

# Index

- academic scientists  
 academic-industry research relationships (AIRRs), 298  
 administrative case rounds, 274–77  
 case discussions, 360–61  
 collaborative research, 248–49  
 industry and, 286–89, 315–18  
 integrity in education of, 267–72  
 mentoring, 250–51, 267–72  
 obstacles to collegiality, 263–66  
 pressures, 247–48  
 scholarship issues, 255–61  
 social responsibility, 251–53  
 teaching and learning, 249–50  
 administrative case rounds, 274–77  
*Advisor, Teacher, Role Model, Friend*, 250  
 Agassiz, Louis, 256  
 Agency for International Development (AID), 296  
 Agreement on Investigator Transfer of Research Data, 235  
 Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA), 121  
 Amass, Keith D., 216  
 American Association for Laboratory Animal Science, 187  
 American Association for the Advancement of Science, 317–18  
 American Association of University Professors, 98  
 American Chemical Society, 107  
 American College of Veterinary Anesthesiologists, 187  
 American Dental Association, 98  
 American Genetics Association, 98  
 American Institute of Chemical Engineers, 98  
 American Medical Association, 98  
 American Psychological Association, 107, 129, 137  
 American Tissue Type Culture (ATTC), 227  
 American Veterinary Medical Association (AVMA), 207  
 Anderson, Melissa S., 307  
 Anderson, W. French, 341  
 Angell, Marcia, 107, 161  
 Animal and Plant Health Inspection Service (APHIS), 187  
 Animal Legal Defense Fund, 8  
 Animal Liberation Front (ALF), 186  
*Animal Liberation* (Singer), 8, 186, 199–200  
 animal-to-man communication, 44–45  
 animal use, in research. *See also* euthanasia, animal humane care, 59, 183–91  
 moral legitimacy, 8–9, 192–201  
 pain and distress issues, 203–5  
 patenting of animals, 293–97  
 transgenic animals, 293–97  
 Animal Welfare Act (AWA), 183, 187, 188, 203  
 Animal Welfare Information Center, 213  
 animal welfare movement, 185–86  
 antivivisectionists, 185–86, 195–96. *See also* provivisectionists  
 Appelbaum, Paul S., 139  
 Aquinas, St. Thomas, 184  
 Arendt, Hannah, 256  
 Aron, Raymond, 5  
 Asilomar Conferences, 7–8, 14, 320–26  
 Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International, 203  
 Association of Academic Health Centers, 276  
*Asylums* (Goffman), 63  
 Augustine, St., 184  
 authorship issues. *See under* publication  
 Babbage, Charles, 48  
 Bacquerel, Jean, 46  
 Bailar, John C., III, 25, 68  
 Bain, Fairfield, 215  
 Baker, John R., 36  
 Ballet, Gilbert, 46  
 Baltimore, David, 10, 73, 320  
 Barber, Bernard, 25, 26–27  
 Barber, Theodore X., 47  
 Baumrind, Diana, 170  
 Bayh-Dole Act (1980), 227, 281  
 Beauchamp, T. L., 168  
 Beaver, Bonnie V., 215  
 Beecher, Henry K., 4, 72, 118, 313  
 Bellah, Robert, 263  
 Belmont Report, 58–59, 119–20, 128–38  
 Benedict, Ruth, 256  
 beneficence, 119–20, 131–32  
 Benjamin, Martin, 186  
 Bennett, B. Taylor, 215  
 Benson, Paul, 139  
 Bentham, Jeremy, 185

- Berens, Michael, 242  
 Berg, Paul, 7, 10, 314, 320  
 Berger, Mitchel S., 242  
 Beringer, Johann Bartholomew Adam, 42, 47–48  
 Berlin, Sir Isaiah, 168  
 Bernard, Claude, 98, 99, 117, 131, 185  
 Bethe, Hans, 313  
*Betrayers of the Truth* (Broad and Wade), 24  
 Biogen Company, 9  
*The Biological Time Bomb* (Taylor), 6  
 biomedical research (study), 327–39  
 Blacks. *See* ethnic and racial issues  
 blanket consent, 160  
 Blondlot, René, 45, 46  
 Blumenthal, David, 286–87, 298, 316  
 Blyth, Edward, 34–35  
 Boas, Franz, 256  
 Bond, William Cranch, 256  
 Bowen, William, 256  
 Boyer, Ernest L., 248, 255  
 Bradley, James, 53  
 Brady, Joseph V., 138  
 Brain Tumor Research Center, 222, 236  
 Brenner, Sydney, 320  
 Broad, William J., 42, 91, 106, 221  
 Broca, André, 46  
 Bronowski, J., 32–33  
 Brooklyn Jewish Chronic Disease Hospital, 118  
 Brown, George, Jr., 287, 318  
 Bruno, Giordano, 35, 36  
 Bulger, Roger James, 263  
 Bulger, Ruth Ellen, 57, 59, 89, 221, 247, 249, 263, 266, 281, 313, 316  
 Burch, R. L., 59, 186  
 Bursztajn, Harold, 145  
 Bush, George W., 13  
 Bush, Vannevar, 264, 281, 314, 315
- Cabot, Richard C., 275  
 Campbell, Eric G., 286, 298  
 Cannon, Walter, 275  
 Caplan, Arthur L., 184, 186, 190, 192  
 Capron, Alexander M., 158, 164  
 Carmichael, Emmett B., 92, 97, 313  
 case discussions  
   cases relevant to text, 353–63  
   introduction, 16, 349–52  
 case rounds, 274–77  
 Causino, Nancyanne, 307  
 Centers for Disease Control and Prevention (CDC), 161, 188  
 Centocor, Inc., 74–75  
*Chakrabarty* case, 291–92  
 Charrow, R. P., 79  
*Chemical Abstracts*, 98  
 Chomsky, Noam, 256  
 Clark, Le Gros, 50  
 cloning, of human beings, 124. *See also* genetics  
 Coalition to End Animal Suffering in Experiments, 8  
 Cogen, Philip H., 242  
 Collaborative Electronic Notebook Systems  
   Association, 223–24
- Collingwood, R. G., 82  
 Colloquium on Science and Technology (AAAS), 318  
 Commission on Research Integrity (1995), 12  
 Comroe, Julius H., Jr., 314, 315, 327  
 conflicts of commitment, 284  
 conflicts of interest, 284–89  
 confounding, 175–77  
 Cook-Deegan, R. M., 9  
 Cooke, Robert E., 138  
 Cooper, Richard S., 157, 158, 175  
 copyright, 282  
 Cork, Linda C., 216  
 Corporate Gifts Supporting Life Sciences Research  
   (study), 298–307  
*Cosmos* (Humboldt), 36  
 Council for International Organizations of Medical  
   Sciences (CIOMS), 155, 159, 160–61, 188  
 Council of Biology Editors, 107  
 Covi, Lino, 143  
 Crick, Francis H. C., 6  
 crimes against humanity, 126. *See also* misconduct  
 Curie, Pierre, 46  
 Curran, William, 4
- Darsee, John, 8, 10, 72  
 Darwin, Charles, 26, 34–35, 36, 185  
 data  
   access and transfer, 233–35  
   case discussions, 359–60  
   computerized, 223–24, 241  
   databooks, standards for, 238–43  
   data management policies, 226, 236–43  
   data sharing, 226–27, 229–30  
   definitions, 231–32  
   experimental data notebooks, 223, 239–42  
   falsification, 10  
   methodology notebooks, 222, 239  
   objectivity in collection, 221–22  
   ownership, 224–25, 237, 272  
   principal investigator (PI), 222, 236–37, 253–54  
   raw data, 231–32, 240–41  
   retention, 225–26, 231–33, 237–38
- Davis, Bernard, 11  
 Dawson, Charles, 49–50  
 Declaration of Helsinki, 117–18, 129, 137, 148–51, 161, 185  
 Deen, Dennis F., 242  
 Defense Authorization Act for Fiscal Year 1994  
   (PL 103–160), 121  
 DeLise, Charles, 9  
 Descartes, René, 35, 184  
*The Descent of Man* (Darwin), 185  
*Diamond v. Chakrabarty*, 291–92  
 diethylstilbestrol (DES), 123  
 DNA research, 7–8  
 double-blind procedures, 141, 144  
 Dripps, Robert D., 314, 315, 327  
 Durso, T. W., 288
- Eastwood, Susan, 242  
 Eckhart, Georg von, 48  
 E.I. du Pont de Nemours & Co., 293

- Einstein, Albert, 39  
 Ellul, Jacques, 5  
 embryonic stem cells, 12–14  
 Engelhardt, H. Tristram, 156, 264  
 Engineers' Council for Professional Development, 98  
 Environmental Protection Agency (EPA), 224  
 epidemiological research  
   case discussions, 357–58  
   ethical issues in, 155–62  
   protection of subjects, 164–73  
*Escherichia coli*, 7  
 ethical codes, 97–99, 353  
*Ethical Guidelines for Statistical Practice* (American Statistical Association), 25–26  
 ethics movement, history of  
   1945–1966, 3–5  
   1966–1974, 5–8  
   1975–2000, 8–13  
   2000–?, 14–16  
   clinical medicine vs. biohealth sciences, 14–16  
   roots of ethical values, 21–28, 29–31  
 ethnic and racial issues, 120, 121, 156, 157–58, 175–79  
 eugenics, 6, 345  
 euthanasia, animal. *See also* animal use, in research  
   animal behavioral considerations, 211–12  
   general considerations, 210–11  
   human behavioral considerations, 212–13  
   introduction, 207–10  
   overview, 190  
 exempt review, 122  
 expectancy bias, 24–25, 42–44  
 expedited review, 122–23  
 experimental data notebooks, 223  
 experimentation, 22–23
- fabrication of data, 90  
 Faden, R. R., 168  
 falsification of data, 90. *See also* misconduct  
 Feder, Ned, 10, 72  
 Federal Acquisition Regulations (FAR), 224  
 Fike, John R., 242  
 Fishbein, Estelle, 225  
 Flamsteed, John, 42, 53  
 Flanagan, A., 93  
 Fletcher, John, 341  
 Fletcher, Joseph, 7  
 Food, Drug, and Cosmetic Act, 4  
 Food and Drug Administration (FDA)  
   on animal use, 188  
   Centocor, Inc. and, 74–75  
   on data retention, 225  
   on financial disclosures, 285  
   on gene transfer, 341  
   primary (raw) data, 224  
   on stem cell research, 13  
 Food and Drug Administration Regulations  
   (21 CFR 50, 56), 123–24  
 for-profit relationships, 288  
 45 CFR 46, 120, 122–23, 164  
 Foundation for Biomedical Research (FBR), 183  
 Francis-Floyd, Ruth, 216
- Frankel, M. S., 92  
 Franklin, John Hope, 256  
 Frederickson, Donald, 7  
 Freeman, Vincent L., 157, 158, 175  
 Freund, Paul, 168  
 Fried, Charles, 139, 140, 169  
 Friedman, Paul J., 267  
 full review, 123
- Galileo, 35, 36  
 Gallo, Robert, 73–75, 76  
 Gardner, Allen, 44  
 Gardner, Beatrice, 44  
 Gardner, Martin, 52  
 Geertz, Clifford, 258  
 Geller, Uri, 51–52  
 genetics  
   cloning, of human beings, 124  
   creation of species for research, 190  
   epidemiologic research, 160  
   historical developments, 6–8, 9–10  
   Human Genome Project (HGP), 9–10, 299  
   and human malleability, 341–45  
   patenting life, 291–97  
   race-based genetic theories, 175–79  
   recombinant DNA research, 7–8, 291–97, 320–26  
   stem cell research, 12–14, 124  
 ghost authorship, 93  
 Gibbon, John, 329  
 gift authorship, 93  
 Gilbert, Walter, 9  
 Gilligan, Carol, 264  
 Gilman, Daniel Coit, 255  
 Glass, Bentley, 23, 29  
 Goffman, Erving, 63  
 Granstrom, David, 213  
 Gray, Bradford, 143  
 Greer, Leah, 213  
*Guide for Laboratory Animal Facilities and Care* (NIH), 187  
*Guide for the Care and Use of Laboratory Animals*, 188
- Habits of the Heart* (Bellah et al.), 263  
 Handlin, Oscar, 260  
 Harper, William Rainey, 259  
 Harvard Program on Technology and Society, 6  
 Health Research Extension Act (1985), 11, 187, 203  
 Healy, Bernadine, 73–74  
 Height, Dorothy I., 138  
 Heitman, Elizabeth, 21, 155, 183, 349  
 Helsinki Declaration. *See* Declaration of Helsinki  
 Henry M. Jackson Foundation for the Advancement of Military Medicine, 231, 235  
 Herschel, John, 52  
 Hetherington, Norris, 47, 53  
 Hill, A. V., 103  
 Hinton, Martin A. C., 50  
 Hippocrates, 117  
 Hispanics. *See* ethnic and racial issues  
 Hitler, Adolf, 36  
 HIV/AIDS, 156–57, 160–61

- honorary authorship, 93  
*Honor in Science* (Sigma Xi), 91  
 Hooke, Robert, 42, 53  
 Horvath, Julie, 213  
 Hoyle, Sir Fred, 27  
 Hubble, Edwin, 47  
 Human Genome Project (HGP), 9–10, 299. *See also*  
   genetics  
 Humboldt, Alexander von, 36  
 Hume, David, 184–85  
 Huth, Edward J., 11, 91, 105  
 Hutson, W. R., 79  
 Huxley, Thomas Henry, 36, 38
- Imanishi-Kari, Thereza, 10, 73  
*In a Different Voice* (Gilligan), 264  
 industry, and science  
   case discussions, 361–62  
   conflicts, 281–89  
   Corporate Gifts Supporting Life Sciences Research  
   (study), 298–307  
   patenting life, 290–97  
   technology transfer, 281–89, 315–16  
 informed consent, 119, 133–35, 139–46, 158–59,  
 167–73  
 Ingelfinger rule, 94  
 innovation, and integrity, 71–76  
 insider trading, 288  
 Institute for Parapsychology, 51  
 Institute of Medicine Report on Women and Health  
 Research, 121  
 Institutional Animal Care and Use Committees  
 (IACUCs), 187, 203–4, 203–5  
 Institutional Review Boards (IRBs), 5, 14, 118,  
 122–23, 158  
 integrity in research, 21–28, 32–35. *See also*  
   misconduct  
 intellectual freedom, 35–37  
 intellectual property, 282–83, 290  
 International Committee of Medical Journal Editors  
 (ICMJE), 90, 92, 93, 107  
 International Council of Scientific Unions, 37  
 international research, 160–61, 188  
 International Society for Animal Rights, 8  
*An Introduction to Experimental Medicine* (Bernard),  
 185  
 Irby, D. M., 249
- Jasanoff, Sheila, 61, 71  
 Javits, Jacob, 4  
 Jencks, Christopher, 259  
 Jewish Chronic Disease Hospital, 4  
 Johnson, Richard, 216  
 Jonas, Hans, 165  
 Jones, K. L., 110  
 Jonsen, Albert R., 138  
*Journal of the American Medical Association*  
 (JAMA), 94, 109
- Kant, Immanuel, 185  
 Kassirer, J. P., 81, 83  
 Katz, Jay, 145, 168
- Kennedy, Donald, 229  
 Khan, S. D., 121  
 King, Patricia A., 138, 157  
 Klebanoff, Mark, 109  
 Koestler, Arthur, 7  
 Kohn, Barbara, 216  
 Krimsky, S., 285  
 Krulwich, Terry Ann, 267  
 Kuhn, Thomas, 24, 61
- Laboratory Animal Welfare Act (1966), 186  
 Langdell, C. C., 275  
 Leake, C. D., 97  
 Leary, Steven, 215  
 least publishable unit (LPU), 91, 106  
 Lebacqz, Karen, 138  
 Leibniz, Gottfried, 35  
 Leigh, Vincenta, 143  
 Levy, Walter J., 51  
 Lidz, Charles W., 139  
 Lifton, Robert J., 63  
 Locke, John, 184  
*The Lonely Crowd* (Riesman), 263  
 Louis, Karen Seashore, 298  
 Louisell, David W., 138
- Maanen, Adriaan van, 47  
 Malthus, Thomas, 34–35  
 May, K. O., 105  
 McClintock, Barbara, 256  
 McKiernan, Brendan, 215  
 “meat extenders,” 91, 106  
 Mendel, Gregor, 27  
 Merton, Robert, 23  
 methodology notebooks, 222  
 Miller, Richard L., 255  
 Mills, C. A., 98  
 Mills, James L., 109  
 minorities. *See* ethnic and racial issues  
 misconduct  
   authorship controversies, 10–11  
   case discussions, 353–54  
   crimes against humanity, 126  
   definitions, 62, 78–79  
   falsification of data, 90  
   guidelines, 11  
   pathogenesis of fraud, 64–67  
   plagiarism, 34, 62, 90, 113  
   “pre-med syndrome,” 64–65  
   prevention, 78–84  
   statistics, deception with, 68–70  
 Mishkin, Barbara, 226  
 moral worth, and sentience, 192–201  
 Multiple Risk Factor Intervention Trials of 1977  
 (MRFIT), 121  
 Mumford, Lewis, 5  
 Mumford, M. D., 252
- National Academy of Sciences, 12, 229  
 National Bioethics Advisory Board, 63  
 National Bioethics Advisory Commission (NBAC),  
 124

- National Center for Human Genome Research, 10, 299  
National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research, 58–59, 119, 128, 138, 313  
National Institutes of Health Clinical Center, 118  
*National Institutes of Health Guide*, 224  
National Institutes of Health Intramural Guidelines for Scientists, 252  
National Institutes of Health (NIH)  
  on animal use, 187, 188, 296  
  on data sharing, 227  
  early research funding, 4–5  
  on gene transfer, 341  
  on HIV studies, 161  
  Human Genome Project, 9–10  
  on human research subjects, 123, 157  
  Office of Scientific Integrity (OSI), 11, 73–74, 75  
  on stem cell research, 13  
  on women and minorities in research, 120–21, 157  
National Research Act (1974), 118–19, 128, 313  
National Research Council, 229, 256–57  
National Research Service Award, 11–12  
National Research Service Award Institutional Training Grants, 251  
National Science and Technology Council, 317  
National Science Foundation (NSF), 73, 78, 281, 285, 296  
Nelkin, Dorothy, 8  
Neuhauser, Duncan, 229  
*New England Journal of Medicine*, 94  
NIH Guide for Contracts and Grants, 11–12  
NIH Revitalization Act (1993), 121  
notebooks. *See under* data  
N-rays controversy, 42, 45–46  
N2–TIL Human Gene Transfer Clinical Protocol, 342  
Nuremberg Code, 3–5, 117, 126–27, 129, 137, 185  
Nye, Mary Jo, 46
- Office for Protection from Research Risks, 203  
Office of Human Research Protections, 122  
Office of Human Subjects Research, 123  
Office of Laboratory Animal Welfare (OLAW), 203  
Office of Management and Budget (OMB), 227, 252  
Office of Protections from Research Risks, 122  
Office of Research Integrity (ORI), 12, 21, 74, 83, 113, 224, 251  
Office of Research on Women's Health, 121  
Office of Scientific Integrity (OSI), 11, 73  
Office of Scientific Integrity Review, 11  
Office of Technology Assessment (U.S. Congress), 183, 290  
Oppenheimer, J. Robert, 6, 261  
*Organic Remains of a Former World* (Parkinson), 48  
Ortho Pharmaceutical Corp., 109  
O'Toole, Margot, 10
- Palmer, Parker, 260  
panspermia, 27  
Parapsychological Association, 51  
parapsychology, 51–52  
Park, Lee, 143
- Parkinson, James, 48  
Pascoe, Peter, 215  
Pasteur, Louis, 27, 38, 48, 57, 314–15, 328  
*Pasteur's Quadrant: Basic Science and Technological Development* (Stokes), 314–15  
Patent and Trademark Amendments (1980), 292  
patents, 281, 282–83, 290–97  
Pauling, Linus, 27  
peer review, 94–95  
Pellegrino, E. D., 81, 82  
People for the Ethical Treatment of Animals (PETA), 186  
Petersdorf, Robert G., 64  
*Peterson's Guide to Graduate Programs in the Biological and Agricultural Sciences*, 298  
Pfungst, Oskar, 44  
Physicians' Health Study (1989), 121  
Picard, Jean, 42  
Pigman, Ward, 92, 97, 313  
Piltown man, 42, 49–50  
placebos, 141, 144, 161  
plagiarism, 34, 62, 90, 113. *See also* misconduct  
Poincaré, Henri, 46  
Polanyi, Michael, 97, 257  
*Policy on Humane Care and Use of Laboratory Animals* (USPHS), 203  
political views, in science, 26  
Pollack, Robert, 7  
Popovic, Mikulas, 73–75  
"pre-med syndrome," 64–65. *See also* misconduct  
*Principles of Medical Ethics* (AMA), 98, 101  
privacy, protecting, 169–73  
Project Hindsight (study), 327–28  
provivisectionists, 194. *See also* antivivisectionists  
publication  
  authorship issues, 10–11, 91–94  
  authors' obligations, 99–101  
  case discussions, 355–56  
  introduction, 89–91  
  irresponsible authorship, 105, 107  
  media issues, 94  
  multiple authorship, 101–4  
  reporting provocative results, 109–12  
  review of manuscripts, 94–95  
  wasteful publication, 106–7  
Public Health Service Grants Policy Statement, 226–27  
"Pugwash" Conferences on Science and World Affairs, 39  
purposiveness, and moral worth, 198–201  
Puthoff, Harold, 51
- race. *See* ethnic and racial issues  
Randi, James, 52  
randomization, 140–46  
Raub, William, 121  
Rauschnig, Hermann, 36  
recombinant DNA research, 7–8, 291–97, 320–26.  
  *See also* genetics  
Redfield, Robert, 74–75  
Reed, Willie, 215

- referee system, 34–35  
*Reflections on the Decline of Science in England* (Babbage), 48  
 Reiser, Stanley Joel, 3, 250, 252, 274, 316  
 religious views, in science, 26  
 research  
   animal use, 8–9, 59, 358–59  
   human subjects, 58–59, 117–24, 356–57  
   responsible conduct, 57–63  
 Rhine, J. B., 51  
 Rhoads, George, 109  
 Riesman, David, 259, 263  
 Robertson, John, 145  
 Roblin, Richard O., III, 320  
 Roderick, J. Ignatz, 48  
 Roentgen, Wilhelm, 328  
 Rosegay, Harold, 242  
 Rosenberg, Steven, 342  
 Rosenthal, Robert, 43  
 Rostand, Jean, 46  
 Roth, Loren H., 139  
 Rotherberg, L. S., 285  
 Rothman, K. J., 164  
 Roy, Laurence, 213  
 Royal College of Physicians, 82  
 Russell, Bertrand, 39  
 Russell, W. M. S., 59, 186  
 Ryan, Kenneth John, 138
- “salami science,” 91, 106  
 Scheuchzer, Johann Jacob, 47  
 Schmidt, Robert H., 216  
 scholarship of application, 259–60  
 scholarship of discovery, 256–57  
 scholarship of integration, 257–59  
 scholarship of teaching, 260–61  
 Schultz, Roy, 215  
*Science: The Endless Frontier* (Bush), 314  
*Science and the Planned State* (Baker), 36  
 Scientific Basis for the Support of Biomedical Science (study), 327–39  
 scientific method, 22–23  
 Sebeok, Thomas, 45  
 Sekas, G., 79  
 Seldin, Donald W., 138  
 self-deception, in researchers, 23–27, 42–53  
 sentience, and moral worth, 192–201  
 Shapiro, Harold, 63  
 Shapiro, M. F., 79  
*Sharing Research Data*, 229–30  
 Shelby, Richard, 227  
 Shils, E., 248  
 Shroud of Turin Research Project, 52  
 Shull, Elizabeth, 216  
 Silliman, Benjamin, 256  
 Singer, Maxine F., 7, 320  
 Singer, Peter, 8, 186, 199–200  
 Sinsheimer, Robert, 9  
 Smith, David, 9  
 Smith Woodward, Arthur, 49–50  
*Society, the Endless Frontier* (European Commission), 318
- society, the scientist in  
   biomedical research (study), 327–39  
   case discussions, 362–63  
   genetic engineering, 341–45  
   interactions, 313–15  
   scientists’ responsibilities, 5–8, 39–40, 315–18  
 Society for the Prevention of Cruelty to Animals, 185  
*Society’s Choices* (Institute of Medicine), 317  
 socioeconomic status (SES), 175–77  
 Söll, Dieter, 7  
 Soloff, Paul, 139  
 species barriers, 294–95  
 speciesism, 186  
 statistics, deception with, 68–70. *See also* misconduct  
 Stellar, Eliot, 138  
 stem cell research, 12–14, 124. *See also* genetics  
 Stevens, Anne R., 234  
 Stevenson-Wylder Technology Innovation Act (1980), 281  
 Stewart, W. W., 10, 72  
 Stokes, Donald, 314–15  
*The Structure of Scientific Revolutions* (Kuhn), 24, 61  
 subjectivity, of science, 31–32  
 Swazey, J. P., 79  
 Szent-Györgyi, Albert, 36  
 Szilard, Leo, 6
- Tancredi, Laurence, 173  
 Targ, Russell, 51  
 Taylor, Gordon Rattay, 6  
 Taylor, John, 52  
 technology transfer, 281–89, 315–16. *See also* industry, and science  
 Technology Transfer Act (1986), 281, 292  
 Teich, A. H., 92  
 Terrace, Herbert, 44, 45  
 thalidomide, 123  
 “therapeutic misconception,” 139–46  
 Thomas, Lewis, 257  
 Thornton, Gus W., 216  
 Tobin, J. N., 121  
 trademarks, 282  
 transgenic animals, 190, 291–97  
 Turtle, Robert H., 138  
 Tuskegee Syphilis Study, 118, 132, 156, 157, 161  
 Tyndall, John, 38
- Umiker-Sebeok, Jean, 45  
 Underwood, Wendy, 216  
 “Uniform Requirements for Manuscripts Submitted to Biomedical Journals,” 90–91  
 U.S. Congress, Office of Technology Assessment, 183, 290  
 U.S. Department of Agriculture (USDA), 183, 187, 188  
   Agricultural Research Service, 296  
   Animal Welfare Act (AWA), 203–4  
   Cooperative Research Service, 296  
 U.S. Department of Energy, 9  
 U.S. Department of Health, Education, and Welfare (DHEW), 120, 128, 129, 137, 281

Cambridge University Press

978-0-521-00886-0 - The Ethical Dimensions of the Biological and Health Sciences, Second Edition

Ruth Ellen Bulger, Elizabeth Heitman and Stanley Joel Reiser

Index

[More information](#)*Index*

371

- 
- U.S. Department of Health and Human Services (DHHS)  
 on animal use, 187–88  
 on misconduct, 74, 75, 78  
 Office of Scientific Integrity Review, 11  
 on technology transfer, 281  
 whistle blower protection, 62
- U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training*, 203
- U.S. Public Health Service (USPHS)  
 on animal use, 188, 203  
 on financial conflicts of interest, 285  
 on misconduct, 73  
 Office of Human Subjects Research, 123  
 on plagiarism, 113  
 research integrity course, 8, 12  
 Task Force on Women's Health, 121  
 Tuskegee Syphilis Study, 118, 156  
 whistle blower protection, 63
- U.S. Securities and Exchange Commission (SEC), 288
- Van Doren, Mark, 257  
 Von Osten, Wilhelm, 44
- Wade, Nicholas, 42, 221  
 Wallace, Alfred Russel, 34  
 war crimes, 126. *See also* misconduct  
 “wash-out period,” 140  
 Watson, James D., 6, 10, 256  
 Weed, Douglas L., 78  
 Weissman, Joel S., 307  
 West, Kathleen M., 173  
 Wetherill, Diane, 109  
 Whitehead Institute, 73  
 Wilcox, L. J., 92  
 Willowbrook Home, 118  
 Wilson, Charles B., 242  
 Winslade, William, 139  
 Wise, L. E., 100  
 women's issues, 120–21, 157  
 Wood, R. W., 45  
 World Medical Association, 148, 161  
 Wright, James Homer, 275
- Yalow, Rosalyn, 111
- Zyporin, Terra, 307