Index

adaptation 188, 513–14
  biological 233, 236, 237
  climate change 440, 441
  collective 73
  cultural 239
  mal- 240, 345, 346, 350, 354, 451
  psychological mechanisms as 128–31, 218–19
similarity by 188
Agricultural Revolution 239–40
Affective Intelligence Theory 138, 286, 291
altruism 151–2, 227, 267
  kin- 236
  group identity based 237
  reciprocal 237, 462
American Association for the Advancement of Science 21
American Political Science Association see APSA
American Political Science Review 209–10
anatomy of the brain 106–8
  amygdala 107–8, 116–17, 168, 252–3, 269, 270
  anterior cingulate cortex (ACC) 92, 107, 116, 118, 252, 270
  anterior insula 107
  area 47 279
  basal ganglia 107, 252
  central nervous system (CNS) 108, 111, 120, 169, 354
  cerebral cortex 107, 236
  dorsolateral PFC 117, 118
  fusiform face area 252
  fusiform gyrus 117
  hormonal system 108, 120
  limbic system 107, 109, 273–4
  medial prefrontal complex 107
  peripheral nervous system (PNS) 108, 120
  autonomic nervous system (ANS) 120
  somatic nervous system 108
  ventral striatum 252
  ventromedial prefrontal cortex 117
  see also neuroscience
animal behavior research 408
anthropology 408–9
anxiety 107, 127, 130, 291, 329, 450–51
  neurological theory of 286
APLS 6, 120
  9/11 attacks affecting 22–3
  foundation 22, 286
Politics and the Life Sciences 22, 23, 286
APSA 5, 6, 23–4, 209–10
Aristotle 41, 55, 214, 215, 416, 423, 527
Father of Biology 18
  heart-as-mind 108
Metaphysics 64
  no political order immutable 418
  polis 18, 77, 78, 418
  political ethics 214, 215
Politics 3–4, 18, 57, 418
  polity 62
  proportionate equality 415
  social justice 418
  theory of natural slavery 18, 228
typology of political regimes 191–2, 193
zoon politikon 55, 57, 165
Association for Politics and the Life Sciences see APLS
Atomists 18–19
  automatic mirroring 269–70
behavior
  behavioral genetics 96, 97
  egoism 216, 226–7
  genes and 92–4, 96–7, 150
  goal-directed 226
governance
  hormones and 108, 256
  neuropeptides and 108
  neurotransmitters and 107–8, 401
  judicial 10
negative
  ethnocentrism 155–6
  indoctrinability 157–8, 462
  nepotism 154
  quest for status 152–4
  sex 154–5
  violence 156–7
  xenophobia 155–6
neural activity and 252
nonverbal 289
origins of 148–50
overjustification effect 227
political see political behavior
positive
  altruism 151–2, 227
  cooperation 150–51
moral sense 151
superior intelligence 150
synergy 152
prosocial 226–7
proximate reasons for 182
social 6–7, 62
systems 59–60, 77
ultimate reasons for 182
behavioral endocrinology 255–6
behavioralism 5, 121
benevolent assimilation 18
Bentham
psychological egoism 216
Big Issues 147
best form of government 148
is war justified? 148
morally acceptable political power 148
nature of human nature 147–8, 525
origin of the state 148
proper limits of state authority 148
who should rule? 148
Big Science 476, 482, 483
biodiversity
agricultural pressures on 501–2
biological diversity 493
capping human activities 502, 503
community-based conservation 492
Convention of Biological Diversity (CBD) 487
definition 487
Diversitas 504
drivers 497
ecological functions 492
functional diversity and 495–6
ecosystem diversity 494
environmental justice, and 491–2
erosion 504
fair access to 492
functional groups 495, 496
properties of 495–6
Future Earth program 504
generic diversity 494
green economics 503
habitat change, minimizing 499
nature-based solutions (NBS) 499–500, 503–4
International Geosphere–Biosphere Programme (IGBP) 504
International Human Dimensions Programme (IHDP) 504
International Platform of Biodiversity and Ecosystem Services (IPBES) 487
diversity
life adaptive potential 492
genogetic diversity and 497
phylogenetic diversity and 496–7
organic economics 500–502
policy suggestions from ecology 497–502
political issues 487–92
preservation
ecological continuities 499
ex-situ 498
protected areas 498–9
public good, as 490–91
relevance 492–7
species diversity 494
trends 493
values 488–9
central capabilities and 490
social choice, in 489–90
World Climate Research Programme (WCRP) 504
bioeconomics 64, 68
bioethics 41, 97, 184
biological determinism 96–7, 110, 316–17
biological–political process similarities
comparative politics 197
evolutionary institutionalism 197–200
general processes 194–7
biology-in-politics, organizational structure of 20th century 21–22
deply embedded 24–5
early 18–20
fluid legitimacy 24
jurisprudence 24–5
organizational structure of 18
recent 22–4
see also biopolitics
biometrics 43
see also security
biopolicy 304, 320
academic limitations 317–18
biopolitical perspective 310–12, 318
cost–benefit analysis 306–8, 309–10, 319
environmental 307–8, 320
formulating 314–16
future application 318–20
general limitations 316, 318
humans as biological-cultural entities 310
life sciences and 312
obesity 313–14
public health 312–13, 319
mainstream political science 305–6
liberal economic theory 306–7
market model 307, 308
mainstream social science and 308
rational man model 308–10, 315
opposition to 317
political limitations 316–17
standard public policy 305, 308
see also biopolitics; biosocial science
biopolitics 85, 98–9, 196, 254–6, 256–7
bio-piracy 480
controversies in 513, 522
de-extinction 477–9, 484
euosociality 514–15
evolutionary theory see evolutionary theory
future of 476
geoengineering 479–81, 484
IPCC rejecting 480
solar radiation management 479–80
geo-piracy 480
 genetic rescue 478
group v individual selection 513–15
group/multi-level evolution 514
inclusive fitness 514
history 3–6
human group dynamics, on 311–12
institutionalization see institutionalization
media see media biopolitics
molecular genetics 515–16
opposition to 480–81
political behavior see political behavior
political science, and 526–7
research methodology in 206, 208–9
biological factors influencing behavior 207–8
conceptual barriers 209–10
design 211–12
metrics 207
subject selection 210
WEIRD experiments 210
Royal Society on 480
SETI 482–4, 484
twin studies see twin studies
see also biopolicy; genopolitics; neuropolitics
biosocial criminology 345
biosocial science 345, 356
biology/neuropsychology-intervention programs 348
cognitive-behavioral therapy (CBT) 351–2
contemporary 218–20
drug use during pregnancy 354–5
family intervention programs 353
Fetal Alcohol Syndrome 354
gene-intervention programs 345–8
Adults in the Making (AIM) 347
FAST Track 347
Strong African American Families (SAAF) 347
Video-feedback Intervention to promote Positive Parenting and Sensitivity Discipline (VIPP-SD) 346–7
nutritional supplements, effects of 350–51
pharmacological treatments 349–50
political ethics, and 218–20
postnatal harm to children 355
prenatal/early intervention programs 354–5
Nurse Home Visitation Program (NHVP) 355
biotechnology 360
bio-weapons 320
ethical, legal and social implications of (ELSI) 481
expansion of 360
food see food biotechnology
impact of 184, 370
International Service for the Acquisition of Agri-biotech Applications 360
policy divide 361
synthetic biology 477
body politic, the 4, 19
brain imaging techniques 111–13
anatomical/structural 111
debate over 113–15
electroencephalography (ECG) 112, 252
fMRI 112, 113–15, 118, 252, 520
criticism of 113–14
cross-cultural study 117
functional 111
galvanic skin response/electrodermal activity (GSR/EDA) 252
magnetic resonance imaging (MRI) 112
magnetoencephalography (MEG) 112, 252
positron emission tomography (PET) 111–12, 252
lesion studies 252
skin conductance response (SCR) 252
vulnerability of 114
brain science see brain imaging techniques; neuroscience
brain theory
inner brain 236
modular 109, 236
social brain 236
bureaucracy 273–5
origin and development 11
bureaucratic pathology 11
candidate videostyle 288
cell state, the 19
Center for Biopolitical Research 22
closure 23
children
critical and adaptive periods for 449–50, 451–2
adolescence 450, 454–5
childhood 449, 451
infancy 449, 451

Steven A. Peterson and Albert Somit - 9781783476275
Downloaded from Elgar Online at 11/15/2021 10:44:50AM
via free access
Handbook of biology and politics

juvenility 449, 454
pre-natal 449, 450–51, 456
deviant peer clustering 455
eyearly maturity and elevated risk 455
education 457
environmental stressor influences on 449, 450, 451, 452
influences on reproductive strategies 449–56
environmental stressors 452, 453–4
parent–child relationship 452–3
insecure attachments 453–4
natural enforcers of norms, as 227
parent–child relationship 452–3
self-stereotyping 227
supporting 457–8

Becoming a Man program 457
Communities in Schools program 458
secure attachments 454
see also reproductive strategies; stress; women
choice
emotionally biased 169
natural selection, in 227
political 78, 94
public choice models 120
rational choice theory see rational choice theory
social 70, 264, 489–90
classifications 191
climate change 431, 441–2
Climate Change Adaptation Roadmap 440
denial 29–8, 30
educational level, and 31
political conservatives 33, 34
religious fundamentalists 32
domestic security threat, as 440–41
fragile states, threatening 440
Intergovernmental Panel on Climate Change 439
rejecting geoengineering 480
international security threat, as 439, 441
intrasate conflict, leading to 438
intrasate cooperation, leading to 438
US homeland security, and 439–41
see also environmental security; resources; security
cognitive science 263–4, 287, 311, 315
Cold War 431, 433, 436, 479
space race 482–3
communicative artifacts 463, 464
comparative biology see morphology
comparative policy choices 13
comparative politics 12, 181
cross-historical 197
biopolitics and 183–4
comparative biology, and 181–3
genuine objects of 196
morphological challenges for 185–6
see also biopolitics; morphology
conflict 12
intrasate 438
resources, over 370–71, 373, 435
social 75, 264
suppression of 464
tension 75–6
see also resources
consilience 126
not the same as reductionism 141
constitutional design
concurrence 469–70
additive index of 469–70
governing strategy selection into authoritative decisions 469
measuring 469
cooperative dilemmas and 463–5
democracy see democracy
evolutionary theory and 461
freedom evolving 471–2
governmentality 465
institutionalization of codified behavior 464
legibility 465–7, 471–2
absence of 465
adaptive, being 466
authoritarian high modernism 466
hyper- 466–7
hypo- 466–7
institutionalization of 467
parasitism 465
permissiveness 467–9
Freedom House index 468
measuring 467–8
regulating variation in potential strategies 468
political equality 471
see also cooperation; niche construction
cooperation
direct reciprocity 519
evolution of 518–20
group selection 519–20
indirect reciprocity 519
kin selection 62–3, 518–19
productivity dilemma 464–5
overcoming 467
social parasitism 464, 465
suppression of conflict 464
synergistic benefits of 463
creation science 27, 38
cultural artifacts 472

Steven A. Peterson and Albert Somit - 9781783476275
Downloaded from Elgar Online at 11/15/2021 10:44:50AM
via free access
Index

- cultural evolution 235, 237–8
  - dominance, of 239–40
- cultural inheritance enhancing genetic fitness
  - 463–4
- cultural neuroscience
  - 115–16, 174–5
    - definition 174
    - gene–culture–brain interactions 174
    - cultural value collectivism 175
- cybernetics
  - 58–62
    - definition of politics 58, 61–2
    - goal-oriented 58–9, 60
    - models 59, 60–61
    - regulatory processes 60
    - systems behavior 59–60, 77

Darwin, C.
- Darwin's finches 66
  - On the Origin of Species 149
  - The Descent of Man (1871) 72
- Darwinian theory
  - democracy and 527–8
  - natural selection 6, 65
  - neo-Darwinism 6–7, 62, 148
  - see also evolutionary theory; natural selection
- Darwinism see Darwinian theory; evolutionary theory
- Dawkins, R.
  - 62, 463–4
- decision making
  - 12, 166–7, 275–8
  - decision rules 277
  - heuristics 276–8
  - hiatus rule 277
  - *homo economicus* model 168
  - *homo neurobiologicus* model 168
  - mental shortcuts in 275, 276, 277
  - multiple centers, involving 275–6
  - neural processes of 168–9
- democracy
  - 234–5
    - advanced form of evolved cooperation, as 462
    - culturally-evolved tool, as 462
    - Darwinian 461, 470
    - evolutionary-institutionalist perspective
      - 462–3
    - fundamental restraints on 462
    - proportional representation 468–9
    - see also constitutional design
- Descartes' dualistic mind/brain theory
  - 108, 109
- detailed visual categories
- developmental psychology–evolutionary biology merging
  - 446–8, 449
- dominance
  - 234–5, 237
  - cultural evolution of 239–40
  - female 238
  - political 239
- dominance hierarchy 56
  - adaptive obedience 462
  - reverse 72
  - egalitarianism being 255
- ecology
  - policy suggestions from 497–502
  - see also biodiversity
- economics
  - behavioral 410–11
  - bio 64, 68
  - evolutionary 68
  - experimental 410–11
  - liberal economic theory 306–7
  - market model 307
  - organic 500–502
  - rational man model 308–10, 315
  - utilitarian models 309
- ELSI 481
- ELT see evolutionary leadership theory
- emotion 119
  - adaptive syndromes 269
  - catalyst of information acquisition, as 286
  - moral 219
  - politics, in 268–70
  - voting, and 117
- environment
  - genes co-dependence 110, 111, 319, 346
  - influencing political traits 85, 99
  - environmental health 319, 320
  - environmental security 320, 431, 434–9
    - climate change see climate change definition 435
    - dimension of national security 436–7
    - Geographical Combatant Commands 437
    - ecological security differentiation 435
    - emergence of concept 434–5
    - Environmental Hubs 435, 437
    - Environmental Protection Agency (EPA) 435
    - exponential world population growth 437–8
    - resource policy 431
  - see also resources; security
- epidemiology 25, 172
  - epigenetics 99, 111, 196
- ethics
  - Divine Command theory 225
  - ethical judgments, teleonomic processes, as 225–6
  - ethical norms 226
  - meta- 224–5
  - naturalistic fallacy 225–6, 413, 417
  - objectivism 225
  - political see political ethics
public administration, in 279–80
relativism 225
ethology 55–7, 210
ethological analysis 286
human 210
eugenics 5, 96, 97, 461
movement 20, 248
evolution 27, 181
agricultural revolution theory 75
Basic Law of 75
complex societies, of 75–6
Synergism Hypothesis, and 76–7
disbelief see evolution disbelief
human see human evolution
natural selection see natural selection
political see political evolution
population pressure theory 75
primate-to-human 237
social conflict and 75, 264
warfare in 74–5
evolution disbelief 28, 31, 35
creationist movement 27–9
educational level, and 31, 38
 genetic approach to 34–5
political conservatives 33, 34, 38
religious fundamentalists 32, 34, 36, 38
social transmission of 35
 conforming 37
 maintaining religious traditions 37
reflecting time and place 35–6
evolutionary biology
ethnic conflict 169–72
ethnosymbolism 170
foreign policy analysis, and 166–7
inclusive fitness 62, 236, 462
international relations and 165–6, 171
kin detection 264, 266
kin selection 62–3, 518–19
life history theory 446–7, 458
male warrior hypothesis 171
multi-level selection see multi-level selection
nationalism 169–70
hyper- 170–71
neo-Darwinism 6, 62
reproductive self-interest 62–3
selfish gene 62, 63
terrorism, and 172–3
epidemiological model 172
suicide 172–3
evolutionary-developmental biology 446–8, 449
Adaptive Calibration Model 447
life history strategies 447
life history theory 446–7, 458
phenotypic plasticity 446, 450, 458
policy implications 456–9
psychosocial acceleration theory 446
reproductive strategies see reproductive strategies
evolutionary economics 68
evolutionary institutionalism 197–200
institutional generation 198
evolutionary leadership theory 167, 231–2, 243, 244–5
cultural evolution 235, 237–8
democracy 234–5
distinctiveness of 235
distinguishing theses of 231
dominance 234–5, 237
cultural evolution of 239–40
female 238
Flintstonization 237–8
followership 231, 232, 237
functional inertia 199
key concepts, debate over 234
killer ape 237
lacking general theory 234
leader–follower relationships 235–6
altruism in 236–7
cooperation, biological evolution of 236–9, 240–41
deception in 243–4
developmental stages 237
follower evaluations of leaders 255
leadership failure 241
service-for-prestige theory 241–4
strategies to overcome the powerful (STOPs) 238–9
natural selection, and 235
overconfidence 167–8
peaceful ape 238
proximate 232–3, 234
structural inertia 199
ultimate 232, 233, 234–5
evolutionary psychology 126, 236, 264–5, 410, 462
deservingness heuristic 134, 135, 139, 271–2
proper domain of 134–5
mapping 138–40
motivational systems 137–8
representational systems 135–7
intergroup bias 171–2
social cooperation, on 265–6
evolutionary theory 209, 254
adaptation 513–14
applicability 461
constitutional design, and 461
evolutionary core of biopolitics 6–7
generalized 197
natural selection 65
neo-Darwinian 6, 148, 208
pre-Darwinian 461
punctuated equilibrium 525
variation 513
see also natural selection

Facial Action Coding System (FACS) 290, 293
see also media biopolitics
food biotechnology 360, 377–9
Brazil, in 369–73
commercialization 370, 372
conflict over 370–71, 373
For a Brazil Free of Transgenics 372
labeling 372
Law of Biosecurity (2005) 373
Monsanto 370
National Biosafety Technical Commission 369, 370, 373
National Council on Biosecurity 373
opposition to 371–2
regulatory chaos 369–70, 372
Rio Grande do Sul ban on 372
signatory to UN Convention on Biological Diversity 369
debates over 361
European Union, in 373–7
commercialization 375
Directives 374–5, 376, 377
European Food Safety Authority 376
Food and Feed Regulation 377
mandatory labeling 375, 376
moratorium on release 374
national strategies 375, 376
opposition to 376
precautionary principle 374, 376
regulatory framework 373–4, 375, 376–7
labeling comparison 378
Monsanto 362–3, 375
Millions Against Monsanto 365
policy comparison 378
policy divide 361
protective regulatory policy 361–2
top 10 countries 360–61
unequal distribution 360–61
United States, in 362–9
concern over 364
first commercialization 362
FDA see Food and Drug Administration
Flavr-Savr tomatoes 363
food industry campaigns 366, 369
Initiative 522 366
Just Label It campaign 365
labeling 365–6, 367, 368
Label it Yourself program 365
mandatory pre-market notification 364–5
No 37 365–6
opposition to 365–6
ProdiGene 365
regulatory framework 362–3, 364
StarLink corn 363–4
Ventira 365
voluntary consultation 364–5
Yes on 37 365
see also biotechnology
Foucault, M. 40–41
biopolitics and population 41–2
biopolitics and racism 43–4
biopolitics and ‘police’ 46–7
biopower 41, 42
disciplinary power relations 47–8
normalization of 42
conduct 44–6
disciplinary power 41–2
–biopower relation 47–8
normalization of 42
individualization 45
norms 41–2
pastoral power 45–6
political technologies 47–8
power 40
as normalization 42
critique of 49
human rights, and 49–50
resistance to 48–9
sexuality, on 42
thanatopolitics 43
The Birth of Biopolitics 47, 48
game theory 11, 63, 196, 414
prisoner’s dilemma 264–5
gene expression 98–9
pollutants altering 446
genes
candidate 249–50
dopaminergic system 345–6
–environment co-dependence 110, 111, 318, 346
heritability 92, 93, 249, 345
economic attitudes 93
personality traits 93–4
political traits 92–3, 96–7
religiosity 93
specific attitudes 93
MAOA 96, 108, 346
media consumption patterns, and 96
politics and see genopolitics
serotonergic system 345–6
social networks, and 95
twin studies see twin studies
Handbook of biology and politics

genetics 7
behavioral 96, 97, 409–10
DNA 360
epi- 99
explosion in research 318–19
genomic studies 249–50
influencing political orientation 85, 116
molecular 25, 97
political 254
Prader-Willi syndrome 314
genocide 461
genome 64, 89
inge- 446
Human Genome Project 481
parliament of genes 464
sequencing 478
-wide association studies 85, 92, 248, 250
-wide complex trait analysis 98
genopolitics 85, 91–2, 96–9, 249–50, 263, 280
complementing neuropolitics 110
political attitudes 92–4
political behavior 94–5
political ideology 92–3, 99
intermediate variables 93
political traits 95–6, 97–8
party identification 95
research 96–7
direction of causation models 97
genome-wide association studies 249
limitations on 251
longitudinal data 98
partisan identification 250–51
voter turnout 250
social networks 95
social trust 95–6
toory of political behavior 249
see also biopolitics; neuropolitics; political behavior
genotype 90, 110, 111, 198, 347
genopolitics 432–3, 462
resource 431, 432, 439, 441
see also climate change; environmental security
gestalt coding 288
group entitativity 175

hierarchy 20, 43
chimpanzees, among 222
dominance 56–7, 58, 153, 173
reverse 57, 72, 255
obedience 153
political theory 195, 215
values and ethics, of 488–9

Hobbes, T. 57, 268, 413
Leviathan (1651) 62
state of nature, on 152
violence 156
human evolution
arboreal to terrestrial transition 71–2
Australopithecus garhi 72
behavioral shift 73
cooking hypothesis 73
Homo erectus/Homo ergaster 71, 73
Homo Neanderthalensis 148
Homo sapiens 73–4
resource acquisition model 74
technological innovation 73
tool use 72–3
human evolved preferences
cheat detection 271
face-to-face interaction 76, 134, 271, 275
social cooperation, in 271–2
see also social cooperation
Human Genome Project 481
human morality 219, 220, 228
agent-neutral obligations 219
human nature 5–6, 407–8
basic needs 412–13
biologically-based individual differences 411
ethnocentrism 155, 158, 170, 411
malleability of 411
nature of 11, 147–8, 525
preferences 412
research 408–11
social contract see social contract 227, 406
tabula rasa, as 56
xenophobia 152, 155, 170–71, 411
inclusive fitness (theory) 7, 62, 64, 152–3, 236, 462
lessening 151
maximizing 75–6, 148, 150, 151, 158
individual reproductive success 6–7, 153, 514
see also reproductive strategies
individualization 49
technologies of 45
institutionalization 200
biopolitics, of 6
codified behavior, of 464
legibility, of 467
intelligent design 27, 29
interdisciplinarity 23, 126
biosocial 231, 232
bridging problem 140
growing 319
pattern recognition at heart of 141
internal conflict 13
International Committee Against Racism 21
Index

International Committee of the Red Cross 19
International Political Science Association see IPSA
international relations 12
deterrence theory 168
evolutionary biology, and 165–6, 171
cultural conflict 173–6
ethnic conflict 169–72
foreign policy analysis 166–7
nationalism 169–70
terrorism 172–3
evolutionary leadership theory 167–8
key areas 165–6
states-as-actors perspective 166
see also evolutionary biology
International Social Survey Programme 27
IPSA 6
  Research Committee #12, Biology & Politics 22
IQ paradox 90
ISSP see International Social Survey Programme
judicial behavior and public law 10
justice
egalitarianism 228
equality–egalitarian debate 228
libertarian theories of 227–8
social 415, 418, 425
socialist theories of 227, 228
Keystone XL Pipeline 315–16
Kropotkin, P. 150–51, 218
law as a public phenomenon 10
Locke, J. 19, 62, 109, 156, 195, 215, 268, 413
Lucretius 18
  De Rerum Natura 18–19
  see also Atomists
Machiavelli, N. 215, 220
Machiavellianism 167, 232
Marx, K. 75, 273, 491
  utopian socialism 414
Marxism 371
  Médecins Sans Frontières 20
mediabipolitics 284
  affective framing 289
  conceptual advances 289
Dartmouth Group, the 287
  disciplinary oversight in 288–9
  early history 285–6
  foundational study 285
future directions 298
information processing paradigm 286
mediated interaction 291, 292
methodology 290, 293–5
  content analysis 293–4, 297
  facial EMG 295
  FACS coding 290, 293
  lab-based experiments 294
  news analysis 288, 295–6
  nonverbal communication 287, 289, 293
  coding 287–8, 296
  display appropriateness 297
  expressive 294, 295, 297
  response evaluation 289–90
  presidential debates, use in 296–7
  primacy of visual processing system 293
  social information value of images 289
  theoretical grounding
    psychological value of news 290–91
    threat environment 291
  viewer processing of traumatic news model 292–3
  see also nonverbal communication;
  observational research
mediated images 285, 288
metaphor 3, 4, 19, 65, 196–7, 198, 315
  market failures 308
  selfish gene 62, 63
molecular genetics 25, 97
  see also genetics
  moral
    behavior 219
    emotion 219, 225, 226
    reasoning 226
    sense 151, 229
    see also ethics
  morality, human see ethics; human morality
  morphology 185
    analogy 188
    challenges for comparative politics 185–6
    challenges for comparative research 186–7
    comparative politics and 181–3, 190–91
    core of Systema Naturae, at 181
    homo-analogy 189
    homodynamy 189–90
    homology 187–8
    similarity 190
      by adaptation–by origin distinction 188
      typology building and 193–4
      see also comparative politics
multi-level selection 62
  general selection 63
  group selection 63, 519–20
  Price equation 63
  symbiotic partnerships 63
mutation 465

cultural 198

gene tic 65–6, 235, 391, 401

institutional form 199

National Institutes of Health (US) 319

National Science Foundation grants 319

National Survey on Drug Use and Health 354

natural selection 6, 218

causal agency, as 65

choice in 227

evolution through 255

evolutionary leadership theory, and 235

mechanisms of 235

nature–nurture debate 317, 402

neuropolitics 248, 251–2, 278–9

genopolitics complementing 110

limitations on 254

research 252–3

brain regions possibly pertinent to 252–3

electrodermal activity studies 253

facial electromyography (EMG) 253

neural responses 253

t heory of political behavior 251

see also biopolitics; genopolitics

neuroscience 7–8, 93, 106, 409

anatomy of the brain see anatomy of the brain

behavioral governance 108, 110, 119, 401

neural activity 252

brain imaging techniques see brain imaging techniques

brain paradigm 110–11

central nervous system 108

cognitive 314

cultural see cultural neuroscience

holistic theory 109

imaging techniques see brain imaging techniques

impact of genetics 96, 106, 109, 254, 314

integration foci 109

localization theory 109, 113

mind/brain distinction 108–9

modular brain theory 109, 114–15

neuroimaging and political behavior 520–22

neurotransmitters see neurotransmitters

parallel processing capacity 109, 112

peripheral nervous system 108

political see neuropolitics

social see social neuroscience

specialization theory 109

supporting biological basis for empathy 311

tabula rasa theory 109

thin slice judgments 116–17

neurotransmitters 107, 121

behavior, and 108, 401

catecholamines 169, 269

dopamine 385

inhibitors 385, 400, 401

neurotoxins and see toxicology

norepinephrine 385

serotonin 107–8

New Caucus for Political Science 5

niche construction 463, 464–5

strategies 467

Nietzsche, F.

ethics, on 218

nonverbal communication 287, 289, 293

analysis 293

blinking 296–7, 329–30, 331–2, 332–3, 334

coding 287–8, 296

expressive 294, 295

inappropriate 297

hand–mouth displacement 330, 332, 333, 335

response evaluation 289–90

tension leakage 296

voiced and unvoiced laughter 330–31, 332, 333, 336

nonverbal expectancy violations theory 297
	norms 41–2

children as natural enforcers of 227

ethical 226

observational research 324–5

benefits of 325

definition 324

future 337

nonverbal behaviors during interviews 328–9, 332

blinking 329–30, 331–2, 332–3, 334

hand–mouth displacement 330, 332, 333, 335

voiced and unvoiced laughter 330–31, 332, 333, 336

political behavior, of 325–6, 327

cues 326

signals 326

television interviews, of 327–8

application to politics 336–7

findings 332–4

methods 331–2

see also nonverbal communication

Pareto/Negative Binomial Distribution model 277

parliament of genes 464

participatory acts, whether having social elements 98
personality traits 31, 93–4, 97–8
genetic underpinnings 98
phenotype 64, 65, 86, 456
behavioral 94, 110
changing 446
extended 463
political 89, 90, 91
phenotypic expression 110
phenotypic plasticity 446, 450, 458
Concerning Justice 418
no immutable political order 418
polis 77–8
political ethics 214–15
polity 62
republic 414
The Republic 3, 416, 418
social justice 415, 418, 425
Socrates 214–15
political animal 55, 57, 165
dominance hierarchy 56–7, 58
reverse 57
evolution of 70–72
social cooperation 57, 58, 62, 63–4
see also social cooperation
political attitudes and genes 92–4
political behavior 8
behavioral endocrinology studying 255–6
elite 9–10
evolutionary leadership see evolutionary leadership theory
genetic and 94–5
genopolitics see genopolitics
mass 247–8, 256–7
cognitively engaging public issues 247, 248, 256
drivers of 247
forming opinions 247
resource perspective on 256
thin slice information, and 116–117
political development 12–13
political devolution
coevolution and 70
decline of system 69–70
definition 69
synergy minus one 69
temporary systems 70
political ethics
Aristotelian 214, 215
biosocial science, and 218–20
deontological 217
history 214–8
Machiavellian 215
modern 215–16, 217
Platonic 214–15
policy, of 224–9
process, of 220–4
substantive 227–8
utilitarian 215–17
political evolution
conflict theory of 75–6
interactional paradigm 67
situation specific 67
social evolution, tracking 77
synergistic nature of 68–9
variables in 68
political orientation 8
genetics influencing 85, 116
political organizational leadership 231
see also evolutionary leadership theory
political participation 8–9
political philosophy 11–12
Big Issues see Big Issues
evolutionary perspective 147, 158–9
is–ought issue 11
political psychology 116, 311
political science 8
behavioralism 5, 121
Big Ideas 206
biopolitics and 526–7
central mission 78
professionalization 461–2
political systems 55
political theory
basic problems of 228
influence of evolutionary biology on 62
politics
cybernetic model see cybernetics
defining 55–8
emotion in 268–70
future of 77–8
genes, and 85, 91–2
geo see geopolitics
idealist/holist model 55, 57
natural sciences, and, post-WWII 21
problems facing 21–2
realist model 55, 57
social cooperation see social cooperation
Price equation 63
prime mover theories 75–6
not working 76
problems facing inter-disciplinary study 21–2
property spaces 191
psychology
adaptationist analysis 140
adaptive problems 131–3
identifying 132, 133
cognitive 127
cue analysis 140–41
environmental stressors, and 449, 450, 451, 452
fast 448, 451–2, 455
adaptive, as 449
insecure 453
parent–child relationships and 452–3
secure 453
slow 448
future-oriented, as 449
women’s lives influencing their children’s
449–56
see also children; women
research methodology
biopolitics, in 206, 208–9
media biopolitics, in 290, 293–5
observational research see observational
research
secondary data 324
self-report surveys 324
resources 432–3
–conflict link 435
definition 432
essential 433, 437
inferred 433
politicization of trade in 433–4
pressure on 438
reserves 433
socioeconomic
see also climate change; environmental
security; security
rights
conventional–fundamental distinction 227
Rousseau, J.-J. 156, 413
The Social Contract 4
Scientific Revolution 19, 482
Scottish Enlightenment 461
security
10/40 window 438
biometrics 43
climate-induced stressors as threat
–multipliers 435, 436
deterrence theory 168
environmental see environmental security
environmental role in 436, 438–9
exponential growth of world population,
and 437–8
regional instability, minimizing 436–7
studies, broadening scope of 435–6
US national/homeland 431
climate change and 439–41
democracy, and 437
Department of Homeland Security CCA
Roadmap 440
DoD Quadrennial Defense Review 435,
440

Steven A. Peterson and Albert Somit - 9781783476275
Downloaded from Elgar Online at 11/15/2021 10:44:50AM
via free access
National Security Strategy 436
National Strategy for Combating Terrorism 440
policy 431–2
Preventive Defense Strategy 437
selfish gene 62, 63
SETI 482–4
Cold War and 482–3
funding 483–4
Institute 483
Project Ozma 483
sexuality
Foucault on 42
Scientia sexualis 42
similarity
analogous 188
anti- 228
by adaptation–by origin distinction 188
slavery 228
theory of natural 18
Smith, A. 47, 307
The Wealth of Nations (1776) 66
Smith, J.M. 62, 63, 326
synergistic selection 65
social behavior 6–7, 62
social contract 227, 406–7, 413–14
bio- 412, 414–16, 425
percepts of 416, 417, 421
collective survival enterprise 412–13
Declaration of Independence 414
definition 414
European Way 421–2, 424–5
fairness 406, 411, 413
equality 416, 419, 421
equity 416, 420, 421
reciprocity 416, 420–21, 519
violation of 421
welfare state, the 423
human nature 407–8
naturalistic fallacy 225–6, 413, 417
Norway, in 422, 423–4
public interest 418
re-writing 417–18
social justice 415, 418, 423, 425
United States, in 419–21, 424
willing consent 418
see also human nature
social cooperation 57, 58, 62, 63–4
biological evolution of 236–9, 240–41
conditional reasoning experiment 266–7
corporate goods 64
decision rules 266
enforcement 265
engineering 240
enhancing 271
ensuring 266
evolutionary psychology on 265–6
factors influencing 264, 265
free-riding 266, 267
game theory on 264–5
group identity 240–41
human evolved preferences in 271–2
positive behavior, as 150–51
propensities facilitating 264
public good experiments 267
punishment 267
rulemaking 265
wary co-operators 255
social Darwinism 20, 209
social exchange 270
social neuroscience 119–21
affect 118–19
emotion 119
voting, and 117
hormonal effects of election results 118
neural functioning
automatic processes 118, 119–20
controlled processes 118–19
neuronal approach 117
politics and 115–19
restraints on 120
Society Works Best index 92
sociobiology 21
inclusive fitness 514
Southern Political Science Association 6
SSSM see Standard Social Science Model
Standard Social Science Model (SSSM) 109, 206, 248
conceptual barrier, as 209
stress
birth outcomes, affecting 450
child development, affecting 450–51
environmental
harshness 452
unpredictability 452
epigenetic changes, causing 451
fetal programming, impacting 450
superorganism 71, 418–19
complex human society as 76–7
Synergism Hypothesis 64–6, 70, 76–7
interactional paradigm 67
synergy
cooperative effects 65, 463
functional 64
synergism hypothesis see Synergism Hypothesis
synergistic selection 65
humankind, in 66–7
systema regimini 185
teleological explanations 225, 233
teleology, political 228
teleomatic processes 225
evolution as 226
teleonomic processes 225–6
theory of natural slavery 18
toxicogenomic effects of abandoned mines 396–400
heavy metal toxicity 397–8, 400
antimony 399
mercury 398, 399
Kanesatake Mohawk study 397, 398–9
Oujé-Bougoumou Cree study 397–8
toxicology 25, 384
National Toxicology Program 401
Total Toxic Exposure Index 398, 399
Toxic Release Inventory 400

toxins
lead 384–5
blood levels 388
neurotoxicity 386, 389
uptake–violent crime association 389, 390, 391
manganese 384–5
uptake–violent crime association 393
neurotoxins, neurotransmitters and 400
policy considerations 400–402
environmental factors, health and
behavior 391, 392
importance of interventions 394, 395
interactions between influential factors
392, 393, 394
silicofluorides in public water 385–6, 387, 388, 400–401
lead neurotoxicity and 386, 387, 389
need for moratorium on 389
uptake–violent crime association 393, 394, 395, 396
twin studies 86–8, 345
ACE model 86, 88–9
A estimates 89, 90
assumptions of 88–91
environmental selection 90
equal environments 89
no assortative mating 90
no gene-by-environment interaction 90–91
no interaction between genetic variants 89
gene–environment correlations 90
heritability 92, 93, 249
additive 89
estimates 89, 90–91
models of variance in 87
observed correlations in 87
phantom heritability 89
political ideology, of 92–3
politics and 516–18
structural equation modeling 517–18
usefulness of 86
see also genes; genetics
typology 191–4
building, morphology and 193–4
legislatures, of 192
political culture, of 192
political regimes, of 191–2, 193
see also individual systems
voting
socioeconomic resources affecting 254–5, 256
see also political behavior
warfare see conflict
Weber, M. 44, 182
rationality 273
Wilson, E.O. 21
neo-Darwinian Theory and social behavior
6–7
sociobiology 6
Wilson–Patterson Attitude Inventory 92
women
influence on children’s reproductive
strategies 449–56
primary communicators of environment to
children 445, 449
reproductive strategies 445
see also children; evolutionary–
developmental biology; reproductive
strategies
zoon politikon see political animal