

# INDEX

- Abandoned mines, multiple toxicants  
at sites of, 150–157
- Abortion law, 185
- Adoption of Children and the  
Prohibition of Surrogate  
Motherhood, 191
- Adoptionsvermittlungsgesetz*  
(AdVermiG). *See* Adoption  
of Children and the  
Prohibition of Surrogate  
Motherhood
- Affiliation, 123–124
- Agency for Toxic Substances and  
Disease Registry  
(ATSDR), 155–156
- Agricultural revolution, 34
- Algorithmic governance, 96
- American Medical Association, 187
- American Political Science, 9–10
- American Society of Reproductive  
Medicine, 187
- Artificial insemination (AI), 184–185
- Assisted reproductive technologies,  
184
- Austin, John, 82
- Bacillus Calmette-Guérin (BCG), 202
- “Balance of power” scenario, 34
- “Basic Law of Evolution”, 34
- Basic needs, 80
- Behavior, 137–140
- Behavioral dysfunctions, 149
- Behavioral epidemiology, 144–148
- Behavioral genetics, 110
- Behavioral traits, 54
- Behaviorism, 72–73
- Beliefs, 112–114
- Belonging to group, power of,  
122–127  
affiliation, 123–124  
cooperation and conformity,  
124–125  
fairness, 127  
stereotypes and prejudice, 125–126
- Belyaev’s rule, 59–60
- Between-group selection, 57
- Big Idea, 10
- Bill of Rights, 80
- Biodiplomacy, 100–101
- “Bioeconomics”, 29–30
- Biological factors, 11
- Biology and politics (Biopolitics),  
10–11  
American Political Science, 9–10  
current literature, 17–22  
developments, 22–23  
neo-darwinism, 14–15  
organizational aspects, 15–17  
organizational enterprise, 11  
reflections, 23–24  
by subarea, 13
- Biology and psychiatry, 168–169
- Biomarker of effect, 138–139
- Biomarker of exposure, 138–139
- Biomarker of susceptibility, 138–139
- Biomarker reliability, 138–139
- Biopolicy, 12, 14, 22–23
- Biopolitical knowledge, 91–92
- Biopolitical scholarship, 91–92
- Biopolitical science, 64–65  
domesticated animals, 58–62  
familial animal, 62–64  
gregarious animals, 49–51  
moral animals, 54–58  
political animals, 51–54
- Biopolitics, 1–5, 163–164, 199–200  
biopolitical challenges to region-  
alism, 99–100  
of COVID-19, 91–92  
foreign policy analysis, 100–101

- global biopolitics, 101–102
- international relations perspective, 95–100
- new biopolitical inequalities, 98–99
- security perspectives, 93–95
- “Biosocial contract”, 39
- Biosocial variables, 1
- Biotechnological drugs, 214
- Biotechnology, 203
- Bisexual aggregations of primates, 50
- Braintrust*, 74
- Bürgerliches Gesetzbuch (BGB), 191–192
- By-product mutualism, 52
  
- Campbell Point Mine (CPM), 152
- Canon Law, 79
- Capitalist economic system, 37
- Center for Disease Control (CDC), 187
- Centers for Medicare and Medicaid Services (CMMS), 187
- Changing strategies, 200
- Citizen information networks, 131
- Citizen-voters, 109
- Citizens, 128–129
- Civilization, 34
- Climate warming, 36
- Cognition, 111, 116
- Cognitive processing, 117–118
- Cognitive sophistication, 56
- Collective social action, 32
- Collective violence, 33
- Colonial raiders (*Messor pergandei*), 33
- Commercialization, 198–199
- Communitarian ethics, 70
- Comparative public policy perspective, 6–7
- Competition for status, power of, 127
- “Complex feed-back loop”, 61
- Complex societies evolution, 33–34
- Computational theory of mind, 110–111
- Conformity, 124–125
- Consequential ethics, 70
- Constitutional democracy, 80–81
- Consumer citizenship, 199
- Contemporary human societies, 28
- Contemporary knowledge, 110
- Contemporary neurotoxicology, 138–139
- Conventional public policy studies, 204
- Cooperation, 31, 124–125
- Cooperative action, 52
- Copper Rand Mine (CRM), 152
- Corona virus, 91–92
- Correspondence theory, 113
- Cosmic Calendar, 71–72
- Cosmic chronology, 71–72
- COVAX, 102
- COVID-19
  - biopolitics of, 5
  - crisis, 91–92
- Cultural evolution, 34
- Cultural practices, 53
- Culture advances, 34
- Cybernetic model of politics, 31
- Cyprus Peace Operation, 208–209
  
- Declaration of Independence, 78–79
- Deconstruct policy, 109
- Democrats, 19–20
- Deontological ethics, 70
- Descent of Man, The*, 35–36
- Deutscher Ethikrat* (DER), 193
- Development Plans, 7, 205
  - 1st Five Year Development Plan, 206
  - 2nd Five Year Development Plan, 207
  - 3rd Five-Year Development Plan, 208
  - 4th Five Year Development Plan, 208–209
  - 5th Five Year Development Plan, 209
  - 6th Five Year Development Plan, 209
  - 7th Five Year Development Plan, 211

- 8th Five Year Development Plan, 211–212
- 9th Five Year Development Plan, 213
- 10th Five Year Development Plan, 213–214
- 11th Development Plan, 214
- Do it yourself program (DIY program), 16
- Document analysis, 205–206
- Domesticated animals, 58–62
- Domestication syndrome, 59–60, 62
- Dominant Modern Synthesis paradigm, 29–30
- Dopamine, 137–138
- Dworkin, Ronald, 83–84
- Economics, 169–170
- Egalitarian ethos, 55, 57
- Egalitarian political structure, 28–29
- Egalitarian syndrome, 28–29
- Embryo Protection Act, 191
- Embryonenschutzgesetz* (ESchG). *See* Embryo Protection Act
- “Emergence theory”, 30
- Emotion, 111, 117, 120
- Endocrinology, 163–164
- Endogenous oxytocin, 165–166
- Engeli’s theoretical framework, 184
- English Common Law, 79
- “Environmental circumscription”, 34
- Environmental Impact Statement, 1
- Equality, 39
- Equity, 39
- Ethology, 1–2, 12, 14, 17
- Eudaimonia*, 69
- Eugenics, 72–73
- “Eugenics”, 12
- European Court of Human Rights (ECHR), 190
- European Economic Community (EEC), 208
- European Society of Reproduction and Embryology (ESHRE), 186
- European Union (EU), 197–198
- Evolutionary psychology, 10, 29–30, 62, 110
- Evolutionary theory, 10–11, 17–18
- Exogenous oxytocin, 166–167
- Experts, 114–115
- Factor analyses, 144
- Fair Society, The*, 17
- Fairness, 127
- Familial animal, 62–64
- Finnis, John, 83
- Five-Year Development Plans of Turkey, 205
- Folk psychology, 70
- Food and Drug Administration (FDA), 187
- Foreign policy analysis, 100–101
- Formal hypothesis, 30–31
- Four-part framework of analysis, 68, 70–71
- Free market capitalism, 39
- French family law, 185
- French reproductive technology policy, 189–191
- Fulle, Lon, 82–83
- Functional Magnetic Resonance Imaging (fMRI), 19
- Gamete cryopreservation, 185
- General Agreements on Tariffs and Trade (GATT), 203
- General Law of Sanitation, 202
- Genetic research in political science, 19
- German National Socialism, 72–73
- German reproductive technology policy, 191–193
- Gestational surrogacy, 185–186
- Global biopolitics, 101–102
- Global civilization, 36
- Global Emergency Management Agency, 39
- Global state of emergency (2021–2022), 96
- Global superorganism, 38
- Global warming, 36

- Globalization, 203  
 Google Scholar, 21  
 Gossip, 121–122  
 Governmentality, 95, 100, 199  
   immunization as technology of,  
     199–201  
   operating “governmentality” in  
     public policy analysis,  
     204–206  
 “Governmentalization of the state”,  
   204–206, 209  
   to neoliberal governmentality,  
     201–203  
 Gregarious animals, 49–51  
 Group behavior, 172  
 Group selection, 51–52  
 Group-mindedness, 52  
 Gut feelings, 117  
  
 Hart, H. L. A., 82  
 Health diplomacy, 100  
 “Health for all principle”, 199  
 Health Services Basic Act, 203  
 Health Transformation Program,  
   197–198, 203, 211–212  
 Heavy metals, 148–149  
 Hedgehogs, 115  
 Heuristics, 116–117  
*Hifzıssiha*, 201–202, 206  
 “Holist” model. *See* “Idealist” model  
*Homo erectus*, 31–32  
*Homo politicus*, 15  
*Homo sacer*, 92  
*Homo sapiens*, 14–15, 48–49, 57, 60,  
   74–75  
 Hope, 38–40  
 Hormones, 163–164  
 Human behaviors, 171–172  
 Human being, 48  
 Human brains, 111  
 Human cognition, 120  
 Human cognitive operation, 110–111  
 Human interaction, 127  
 Human nature, 5–6  
*Human Nature in Politics*, 1, 11  
 Humans, 110  
   control, 115–116  
   *Cursory v. Elaborate*, 112  
   experts *v.* novices, 114–115  
   implications for limits of policy  
     success, 127–131  
   instincts and gut feelings, 117  
   learning and beliefs, 112–114  
   power of belonging to group,  
     122–127  
   power of competition for status,  
     127  
   power of interpersonal relation-  
     ships, 120–122  
   prone to mistakes, 116–117  
   role of emotion, 117–120  
   thinking, 110–117  
  
 “Idealist” model, 28  
 Identical twins, 19  
 Illiberalism, 103–104  
 Immunization, 199, 203, 210–211  
   of modern societies, 200  
   neoliberal governmentality of, 198,  
     213–214  
   as technology of governmentality,  
     199–201  
 Immunization Advisory Council, 203  
*Imperial Animal, The*, 28  
 Implicit knowledge, 117  
 In-vitro fertilization, 184, 186  
 Inclusive fitness theory, 29–30  
 Increasing Complexity Model, 49  
 Indoctrinability, 17  
 Information, 131–132  
 Innate learning networks, 111  
 Innovation, 31  
 Instincts, 117  
 Institutional dynamics, 101–102  
 Instrumental rationality, 199–200  
 Integrated biopolitical concepts, 93  
 Intellectual Property Rights, 210  
 Interdisciplinary approaches, 5–6  
 Intergovernmental Panel on Climate  
   Change (IPCC), 36  
 International Air Transport Associa-  
   tion (IATA), 102

- International Monetary Fund (IMF), 203
- International Political Science Association (IPSA), 15
- Interpersonal behavior, 120
- Interpersonal networks, 131
- Interpersonal relationships, power of, 120–122  
     context matters, 121  
     gossip, 121–122  
     mind-reading, 122  
     people matter, 120–121
- Intranasal administration, 166
- Intranasal OT, 167
- Ipsa-facto*, 184
- Joe Mann Mine (JMM), 152
- Judicial activity, 132
- Justice, 80
- Justice and Development Party (AKP), 213
- Kin-selection, 51–52
- “Know-how” process, 199, 206
- Knowledge production, 205–206
- Language-based conspiracy scenario, 60–61
- Lawmakers  
     in France, 188  
     in United States, 187–188
- Leadership, 32
- Learning, 112–114
- Legal frameworks governing human reproduction, 188
- Legal philosophy, 81
- Liberalism, 96, 103–104
- Long Term Strategy, 213–214
- Marxism, 72–73
- Massachusetts educational scores (MCAS), 141–142  
     multiple regression predicting MCAS education scores, 147  
     variables associated with MCAS Scores, 145–146
- “Measurable health effects”, 144–148
- Medical ethics, 68, 75–78
- Medical tourism, 186–187
- Medicalized society, 96
- Medically assisted reproduction, 185–188
- Medications, 137–138
- Meta-model, 115
- Metaphysics*, 30
- Midwest Journal of Political Science*, 1–2
- Migration, 214
- Mind-reading, 122
- Modern medicine, 76
- “Modern” human societies, 33–34
- Molecular genetics, 18, 203
- Moral animals, 54–58
- Multidimensional framework, 5
- Multidimensional understanding of human nature, 68  
     based on biology, 68–70  
     cosmic perspective, 71–72
- Declaration of Independence, 78–79
- four-part framework of analysis, 71
- H. L. A. Hart, 82
- John Austin, 82
- John Finnis, 83
- Judge Richard Posner And The Holmes Lectures of 1997, 84–85
- legal philosophy, 81
- Lon Fuller, 82–83
- medical ethics, 75–78
- perspectives in neuroscience, 72–75
- Ronald Dworkin, 83–84
- United States Constitutional Democracy, 78
- US Constitution, 79–81
- Multiple regression, 143–144  
     analysis of violent crime rates in US, 149

- predicting MCAS education scores, 147
- Multiple toxicants at sites of abandoned mines, 150–157
- Multivariate analyses, 140
- Myxococcus xanthus*, 33
- National Consultative Ethics Committee for Health and Life Sciences, 189
- National foreign policies, 92
- National Health Service Policy, 203
- Nationaler Ethikrat* (NER), 193
- “Nationalizing Mass Immunization”, 201–202
- Nature, 14–15, 73
- Neo-Darwinism, 10–11, 14–15, 17
- Neo-liberalization, 203
- Neo-neocortex, 68
- Neoliberal governmentality, 7, 209, 213
  - background, 198–199
  - findings, 206–209
  - from governmentalization of state toward neoliberal governmentality, 201–203
  - governmentalization of the state, 206–209
  - of immunization, 198, 213–214
  - immunization as technology of governmentality, 199–201
  - operating “governmentality” in public policy analysis, 204–206
- Neoliberal policies, 203
- “Neoliberal” process, 198
- Neoliberalism, 204
- Neoliberalization, 197–198
- Neuropolitics, 19
- Neuroscience, 72–75
- Neurotoxicants, 137–140
- Neurotoxicology, 140, 157, 159
- Neurotransmitters, 137–138
- New biopolitical inequalities, 98–99
- New reproductive and genetic technologies (NRGTs), 186
- 9/11 terrorist attack, 93–94
- Nomoi*, 54, 56–57
- Norepinephrine, 137–138
- Novices, 114–115
- “Nuclear trap”, 77
- Nurture, 73
- Obligate collaborative foraging, 52
- Organic paradigm, 69
- Organization of Economic Cooperation and Development (OECD), 197–198
- Organizational aspects of biopolitics, 15–17
- Overarching theory, 10
- Oviedo Convention, 186–187
- Oxytocin (OT), 6, 164–165
  - biology and psychiatry, 168–169
  - in different disciplines, 167–170
  - economics and psychology, 169–170
  - endogenous, 165–166
  - exogenous, 166–167
  - other-regarding policies, 171–172
  - Partisan behavior, 172–174
  - in political science, 171–174
  - political science studies, 163–164
- Pair-bonding, 49
- Paradigm, 10
- Partisan behavior, 172–174
- People-driven process, 109
- Policy, 204
  - analysts, 131
  - targets, 109, 130
- Policy-centered approach, 204
- Policymakers, 109, 129–130
- Political animals, 48, 51, 54
- Political attitudes and behaviors, 163–164
- Political community, 48
- Political evolution, 34
- Political science, 10, 48
  - oxytocin in, 171–174
- Political subjectivity, 93
- Politics*, 48

- Politics, 172
  - defining, 27–29
  - emergence of “leadership”, 32
  - evolution of complex societies, 33–34
  - explaining political evolution, 31–32
  - future for hope, 38–40
  - future of politics, 36–38
  - implications for, 131–132
  - role of information, 131–132
  - structure of institutions, 132
  - synergism hypothesis, 29–31
  - synergism hypothesis revisited, 35–36
  - synergy goes to war, 32–33
- Politics and the Life Sciences (PLS)*, 12, 16
- Population pressure theory, 33–34
- Post-liberalism, 103–104
- Post-structural conceptualization of governmentality, 204
- post-World War II, 10
- Poststructural policy analysis, 204
- Pre-departure testing, 102
- Pre-implantation genetic diagnosis (PGD), 186
- Predatory army ants (*Eciton burchelli*), 33
- Prejudice, 125–126
- Preventive medicine, 200
- Primate social complexity, 49
- Primate social structures, 58
- Private conversations, 131
- Proactive aggression, 58–59
- Psychiatry, 168–169
- Psychological traits, 54
- Psychology, 169–170
- Psychopharmacology, 1–2, 10
- Psychophysiology, 20
- Public interest, 28
- Public policy, 6, 157, 159, 184, 199
  - operating “governmentality” in public policy analysis, 204–206
- Purposeful social selection, 56–57
- Quantitative analysis, 6
- Quarantine, 200
- Racism, 12
- Radioimmunoassays, 165–166
- Rational governing tools, 200
- Raven, common (*Corvus corax*), 33
- Reactive aggression, 58
- “Realist” model, 28
- Reciprocity, 39, 51–52
- Refik Saydam Hifzissihha* Center, 212
- Regionalism, biopolitical challenges to, 99–100
- Replication, 21
- Reproductive success, 14
- Reproductive technology policy
  - French reproductive technology policy, 189–191
  - German reproductive technology policy, 191–193
- Republicans, 19–20
- Research and Development (R&D), 209
- “Responsibilization”, 96–97
- Reverse dominance hierarchy, 28–29, 32, 55
- Reverse-Jump Model, 50
- Roman Law, 79
- Security studies, 93
- Self-Made Man*, 32
- Self-reflection, 12
- “Self-secured subjects”, 96
- Sensory representations, 113
- Serotonin, 137–138
- Skilled memories, 115
- Small-scale collaborative foraging, 52
- Smallpox Regulation, 201
- “Social conflict”, 34
- Social contract theory, 79
- Social Darwinism, 12, 72–73
- Social justice, 38
- Social-welfare, 172
- Socialization Act, 207, 210

- Socialization of Health Services Act, 212
- Socialization of Health Services Delivery Act, 203
- Sociobiology, 29–30
- Sociobiology psychology, 62
- Sovereignty, 95–100
- Stammzellgesetz* (StZG). *See* Stem Cell Act
- Standard Social Science Model (SSSM), 10, 72–73
- State-level political systems, 34
- Stem Cell Act, 191
- Stereotypes, 125–126
- Substance, 132
- Superorganism, 31
- Surrogate motherhood, 184, 187
- Symbolic representations, 113
- Synergism Hypothesis, 4, 29, 31–33, 35–36
- Synergy, 30, 33
- Technological innovation, 34
- Theories of Human Nature*, 70
- Total Toxic Exposure Index (TTEI), 154–155
- Toxic Release Inventory (TRI), 148
- Toxicogenomics
  - heavy metals and violent crime, 148–149
  - implications of Cree and Mohawk samples, 157
  - lead uptake as factor in poor educational outcomes, 140–148
  - multiple toxicants at sites of abandoned mines, 150–157
  - neurotoxicants and behavior, 137–140
  - neurotoxicology and public policy, 157–159
  - results of preliminary study of Kanasatake Mohawk, 154–157
  - study of Oujé-Bougoumou Cree, 152–154
- Trade-Related Aspects of Intellectual Property Rights agreements (TRIPS agreements), 203
- Trial-and-success process, 35–36
- Triune Brain in Evolution, The*, 73
- Turkish health system reform, 199
- Turkish Pharmaceuticals Agency, 212
- Turkish politics, 197–198
- Twin studies, 19
- Two-part framework of analysis, 71
- Two-way ANOVA, 142–143
- U.N. Global Infrastructure Fund, 39
- Unconscious perception and reaction, 117
- United States Constitutional Democracy, 78
- Universal Declaration on Bioethics and Human Rights, 186–187
- Universal learning mechanisms, 111
- Uruguay Round, 203
- US Constitution, 79–81
- Vaccination, 210–211
- Vaccine
  - diplomacy, 101
  - in Turkey, 201–203
  - vaccine-related policies, 203
- Violent crime, 148–149
- Warfare, 34
- World Health Organization (WHO), 203
- World Trade Organization (WTO), 98, 102
- Yale Review*, 1, 11
- Yin and yang analysis, 71
- Youth-led climate action movement, 40