

Index

- access to females 23, 31, 55, 60, 69, 72, 120, 130, 146, 154, 173, 183, 222, 264
- adaptation 4, 22, 41, 47, 55, 189, 203, 219, 271
- adult sex ratio 5, 27, 55, 58, 108, 111, 116, 146, 179, 206, 208, 238, 274
- affiliation 4, 85, 102, 106, 210, 212, 234, 253
- age-graded group 4, 120, 126, 130, 136, 142, 169, 178, 187, 222, 274
- aggression 31, 35, 58, 95, 103, 110, 126, 131, 138, 144, 166, 175, 183, 195, 207, 215, 220, 226, 234, 272
- all-male band 6, 108, 120, 131, 169, 238, 247, 271
- Allenopithecus* 84, 91, 96
- alliance 7, 19, 57, 78, 97, 102, 107, 132, 142, 178, 189, 206, 219, 230, 234, 244, 248, 252, 274
- Alouatta* 5, 19, 41, 56, 72, 80, 120, 131, 142, 188, 197, 219, 226, 233
- alpha male 12, 19, 27, 29, 72, 78, 153, 156, 195
- alternative strategies 42, 169, 172
- altruism 11, 189, 248
- Aotus* 64, 232,
- arboreal 4, 22, 42, 94, 106, 155, 160, 256
- asynchrony 15, 187
- Ateles* 73, 82, 188, 248, 255, 265
- baboon, *see Papio*
- bachelor 170
- behavioral ecology 106, 119, 159
- between-group conflict 59, 62, 73, 120, 129, 131, 137, 143, 170, 198
- bimaturism 190
- birth seasonality 93, 120, 127, 187, 265
- body size 47, 56, 64, 72, 82, 171, 174, 214, 232
- bonding 6, 14, 32, 42, 71, 102, 165, 188, 206, 219, 248, 258
- Brachyteles* 72, 77, 188
- breeding season 5, 37, 84, 88, 184, 198, 228, 265
- breeding seasonality 37, 93, 200, 265
- breeding system 11, 19, 159, 178, 226
- Cacajao* 233
- Callimico* 64, 71
- Callithrix* 66, 69, 166, 227
- canine size 55
- Carnivora 37, 47, 100, 249, 255
- Cebuella* 65, 70
- Cebus* 72, 78, 233
- Cercopithecus* 34, 43, 84, 91, 100, 146, 155
- chimpanzee, *see Pan*
- Chiropotes* 233
- coalition 5, 11, 17, 28, 31, 33, 97, 103, 108, 110, 117, 120, 129, 143, 161, 175, 183, 189, 206, 216, 220, 223, 227, 244, 251, 273
- collective action 130, 192, 201, 205
- Colobus* 5, 42, 108, 131, 143, 188, 256
- comparative methods 192, 198
- consortship 26, 28, 34
- contest competition 46, 61, 102, 140, 184, 195, 199, 206, 215, 248, 255
- cooperation 61, 72, 131, 158, 188, 190, 195, 219, 221, 276
- cooperative breeding 11, 178, 226, 232
- copulation 7, 13, 18, 26, 28, 32, 45, 69, 77, 85, 108, 118, 136, 155, 160, 164, 173, 178, 183, 202, 214, 216, 222, 227, 231, 275
- cycling females 149, 156, 241, 265
- daily path length 70, 232
- delayed implantation 37, 46
- demography 55, 61, 72, 78, 86, 99, 113, 120, 164, 170, 220, 226, 236, 265, 273
- dimorphism 55, 64, 100, 102, 104, 106, 132, 185, 190, 206, 215, 230, 250, 261, 273
- dispersal 11, 17, 29, 41, 43, 45, 63, 72, 78, 80, 108, 111, 132, 146, 148, 152, 154, 159, 165, 169, 174, 179, 185, 189, 199, 219, 222, 226, 229, 236, 244
- display 15, 94, 108, 208
- DNA fingerprinting 7, 13, 35, 156, 164, 221, 276
- dominance 3, 6, 12, 26, 28, 30, 40, 55, 61, 69, 85, 97, 102, 106, 132, 146, 148, 152, 156, 169, 175, 178, 183, 194, 197, 205, 207, 214, 220, 227, 234, 244, 248, 254, 272, 274
- duet 159, 163, 169
- ecology 4, 21, 46, 63, 100, 102, 121, 159, 170, 185, 205, 256, 272, 276
- economics 193, 246
- egalitarian relationship 77, 82, 178, 184, 186, 206, 214
- emigration 112, 118, 146, 149, 155, 174, 220, 226, 244
- Erythrocebus* 34, 43, 84, 91, 93, 95, 100, 155, 199
- escalation 206, 215
- estrous synchrony 60, 272, 274
- estrus 23, 25, 29, 32, 36, 42, 44, 68, 87, 93, 186, 190, 205, 208, 222, 259, 262, 267, 276
- Eulemur* 57, 59, 60
- eutherian mammals 21, 39
- evolution 4, 11, 16, 32, 35, 41, 48, 55, 71, 97, 99, 106, 119, 167, 191, 219, 231, 258, 272
- extra-troop males 146, 148, 155, 157
- female alliances 97, 104, 248
- female choice 6, 16, 58, 60, 78, 169, 187, 190, 275
- female dispersal 41, 108, 132, 154, 169, 220, 224, 233, 246
- female interests 59, 60
- female strategies 71, 77, 97, 107, 187, 202, 274
- female transfer 58, 97, 103, 170, 176, 178
- female–female competition 33, 62, 103, 106, 161, 164
- fertility 15, 86, 167, 170, 187, 271, 275
- fission–fusion groups 62, 98, 100, 103, 109, 117, 137, 206, 233, 246, 248, 255, 262
- fitness 11, 16, 19, 120, 128, 171, 176, 183, 187, 196, 205, 223, 244, 249, 276
- follower male 43, 100, 106, 143, 170, 175, 274
- food competition 131, 134, 144, 161, 166
- food distribution 169, 240
- game theory 14, 16, 192, 203
- gelada, *see Theropithecus*
- gibbon, *see Hylobates*
- Gorilla* 41, 56, 106, 120, 131, 143, 169, 187, 197, 263
- gregariousness 170, 248, 250, 254, 275
- grooming 23, 26, 57, 62, 97, 102, 106, 134, 139, 163, 177, 195, 210, 248
- group cohesion 3, 60, 99, 103
- group composition 4, 7, 27, 56, 58, 63, 84, 120, 148, 226, 233, 239, 243, 265, 271, 277
- group formation 221, 229, 233
- group membership 59, 130, 137, 155, 169, 185, 214, 222, 224, 229, 273
- group size 5, 22, 27, 45, 56, 60, 66, 73, 78, 91, 100, 101, 103, 110, 116, 124, 134, 144, 171, 186, 197, 220, 228, 232, 236, 246, 262
- group transfer 6, 58, 108, 275
- growth 22, 24, 47, 67, 257, 261, 272
- habitat quality 104, 111, 117, 124
- Hapalemur* 59
- harassment 16, 29, 34, 45, 57, 60, 102, 123, 132, 141, 144, 178, 202, 275

- harem 3, 23, 30, 44, 56, 98, 143, 183, 206, 265
- helper 11, 16, 48, 65, 70, 178, 223, 226, 230
- hierarchy 26, 28, 30, 69, 85, 103, 108, 234
- home range 23, 27, 95, 109, 111, 120, 123, 132, 137, 147, 165, 170, 198, 223, 228, 233, 260, 263
- howler monkey, *see* *Alouatta*
- human 3, 108, 110, 116, 123, 165, 192, 193, 195, 258
- Hylobates* 64, 159, 161, 233, 261, 276
- immigration 40, 59, 71, 74, 77, 118, 120, 143, 149, 151, 155, 170, 195, 220, 223, 227, 233, 245
- inbreeding 19, 77, 146, 155, 165, 184, 245, 258
- inclusive fitness 6, 131, 143, 183, 187, 189, 196, 219, 223, 231
- independent contrasts 37, 64, 198, 265
- individual difference 118, 245
- infant care 4, 38, 42, 45, 65, 69, 230, 254
- infant carrying 16, 39, 64, 67
- infant sex ratio 73, 77, 78, 80, 82
- infanticide 5, 6, 19, 32, 34, 59, 60, 102, 107, 128, 131, 143, 162, 166, 172, 176, 187, 190, 193, 202, 205, 222, 231, 247, 256, 262, 272, 275
- intergroup encounters 41, 95, 109, 196
- intrasexual competition 55, 205, 219, 220, 226, 229, 233
- intraspecific variability 185
- juvenile 21, 24, 35, 57, 91, 108, 110, 112, 131, 134, 147, 164, 170, 175, 208, 223, 233, 250
- kinship 19, 106, 131, 188, 195, 198
- lactation 36, 41, 47, 87, 205
- Lagothrix* 72, 74, 77, 82
- langur, *see* *Presbytis*
- Lemur* 39, 57, 59, 146, 155, 273
- Leontopithecus* 69, 219, 226
- life history 4, 21, 35, 37, 40, 42, 72, 81, 130, 170, 178, 219, 234, 271
- litter mass 65, 67
- long-term study 6, 40, 63, 95, 117, 160, 220, 232
- longevity 187
- loud calls 91, 127, 137, 143, 196, 200, 264
- Macaca* 34, 41, 43, 99, 146, 155, 169, 183, 197, 200, 205, 215, 275
- Macropus* 22, 25
- male alliances/coalitions 5, 17, 33, 108, 110, 117, 132, 142, 178, 189, 223, 227, 234, 248, 252, 255, 273
- male influx 43, 85, 146, 151, 156, 242
- male philopatry 6, 72, 73, 82, 169, 185, 188, 219, 233, 258, 273, 276
- male quality 118, 246, 276
- male service 60, 273
- male tenure 61, 82, 135, 142, 148, 151, 155, 178, 247
- male transfer 58, 136
- male–female association 34, 40, 41, 43, 47, 160, 170, 271
- male–female relationship 45, 60, 106, 177, 188, 273
- male–male competition 6, 28, 55, 58, 61, 74, 106, 118, 154, 157, 167, 191, 205, 246, 275
- male–male relationship 144, 188
- Mandrillus* 43, 99, 106
- marsupial 21
- mate defense 198
- mate guarding 13, 15, 64, 69, 169, 227, 274
- mating share 12, 19
- mating strategy 23, 27, 71, 120, 189, 259, 264
- mating success 29, 31, 61, 78, 108, 146, 156, 179, 216, 223, 243, 247
- mating system 6, 11, 14, 19, 22, 27, 30, 33, 64, 69, 77, 100, 106, 169, 205, 219, 226, 229, 231, 234, 260, 273
- Miopithecus* 84, 90, 96, 106
- model 14, 16, 55, 71, 83, 97, 100, 104, 163, 171, 186, 192, 200, 202, 234, 236, 240, 245, 259, 263, 274
- monogamy 12, 16, 70, 159, 219, 232, 262, 267
- monopolization 5, 12, 60, 64, 70, 121, 125, 156, 183, 189, 197, 206, 227, 272, 275
- mortality 6, 29, 41, 55, 57, 63, 74, 78, 81, 110, 113, 115, 117, 136, 167, 170, 176, 179, 221, 224, 229, 240, 244, 262, 272
- mounting 26, 28, 210, 275
- multi-male group 4, 11, 19, 34, 40, 44, 58, 72, 85, 90, 97, 99, 106, 120, 127, 130, 175, 183, 227, 237, 246, 247, 273
- multiple mating 11, 16
- mutualism 195, 198, 276
- natal dispersal 42, 148, 155, 157, 159, 165, 228
- neighboring group 4, 17, 35, 62, 77, 84, 95, 132, 143, 148, 156, 161, 164, 178, 223, 233
- non-resident males 84, 87, 89, 156
- number of females 5, 23, 56, 60, 65, 77, 86, 90, 93, 97, 101, 104, 115, 118, 123, 127, 146, 151, 157, 170, 183, 186, 228, 240, 245, 253, 259, 261, 265
- number of males 3, 6, 16, 34, 45, 55, 59, 65, 70, 72, 78, 83, 88, 97, 101, 112, 120, 124, 148, 155, 169, 176, 186, 192, 197, 200, 205, 228, 236, 240, 265, 271
- one-male group 3, 84, 99, 103, 106, 120, 125, 127, 130, 142, 147, 156, 172, 176, 183, 186, 196, 264, 273, 276
- operational sex ratio 55, 62, 174, 185, 259
- opportunity costs 16, 244
- orang-utan, *see* *Pongo*
- pair-bond 14, 30, 46, 60, 165, 166
- Pan* 33, 97, 108, 110, 114, 117, 169, 188, 248, 255
- Papio* 43, 85, 96, 97, 107, 120, 131, 143, 146, 157, 169, 174, 178, 185, 188, 196, 205, 206, 238, 256, 265
- parental care 15, 164
- party size 116, 248, 250, 253
- patas monkey, *see* *Erythrocebus*
- paternal care 16, 32, 56, 59, 61, 64, 69, 177, 231, 246
- paternity 11, 13, 14, 16, 35, 40, 45, 60, 62, 68, 71, 100, 164, 173, 176, 190, 222, 227, 231, 246, 271, 275
- patrilineal society 74, 108
- payoff 16, 169, 171, 194, 262
- philopatry 6, 72, 73, 82, 97, 165, 169, 185, 188, 219, 233, 273, 276
- phylogenetic analyses 7, 99
- phylogenetic inertia 4, 38, 219, 234
- phylogeny 37, 96, 110, 118, 198, 200, 265
- Pithecia* 232, 233
- platyrrhine 38, 42, 72, 78, 219, 226, 231
- polyandry 11, 18, 64, 70, 160, 163, 168, 190
- polygamy 160, 164, 219, 232, 259, 261, 267
- polygynandry 11, 12, 14, 15, 64, 160, 169
- polygyny 12, 15, 19, 33, 64, 71, 160, 164, 169, 206, 220, 228, 262
- Pongo* 31, 33, 190, 191, 249, 256, 262, 276
- population density 81, 103, 113, 120, 127, 178, 220, 224, 233, 245
- population growth 179, 219, 222, 224, 230
- population sex ratio 5, 58
- predation 3, 5, 11, 19, 22, 24, 46, 59, 67, 93, 100, 101, 103, 110, 113, 115, 127, 136, 141, 144, 161, 169, 187, 203, 229, 236, 244, 256, 271, 273
- predator 4, 5, 22, 24, 31, 33, 40, 43, 47, 59, 62, 68, 91, 94, 100, 104, 110, 120, 123, 127, 130, 141, 144, 161, 186, 193, 196, 231, 273
- Presbytis* 3, 35, 49, 106, 120, 124, 130, 143, 146, 178, 185, 187, 196, 264, 272, 275
- priority of access 55, 61, 85, 108, 164, 183, 208, 214, 260
- Procolobus* 108, 113
- promiscuity 34, 45, 189, 190
- Propithecus* 59
- Prunella* 11, 15
- punishment 195
- rainfall 70, 99, 103, 123, 265
- range defense 94, 95
- rank 25, 27, 29, 34, 40, 102, 128, 138, 146, 148, 152, 156, 165, 171, 177, 183, 194, 206, 214, 245, 254, 275
- receptivity 28, 45, 200
- reciprocity 189, 195, 276
- reproductive quiescence 36, 37, 44
- reproductive skew 6, 19, 69, 184, 194, 197, 247, 273, 274
- reproductive success 6, 12, 14, 17, 28, 31, 55, 60, 63, 95, 117, 131, 143, 157, 159, 166, 174, 183, 191, 205, 216, 229, 247, 255, 271
- resource distribution 219, 271
- ritualized submission 208, 212
- roving male 23, 30, 62, 128, 166, 259, 260, 271
- Saguinus* 16, 64, 166, 219, 226, 233
- Saimiri* 73, 78, 106, 188, 233, 273
- scramble competition 131, 142, 144, 184, 187, 195, 198, 248, 253, 256
- seasonal breeding 30, 56, 60, 95, 146, 155, 200, 205, 272
- secondary dispersal 80, 132, 146, 149, 155

316 Index

- sex difference 55, 57, 190, 248, 253
- sexual coercion 6, 7, 32, 102, 104, 107, 169, 178, 188, 195, 202, 205, 271, 273
- sexual conflict 11, 14, 16, 35, 202, 258, 277
- sexual dimorphism 6, 22, 55, 100, 102, 104, 106, 132, 185, 190, 206, 215, 230, 250, 261
- sexual selection 3, 44, 55, 62, 64, 187, 261, 271, 277
- sexual swelling 7, 15, 34, 45, 100, 245, 250, 254, 262, 273, 275
- social evolution 4, 55, 63, 64, 71, 202
- social organization 3, 7, 21, 25, 42, 45, 55, 64, 71, 97, 99, 102, 106, 108, 119, 146, 154, 159, 162, 258, 276
- social structure 4, 84, 91, 93, 98, 99, 102, 104, 107, 130, 159, 161, 166, 185, 232
- socioecology 3, 4, 27, 33, 55, 61, 67, 97, 99, 107, 170, 192, 202, 271
- solitary individuals 5, 6, 22, 23, 26, 31, 39, 42, 46, 62, 108, 120, 130, 142, 169, 178, 220, 224, 238, 251, 272
- sperm competition 7, 11, 26, 61, 69, 100, 185, 198, 200, 206, 216, 274
- spider monkey, *see Ateles*
- status 18, 26, 27, 28, 43, 61, 63, 84, 163, 166, 170, 174, 207, 222, 231, 244, 247
- submission 208, 210, 212
- subordination 29, 207, 208
- supernumerary males 60, 62, 86, 89, 95, 186
- suppression 62, 227, 233, 246
- swamp monkey, *see Allenopithecus*
- synchrony 5, 13, 15, 60, 61, 93, 187, 203, 246, 272, 274
- take-over 17, 18, 41, 81, 121, 126, 128, 131, 135, 142, 163, 186, 224
- talapoin monkey, *see Miopithecus*
- tenure length 61, 148, 156, 171, 178, 275
- terrestriality 22, 31, 94, 97, 100, 256
- territoriality 22, 30, 95, 108, 159, 165, 192, 196, 203, 220, 232, 260
- testes 55, 61, 69, 100, 132, 147, 198, 199, 227
- Theropithecus* 43, 99, 100, 143, 265
- tolerance 110, 118, 127, 130, 139, 144, 176, 184, 186, 208, 215, 228, 233, 247, 255, 273, 276
- Trachypithecus* 121, 123, 124, 127
- trade-off 16, 164, 167, 186, 187, 190, 207
- transfer 6, 7, 58, 62, 97, 99, 103, 108, 156, 169, 176, 178, 220, 223, 230, 275
- travel costs 249
- vaginal plug 26
- Varecia* 42, 57, 59, 60, 248
- vigilance 59, 100, 130, 136, 141, 161, 186, 197, 203, 231, 273
- violence 206
- visibility 3, 7, 147, 155, 272, 275
- war of attrition 207, 216
- weaning 25, 28, 35, 37, 40, 57, 132, 136, 147, 226
- wounds 110, 134, 141, 206, 215