator 65
 - and puberty 41–2, 46
 - senescence 206, 211, 216–18
 - inhibition by stress 229
 - in sexual differentiation 27
 - opionergic control of 340
 - therapy in PMS treatment 70
 - therapy in precocious puberty 47
- gonadotrophins 57, 61–5, 83–4
 - in sexual differentiation 27
 - secretion in senescence 212, 213, 216–18
 - use in immunocontraception 291
- gonarche 45
 - see also* puberty; ovary
- gonorrhoea (*Neisseria gonorrhoea*) 11, 205
- Goodfellow, Peter 23
- gossypol 288, 294
- Graafian follicle, historical 30
 - see also* follicles, ovarian
- Grafenberg, Ernst 302
- granulosa cells 55, 130
 - in sexual differentiation 24, 27, 32–4
- greenhouse effect 257, 260
- growth, human 148–9
 - neuroendocrine control of 48–50
- growth hormone (GH)
 - and transgenic pigs 135
 - levels in puberty 49
 - role in lactogenesis 177–8
- haematopoiesis 135
- haemoglobin 149, 150
 - carbon monoxide affinity 153
 - dissociation curves 150, 350
 - fetal 150
- Haldane, J. B. S. 124
- Hartsoeker, Nicolas 35
- Hawke, Bob (Australian ex-PM) 254
- hemizone assay 9
- herbal medicines 314, 318
- hermaphrodite/hermaphroditism
 - epigenetic modification of normal gene expression 29
- Greek legend 307
- pseudohermaphroditism in genetic deficiency 29
 - see also* feminization and masculinization
- Herophilus of Alexandria 30
- Hertwig, Oscar 35
- Hippocrates 201, 275, 289, 320, 386
- HIV (human immunodeficiency virus) 324–6
 - and donor insemination transmission 13
- chemotherapy 328–30
 - control 326, 328–30
- heterosexual spread 322–3
- perinatal transmission of 155, 331–3
- vaccine 328, 330
 - see also* AIDS
- homeostasis/homeostatic 228–30
 - global (Gaian) 258–61
 - in fetus 193

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)398 *Index*

- homeostasis/homeostatic (*cont.*)
 - in senescence 216
 - nutrient regulation in gestation 146, 149, 159–63
 - nutrient regulation during lactation 178, 181–3
- homunculus 35
- hormone replacement therapy (HRT), *see* sex steroid hormone replacement therapy
- hot flush (flash) 215–18
 - in non-human primates 207
- human chorionic gonadotrophin (hCG) 14
- human immunodeficiency virus, *see* HIV
- human menopausal gonadotrophin (hMG) 14
- human papiloma virus 310
 - see also* disease; cervix/cervical
- hamster 9
- Hunter, John 12
- Huntington's chorea 114
- hyaluronic acid/hyaluronidase 66, 85, 130–2
- hydatidiform mole 143
- 17 α -hydroxylase:C_{17,20}-lyase enzyme complex 61
- 17 α -hydroxypregnenolone 61
- 17 α -hydroxyprogesterone 60–1
- 17 β -hydroxysteroid dehydrogenase 61, 67
- Δ^5 -3 β -hydroxysteroid dehydrogenase 27, 60, 81
- hyperactivity, *see* exercise
- hyperoestrogenism 311, 315
- hypertension; ischaemic heart disease/stroke 188, 194, 225, 231, 356
 - effects of IUGR on 152–3
 - risks from HRT 219
 - risks from steroidal contraceptives 287
- hyperthermia
 - effects on pregnancy 350–1
 - use as male contraceptive 289–90
- hypothalamus/hypothalamic
 - activity in senescence 206–11
 - appetite regulation 49–50
 - control of adrenal secretion 232, 237–9
 - control of gonadotrophin 65
 - control of gonadotrophin secretion 68
 - in fetus 27
 - integration of olfactory cues 101
- hypoxia, fetal 152–3, 191, 196, 363, 369
 - see also* intrauterine growth retardation; sudden infant death syndrome
- hysterosalpingography 11
- iatrogenic disease 307, 313
 - following ovarian hyperstimulation 16
 - in premature infant 194, 198
 - see also* Dice syndrome
- idiopathic 9
- infertility and assisted reproductive technology 12, 14, 15
- immunity to sperm
 - infertility and assisted reproductive technology 13
- immunity/immune system 155
 - autoimmune disease 296, 297–8, 325
 - in ageing 208, 213
 - in HIV infection 324
 - in stress 229, 236
 - male or female antisperm antibodies 10, 14, 80
 - pregnancy vaccine 303–4
 - sperm vaccine 291, 298
 - teratological effects of vaccines 304
 - see also* immunosuppression
- immunocontraception 272, 291–2, 295–7
 - health concerns 297
 - pregnancy vaccine 303
 - teratological effects 304
 - with sperm antigens 295–7, 304
- immunoglobulin G (IgG) 89
 - in breast milk 155, 179
 - colostrum 175

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)

Index 399

- in pregnancy 155
- Rhesus prophylaxis 142
- immunosuppression
 - and properties of seminal plasma 90
 - effects of HIV on 321, 324, 328
 - in spermatogenesis 80, 88–9
 - of fetal allograft 140–2
 - stress induced 347
 - see also* antisperm antibodies
- implantation 131, 135, 136–8, 140–1
 - decidualization 138
- impotency 208–9
 - and opiate abuse 340
- in vitro* fertilization (IVF) 13, 15–17, 131, 377
- incest 37, 106
 - genetic incest as a result of donor insemination 13
 - kinship laws and taboos 106–7
- infant
 - soy meal formula 315
 - stillborn 152, 211
 - see also* low birthweight infant
- infanticide 274
 - in langur monkeys 123
- infertility and subfertility 6–7, 85, 90–2, 133, 309–10, 376, 377
 - and ageing 205–6, 211
 - consequent to unregulated fertility 5–7
 - energetic considerations 48–9, 241–4
 - exercise amenorrhoea 344–6
 - exercise in males 348–9
 - female factor 10–11
 - idiopathic 5–6, 11
 - in stress 229
 - infertility treatment and birth defects 16
 - lactational amenorrhoea 178–9
 - low prostaglandin semen level 121
 - luteal phase deficiency and 344
 - male factor 6–10, 78
 - occupational exposure 6–7
 - pesticide exposure 313–14
 - sexually transmitted disease (STD) 90
 - xenobiotic exposure 90, 372
 - see also* assisted reproductive technologies; reproductive decline in males; menopause
- inhibin 54, 79
 - contraceptive 289
 - in female 65, 67
 - in male 79, 84
 - in placenta 157
 - senescence 213
- inner cell mass 136
- insecticides, *see* pesticides
- insulin 154, 193
 - and food restriction 341
 - requirements for pubertal growth 49–50
 - role in lactogenesis 178
- insulin-like growth factor (IGF) 54, 136
- intensive care 187, 197–8
- interstitial tissue
 - ovary 56
 - testis 81
- intrauterine device (IUD) 302–3
 - and HIV infection 322
 - Dalkon shield 303
- intrauterine growth retardation (IUGR) 21, 152–3, 157, 355
 - hypoxia 152, 153
 - population stress 229
 - strenuous exercise and 349–50
 - xenobiotic exposure and 195–6, 363–4, 368, 373
 - see also* low birthweight infant
- intrauterine insemination (IUI) 13
- ischaemia
 - in testis 91–2
 - see also* hypertension
- isoflavones, *see* phytoestrogens
- $\Delta^{5,4}$ -isomerase 60
- IUD, *see* intrauterine device
- IUGR, *see* intrauterine growth retardation
- Jost, Alfred 22
- Joy of Sex, The 111

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)400 *Index*

- Kartagener's syndrome 133
 Keller, Helen 110
 Kibbutzim, Israeli 107
 Kinsey Report 38, 279
 Kistler, Ruth Alice 210
 Klinefelter syndrome (XXY karyotype) 22
 Krebs, C. J. 230, 241
 !Kung bushwomen 345
- labour 158, 166–74
 active management of 171
 and drug use in 188
 delayed 309
 postpartum haemorrhage 309
 preterm 158, 166, 167, 309
 see also parturition
- lactate dehydrogenase isoenzyme (LDH-C₄), testis 296
- lactation/lactogenesis 146, 158–9, 174–80, 181–3
 milk-ejection reflex 179
 impaired 180–1, 311
 drug transmission 355, 371
 effects of steroidal contraception on 287
 HIV transmission 332
 IgG 155
 see also milk
- langur monkeys, mating strategies 117, 123
- laparoscopy 11
 use in oocyte collection 15
- Leeuwenhoek, Anton von 35
- Lemoine, P. 368
- Levine, Seymour 245
- Leydig cells 74, 81, 209–10
 activity and sexual differentiation 24, 26–8
 see also testosterone
- Leydig, Franz 75
- libido/sexual drive 51, 96, 127
 adolescent 51
 boys 44
 girls 46, 97–8
 and use of steroidal contraceptives 287, 288–9
- effects of alcohol 370
 effect of testosterone HRT 219–20
 environmental modifiers 90–2, 341
 seasonal variation in 51–2
 see also sexual arousal
- Liggins, G. C. 165
- light, effects on reproduction 51, 52
- limbic system 101
- Living wills 384–5
- lordosis 97
- Lovell-Badge, Robin 23
- Lovelock, James 258–9
- low birthweight infant 126, 163, 193–5, 380
 and long-term health concerns 152–3
 benefits of physical stimulation 245–6
 drug exposure 363, 366, 368, 373
 preterm delivery and 166
 suckling problems of 181
 see also intrauterine growth retardation
- low density lipoprotein (LDL) 58
- luteal phase 67–8, 340, 341
 energy requirements in 241–2
- luteal phase deficiency (LPD) 10, 344
- luteinizing hormone (LH) 61, 65
 in competitive sport 349
 role in Bruce and Whitten effect 103
 secretion in senescence 212–13, 216, 218
 spermatogenesis 83–4
 surge 65–6
 see also steroidogenesis
- lymphocyte T-cells
 and autoimmune disease 296, 297
 T-helper cells and HIV 324
- macaque, *see* rhesus macaque
- McClintock, Martha 108
- major histocompatibility complex (MHC) 104–5
- malformations 354
 see also congenital anomalies; birth defects
- mammary glands 174
 atrophy at menopause 216
 cancer 287, 316

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)*Index 401*

- development at puberty 44, 52
- development during gestation 158, 175
- fibrosis 216
- source of pheromones 105
- see also* lactation
- masculine/masculinization 51
 - and brain sex 38–9
 - and DES 39
 - in homosexual and heterosexual males 37
- synthetic steroids (DES) effects on 310, 312, 318
- see also* sexual behaviour; brain
- Masters and Johnson survey 38
- mate choice/recognition 97, 98–9, 106–8
 - female 122
- mating plugs 117
- Mead, Margaret 214
- meiosis/meiotic 25, 30, 32, 66
 - anomalies 32, 84–5
 - egg maturation and 34, 128, 133
 - in testis 84
- melatonin 52
- menarche 41, 42–3
 - body weight requirement 49–50
 - seasonal effects 52
 - see also* menstruation; puberty
- menopause/menopausal 205, 210–11, 215–16
 - and artificially maintained pregnancy 15
 - and premature 213
 - evolutionary advantages of 214–15
- GnRH pulse generator at 47
 - in primates 208
 - sociobiological perspective of 123
- menstrual cycle 54–7, 128, 301
 - and vegetarian diet 338
 - bleeding 68–9
 - disorders 342–7
 - effects of nutrition on 338–41
 - menopausal transition 213
 - odour threshold 110
 - onset at puberty 41
 - regulation (pre-emptive abortion) 299, 301
 - steroidal contraceptive use 287
 - synchrony 108
 - see also* menarche
- menstruation 301
 - historical attitudes 71
 - regulation (preemptive abortion) 298–9, 301–2
 - see also* menstrual cycle
- mental retardation
 - and FAS 368–9
 - and xenobiotic abuse 354, 365
 - effects of nutritional deficiency on 127, 154
 - imprinted genes for 144
 - see also* brain
- mesonephros 24
- mesovarium 56
- metabolism, *see* resting metabolic rate
- methylxanthines 371–3
 - and sperm motility 133
 - therapy in infant apnoea 196
 - transmission in breast milk 183
 - see also* caffeine
- mifepristone, *see* RU 486
- migration/dispersal 230, 241
- milk, breast 177–9
 - nutritional value 181–3
 - see also* lactation
- miscarriage, *see* abortion
- Mittelschmerz 108, 122
- morphine and IUGR 197
- morula 136
- Müllerian duct 25, 26, 27
 - vestigial G spot 37
- Müllerian inhibiting hormone (MIH) 25, 26, 27
- mumps effects on fertility 9–10, 205
- musk 111
- mutagenesis 353
 - see also* teratology
- myxoma virus-recombinant vector 272
- natural selection 114–17, 127, 129, 132, 354
 - energetics of fertility and 241–4

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)402 *Index*

- natural selection (*cont.*)
 - for altruistic genes 124
 - in armed conflict 124, 125, 239–40
 - see also* selfish genes
- neomorph 383
- neonate/neonatal 152, 185–7, 201–3
 - ethical considerations 197–8
 - gastrointestinal and renal systems 192
 - narcotic withdrawal/apnoea 195–7, 353, 373
 - nipple-seeking and sucking
 - behaviour 171, 178–9
 - respiratory and circulatory systems 187–91
 - solatriol levels in 52
 - stress 245–6
 - temperature regulation 192–3
- nepotism 113, 124
- neural tube defect 359
 - effect of superovulation on 16, 350
 - spina bifida 350, 380–1
- neurotensin 340
- newborn, *see* neonate
- nicotine 127, 361–7
 - and oocyte ageing 205
 - and osteoporosis 218
 - and steroidal contraception 287
 - cause of sperm lesions 90
 - effects on placenta and fetus 153, 195–6, 197, 362
 - paternally-mediated effects on offspring 366–7
 - transmission in breast milk 183
- noradrenaline in placental circulation 350
- norethindrone 280, 284
 - see also* synthetic steroids; steroidal contraceptives, female
- norethynodrel 280
 - see also* synthetic steroids; steroidal contraceptives, female
- Norplant contraceptive implant 283–4
 - see also* steroidal contraceptives, female
- nutrition/nutritional 126, 162
 - and osteoporosis 218–19
 - effects of malnutrition 127, 205, 341
 - haemotrophic 138
 - histiotrophic 138
 - in PMS sufferers 71
 - lactational requirements 181–3
 - postnatal depression 201
 - requirements at puberty 48–9
 - requirements during stress 236
 - requirements in pregnancy 127, 152, 158–62
- obesity 338
 - and male hyperoestrogenaemia 82
- obstructive azoospermia 9
 - effects of assisted reproductive technology on 12, 16
- oestradiol-17 β 60–1
 - and brain sex 38
 - in female phenotypic development 27
 - testicular synthesis of 82–4
- oestrial
 - as plant products 314
 - structure 62
- oestrogens 58–60, 97–8
 - and cervical mucus consistency 129
 - and HRT 219, 220
 - anti-oestrogens 309
 - effect of ethanol on 218
 - effects on olfactory threshold 110
 - ovum or zygote transport 131
 - phytoestrogens 314–16
 - postcoital contraception 131
 - role in lactogenesis 175, 177–8
 - role in parturition 165, 168, 172–4, 199
 - see also* synthetic steroids; diethylstilboestrol
- oestrone 60–1
 - as plant products 314
- olfaction/olfactory system 101, 105
 - menstrual fluctuation in sensitivity 110
 - role in sexual development 109
 - see also* pheromones
- oligomenorrhoea 341
 - exercise oligomenorrhoea 346
- oocyte 57
 - ageing 66, 212–13

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)*Index 403*

- atresia 33
- growth/maturation 30, 135
- primary 32–3
- retrieval 14
- oogenesis 29–34
 - genomic imprinting 142–4
- oogonia 32
- oophoritis 11
- opionergic neurons
 - activity in exercise 347
 - activity in food restriction 340
 - hot flush 215–18
- oral contraceptives, *see* steroidal
 - contraceptives, female;
 - contraception, male
- organogenesis 139
- orgasm
 - and sperm competition 121
 - female 38, 51, 90, 107, 129
- Ortner, Sherry 279
- osteoporosis 182, 212, 218–19
- Ota, Tenrei 302
- ovarian hyperstimulation syndrome 16
- ovary/ovarian 54–7
 - cysts 16, 309
 - differentiation 23–5
 - effects of exercise 344–6
 - effects of food restriction 339
 - hyperstimulation 14–15, 16
 - luteoma and arrhenoblastoma 312
 - maturation at puberty 44
 - see also* sexual differentiation;
 - steroidogenesis
- oviduct/oviductal secretions 128, 130–1
 - development of 26
 - obstruction/occluded 10, 13, 309
 - see also* fimbriae
- ovulation 65–8, 128, 130, 212
 - an-(oligo-) 10, 309, 341
 - athletic amenorrhoea 346
 - cryptic (concealed) 107, 121
 - energy requirements for 241–4
 - induced 99, 103
 - seasonal suppression of 345
- ovum
 - activation 133–4
 - ageing 130, 211
 - pick-up 130, 131
 - transport 131
- oxytocin 54, 232
 - endometrial 69
 - ovarian 67
 - role in milk-ejection reflex 179
 - impaired 180
 - role in parturition and puerperium 165, 169–71, 172–4, 198
- Pacific South Sea islanders 42
- paedophilia 37
- pair-bonding 95
 - infant–parent 99, 102, 105
- pampiniform plexus 87
- paracrine cellular communication 26, 58
 - during labour 167, 172
 - granulosa–theca 33
 - in early embryogenesis 136
 - in testis 74, 78
 - luteal–luteal 67
 - maternal–placental–fetal 156
 - oocyte–follicle cells 33, 55–6
 - see also* autocrine
- paraplegia 12
- paraxanthine 371
- parental care 126, 146
 - sexual receptivity and 51
 - see also* parenting
- parenting 113–14, 377, 379
 - multiple 116
 - perspective from sociobiology 122–3
 - step-parent 123
- parthenogenesis 142–3
- parturition 146, 165–74
 - blood loss at 149
 - endocrine requirement for 158
 - fetal timing of 156
 - premature/preterm 187, 190, 195, 309
 - see also* labour
- paternally-mediated drug effects on
 - offspring 92, 127, 197, 367, 370, 373–4
- paternity 43
- Paterson, D. C. 360

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)404 *Index*

- pelvic inflammatory disease (PID) 10, 199, 303
- permaculture 271
- pesticides 253
 - biopesticides 314
 - effect on fertility 6
 - organochlorine pesticides 313–14
- phagocytosis, of sperm 130
- phenylketonuria (PKU) 191
- pheromone 99–102, 109–11, 113, 120
 - effect on mother–infant bonding 202–3
 - human 105–11
 - levels at puberty 44
 - priming 100, 108–9
 - rodent 102–5
 - signalling 100, 105–8
- phytoestrogens 162, 314–16, 339
 - structure 315
 - see also* ginseng
- Pincus, Gregory 280, 314
- pituitary
 - and exercise 344–6
 - cadaveric hormone extract and Creutzfeldt–Jakob disease 16
 - function in food restriction 339–41
- placenta/placental 27, 146–8, 156–9
 - abruptio and praevia 364
 - diffusion/gaseous gradients in 148–9, 154–6
 - formation of haemochorial 136–8, 148
 - insufficiency/vasoconstriction 153, 356, 362, 363, 364, 369
 - vasoconstriction 364
- placental lactogen (PL) 158–9
 - effect on colostrum synthesis 175
 - role in lactogenesis 177
- plasminogen activators
 - in ovulation 66–7
 - in spermatogenesis 74, 87
- platelet activating factor 140
- Plato 113, 275
- Plutarch 276
- polar body 66, 128, 133
- pollution 225, 255, 261–2
- polychlorinated biphenyls (PCBs) 313–14
- polyspermy 134
 - block to 132, 133
 - hydatidiform mole 143
 - see also* chromosomes
- population/population growth 225–8, 243–4, 260, 261, 376, 378
 - and contraception 304
 - and stress 230–4
 - and the GAS 236, 239–40
 - ‘density stat’ and reproductive health 228–30
- postnatal depression 200–2
- pouch of Douglas 13
- Prader–Willi syndrome 144
- pre-eclampsia 142
 - see also* hypertension
- preconceptual care 126–8
- pregnant/pregnancy 354
 - and in senescence 211
 - ectopic 10, 303, 309
 - effects of exercise 163, 349–51
 - effects of food restriction 49
 - maternal recognition and maintenance of 141
 - MHC incompatibility in 106
 - nausea and vomiting in 162
 - nutritional adaptation and requirements of 127, 158–63
 - parental responsibilities of 126
 - prematurity 363–4, 373
 - prevention by postcoital treatment 131, 303–4
 - xenobiotic exposure 360
- pregnenediols 60
- pregnenolone 27, 60–1, 81
- premenstrual syndrome (PMS) 69–70, 201
- preservation of endangered species and ART 15
- Prevost 35
- progesterone 60–1, 67
 - and basal metabolic rate 340
 - and cervical mucus constituency 129
 - in ovum or zygote transport 131

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)*Index* 405

- odour characteristics 110
- role in parturition 165, 168–9, 172–4
- progestogens, *see* synthetic steroids; steroidal contraceptives, females
- prolactin 67, 229
 - effects on testosterone synthesis 348
 - role in Bruce and Whitten effects 103
 - role in lactogenesis 177, 178, 179
- promiscuous, *see* sexual behaviour
- Proopiomelanocortin (POMC) 223–34, 238–9
- prostaglandin E₂ and F_{2α} 129, 140
 - and sperm transport 90, 121
 - as an abortifacient 299–301
 - effect on luteolysis 67
 - in menstruation 69
 - in placenta 156
 - in semen 129
 - role in parturition 165, 168–71, 172, 174
- prostate 82
- prostitution 37, 95, 115, 119
 - and HIV infection 322
 - surrogacy as 377
- pseudohermaphroditism, *see* hermaphrodite
- puberty/pubertal 41–6
 - and phytoestrogens 315
 - delayed 48, 229
 - in boys 348
 - in girls 342
 - effects of light on 52
 - genetic deficiency 29
 - neuroendocrine control of 46–50, 102
 - precocious 41, 47–8
- Puerperium 198–9
 - and exercise 349
 - puerperal fever 199
- Quinlan, Karen Ann 380, 384
- rape 37, 116, 125
 - and rate of conceptions 118
 - homosexual 116
- recombinant DNA technology 267, 268, 271–2
- 5α-reductase 27, 29
 - deficiency 29
- relaxin 54
 - corpus luteum source 67
 - role in parturition 165, 168–9, 172–4
- reproductive decline in males 205, 208–10
- reproductive health
 - determinants/ethical responsibilities 3–5, 197–8, 209, 247
 - and population density 228–30
- reproductive technologies, *see* assisted reproductive technologies
- residual body 87
- respiratory distress syndrome (RDS) 188
- resting metabolic rate (RMR)
 - and dieting 49–50
 - and exercise 345–6
 - and pregnancy maintenance 146, 160–1
 - fertility maintenance 242–3
- rete testis 24, 76
- rhesus macaque 38
 - ageing 207
 - density stress 229
 - mating strategies 117
 - social communication 98, 105
- rhesus or RH red cell antigen 115, 142
- rhythm/rhythmical 186
 - circadian and circannual entrainment 51–2
- RNA synthesis, in oocyte maturation 33
- Rose, Robert 234
- RU 486 abortifacient (mifepristone) 299–300, 486
- rubella (German measles) virus 155, 197, 334
- salpingitis 11
- Sanger, Margaret 278, 377
- Sapolsky, Robert 244, 245
- saponin glycosides, *see* ginseng
- scrotum, as thermal regulator 87

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)406 *Index*

- seasonal effects on reproduction 98
 - fertility 52, 90
 - puberty 51–2
- sebaceous gland
 - activity in boys 44
 - activity in girls 46
- selfish gene 114, 122–3, 378
 - see also* sperm competition
- Selye, Hans 231–3
- semen/seminal plasma 7, 78, 88, 89–90, 129
 - computer-assisted analysis of 7
 - pheromones in 101
- seminal vesicle 26
- seminiferous epithelium, *see* germinal epithelium
- seminiferous tubules 76, 78, 79
 - development of 24, 25
 - see also* spermatogenesis
- Sertoli cell barrier 74, 78–80
- Sertoli cells 74, 78–80, 210
 - in sexual differentiation 24, 26
 - Sertoli cell–testis barrier 26
- Sertoli, Enrico 78
- sex education 242
- sex hormone-binding globulin, *see* steroid hormone-binding globulin
- sex reversal 84–5
- sex steroid hormone replacement therapy (HRT) 219–20
- sex-preselection 267
- sexism 113, 115
- sexologists
 - Alice Lada, Beverly Whipple and John Perry 38
- sexual arousal 129, 211
 - see also* libido
- sexual behaviour 94–5, 98–9
 - and HIV spread 333–6
 - and impaired masculine 82, 313
 - cultural expectations 50–1
 - decline due to ageing 208, 209, 211
 - differentiation of 36–9
 - epigenetic influences and gender identity 36
 - female 97–8
 - in adolescence 50
 - male 96–7
 - promiscuous 43
 - territorial/aggression 228, 234–5
 - see also* brain; pheromone
- sexual differentiation 22–8, 157
 - and anti-androgens 313
 - and DES 308–11
 - effects of PCBs 7
 - rate of development 25
 - stress and 236
- sexuality/sexual strategies
 - bisexual 37
 - facultative polyandry 119–20
 - heterosexual 37, 109
 - and HIV infection 323, 325–6, 332
 - homosexual 37
 - and HIV infection 323, 326
 - identity 50–1, 214
 - monogamy 117, 119, 121
 - polygamy 117
 - polygyny 122
 - promiscuous 115, 117, 118
 - serial monogamy 117
 - see also* brain
- sexually transmitted disease (STD)
 - 320, 321, 323
 - and antisperm antibodies 10
 - effects on fertility 9–10, 11, 90
 - infection facilitated by
 - prostaglandins 129
 - see also* AIDS; specific diseases
- Siamese twins 140
 - see also* twins
- SIDS, *see* sudden infant death syndrome
- skin glands 100
 - apocrine 101
 - sebaceous 101, 110
 - see also* pheromone
- smoking, *see* nicotine
- sociobiology/sociobiological 95, 113–17
 - advantage of aggression 239–40
 - and the menopause 214
- socioendocrinology 113
- solatriol 51–2
 - see also* vitamin D

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)

Index 407

- son's effect 120
- Soranus (gynaecologist of antiquity) 275
- Spallanzani, Lazzara 35
- sperm competition 107, 116–17
 - in humans 117–22
- sperm microinjection 17, 267, 133
- sperm penetration assay (or zona-free hamster oocyte test) 9
- sperm/spermatozoa 8, 30, 209
 - antigenic properties and autoimmunity 9, 129–30
 - asthenozoospermia 9
 - azoospermia 9
 - capacitation 132
 - effects of DES 310
 - fitness and viability 129, 131
 - historical 35
 - HIV receptor on 326
 - longevity 116, 117, 130
 - maturation 88
 - micromanipulation 17, 133
 - oligospermia 9, 13, 370
 - parameters 7, 78
 - morphology 7, 30, 35
 - motility 7, 9
 - selection by 'swim up' 12
 - spermatogenic cycle 76–8
 - teratozoospermia 7, 9, 366, 370
 - transport 129
 - see also* antisperm antibodies; polyspermy
- spermatids 76–8, 84–7
- spermatocytes 35, 76–8, 84–5
- spermatogenesis 29, 76–8, 81–7
 - cytotoxic agents 92
 - effects of endurance training 348–9
 - genomic imprinting 142–4
 - interruption by contraceptives 288–90
 - temperature effects on 87–8, 289–90
- spermatogenic cycle 76, 78
 - see also* Sertoli cell barrier
- spermatogonia 76–8, 84
- spermicide 274, 288–90, 293, 294, 302–3
 - and HIV transmission 322
- spermiogenesis 85–6
 - interruption by contraceptives 288–90
 - see also* spermatogenesis
- spina bifida, *see* neural tube defect
- SRY*, *see* chromosomes
- Stephoe, Patrick 14
- sterility/sterilization 5, 6, 275, 292, 297
 - forced 384
 - see also* menopause; reproductive decline in males; tubal ligation; vasectomy
- steroid hormone-binding globulin (SHBG) 81–3, 309
 - and breast cancer 316
 - dietary effects 339
 - in DES transport 39
 - in senescence 209
 - synthesis and phytoestrogens 315
- steroidal contraceptives, female 280
 - drug effects on metabolism 371
 - formulations
 - bi-triphasic 281
 - combined 280–2
 - health concerns 286–8
 - intravaginal 285–6
 - libido 97, 287
 - preconceptual care 128
 - progestogen injectables 283
 - progestogen-only 178, 282
 - subdermal implants 283–5
 - transdermal 285
 - see also* contraception, male; synthetic steroids
- steroidogenesis 58–65
 - in spermatogenesis 81–2
 - modifiers of 90
 - two-cell type:two-gonadotrophin control of 65
- steroids 58, 81–2
 - and ginseng 317
 - conjugation and excretion 61
 - in pheromone production 100–2, 110
 - see also* individual compounds; synthetic steroids
- Stopes, Marie 278, 377

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)408 *Index*

- stress
 - and hot flush frequency 217
 - effect on milk ejection 180–1
 - fetal response to 171
 - induced disease 225–7, 231
 - monitoring of personal levels 246–7
 - see also* general adaptation syndrome
- subfertility, *see* infertility
- subzonal sperm insertion 17
- sudden infant death syndrome (SIDS)
 - 193, 195–6, 373
 - effect on maternal reproductive potential 344
- superovulation 267
- surfactant 187–9, 196
- synthetic 188
- surrogacy 17–19, 187, 276, 376–7, 379
 - in species conservation 267
- sustainable development, ecological
 - 243–4, 247, 255–6, 266
- Suzuki, David 251
- sympathetic nervous system 231–2
 - alarm reaction 237–9
 - function in food restriction 340
- syncytiotrophoblast 136–8
 - immunocontraception 304
 - growth in androgenic embryos 143
 - see also* trophoblast
- syngamy, *see* fertilization
- synthetic steroids
 - androgens 312
 - as contraceptives 131, 283
 - fetal exposure 312
 - oestrogens 280, 309
 - postcoital contraception 131
 - progestogens 58–60, 280, 311
 - see also* RU 486, steroids
- syphilis 320
- Tay–Sachs disease 107
- T-cells, *see* lymphocyte T-cells
- teratogens/teratogenesis 195, 354–9, 374
 - effects of immunocontraceptives 304
 - ethical and legal considerations 359–61
 - hyperthermia in pregnancy and 350
 - hyperthermia and spermatogenesis 87
 - rubella 155
- teratology 353, 354
 - ethical considerations 379
 - litigation 360
 - see also* teratogens/teratogenesis
- testicular differentiation 24–8, 157
 - see also* sexual differentiation
- testis/testicular 74–6
 - activity at puberty 43–4
 - and ageing 209–10
 - and exercise 347–9
 - exposure to cytotoxic agents 92
 - lesions 310
 - sperm production and mating strategies 116–17
 - vasoconstriction/drug induced atrophy 362, 370, 374
- testosterone 60, 81–3, 91
 - and male fertility 78, 209
 - as contraceptive 289
 - dominance hierarchy 96–7, 99
 - effects of stress 91, 244–6
 - and endurance training 348–9
 - in brain sex 38–9
 - HRT in menopause 220
 - in phenotypic development 27
 - ovarian senescence 212
 - therapy 96, 97
- thalidomide 355
- theca cells 56, 57
 - externa 66
 - in sexual differentiation 24, 33–4
 - interna 64
- theobromine 371
- theophylline 371
- thyroid hormones (T_4 and T_3)
 - activity in food restriction 341
 - and exercise 346
 - role in lactogenesis 177
- thyroxine (T_4), *see* thyroid hormones
- tourism, ecologically based 254, 264–6, 268
- toxic shock syndrome 294
- toxicology, developmental 353–4

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)

Index 409

- transgenic animals, *see* genetic engineering
- transsexualism 37
- Trifolium subterraneum* 316
- triiodothyronine (T₃), *see* thyroid hormones
- Trivers, Robert 122
- trophoblast or trophoctoderm 136–8
 - growth in androgenic embryos 143
 - immunocontraception 304
 - see also* cytotrophoblast and syncytiotrophoblast
- Trounson, Alan 14
- tubal ligation 293, 297
- tubal occlusion/blockage, *see* oviduct/oviductal secretions
- tunica albuginea
 - ovary 56
 - testis 76
- Turner syndrome (XO karyotype) 22–3
- twins/twinning 139–40, 358
 - conjoined 139–40
 - dizygotic 139, 213, 356
 - half-siblings 121
 - masculinization of female 39
 - monozygotic 139
- Tyndale-Biscoe, Hugh 272
- ultrasound-guided techniques
 - colour Doppler 152, 364
 - in oocyte collection 15
- uterus/uterine 128, 131
 - contractions during labour 165, 166–8
 - differentiation of 26
 - distortion 309
 - fibroids 216, 219, 358
 - uterotubal junction 128, 130
 - vasoconstriction 362, 364
- vagina/vaginal
 - atrophy 212
 - contraceptive ring 285
 - development of 26
 - diaphragm 293
 - fatty acids and copulins 100, 104, 105
 - gossypol 294
 - lubrication 98
 - pill 285
 - sponge, tampons, pessaries, plugs, suppositories 274–6, 277, 293, 294
- varicocele 9
- vas deferens 26, 76
 - obstructed 12
- vasectomy 292, 297
- virus/viral
 - antiviral drugs 328–30
 - herpes 324, 325
 - influenza 324
 - measles 325
 - retroviruses 324–5, 328
 - rubella 155, 197, 334
 - virogene 324
 - see also* AIDS; HIV
- vitamins 155
 - B₁₂ and sperm quality 9
 - B₁₂ in lactogenesis 182
 - C and sperm quality 9, 127
 - D 52
 - placental transfer 156
- vitelline membrane
 - block to polyspermy 134
 - sperm fusion with 132–4
- viviparity 39
- vomeronasal organ 101
- Ward, Ingeborg 236
- warfare/fighting strategies 226
 - and HIV spread 322
 - cause of ecological poverty 255
 - GAS induced 229, 233, 242–4
 - rape in 118, 125
 - sociobiological perspective 239–40
- Warnock Committee 377
- Whitten effect 103, 109
- Wilson, Edward 113
- Wolffian duct 25, 26, 27, 29
 - and G spot 37
- Women's Liberation Movement/
 - feminist thinking 377–8
 - abortion reform 278
 - and contraception education 305
- Wood, Carl 14

Cambridge University Press

978-0-521-42925-2 - A Guide to Reproduction: Social Issues and Human Concerns

Irina Pollard

Index

[More information](#)*410 Index*

- xenobiotic agents 307, 356
 - and osteoporosis 218
 - and postnatal depression 201
 - effects on ageing 205
 - effects on gamete maturation 134
 - effects on labour 172
 - exposure and fetal hypoxia 152
 - in breast milk 183
 - marketing 359–61
 - metabolism 371
 - placental transmission 151, 153
- zearelenone, *see* phytoestrogens
- zona micromanipulation: to effect fertilization 17, 133
- zona pellucida 33, 130–1
 - block to polyspermy 33
 - immunocontraceptives 291, 295
 - penetration 129, 132
 - specific sperm receptors and zona reaction 132–3
- zygote 128, 131, 135
- zygote intrafallopian transfer (ZIFT) 16