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I. OVERVIEW

A. The State of the Center: 2001-2002

Established in 1989 by Thomas A. Raffin, M.D. and Ernlé W.D. Young, Ph.D., the Stanford Center for Biomedical Ethics (SCBE) grew from the shared interests of medical school and campus faculty concerned with ethical issues in the biomedical sciences and clinical medicine. They foresaw the ethical challenges that would be faced by the medical profession and the threats that can undermine the trust of patients and research subjects.

Challenges in biomedical ethics arise from complex, interdependent factors in society: the constant development and deployment of new technologies in biology and medicine; the increased interactions and tensions between medicine and business; the changing economics of health care in the United States and the economic pressures exerted on health care providers and institutions; the way the law in its many guises—case law, regulation, and legislation—is evolving; the advent of new diseases such as HIV/AIDS and the potential resurgence of old diseases like smallpox in the hands of bio-terrorists; and the major demographic shifts occurring in our society, particularly in terms of the aging of America and our increased ethnic, cultural, and religious diversity.

The Stanford Center for Biomedical Ethics continues to play a unique role among ethics centers nationally, because it engages not only in traditional philosophical inquiry, but leads the nation in ground-breaking interdisciplinary research on moral questions arising from the complex relationships among medicine, science and society. Our research draws on and extends the scientific, clinical and educational strengths of Stanford University, and plays a key role in shaping national health policy. We are committed to exploring and promoting trustworthy and compassionate approaches to the practice of medicine in an environment of rapid socioeconomic and technological change.

As we complete our 13th year, the Center is positioned as a national leader in critical analysis of emerging trends in biomedicine and their impact on people and society, in the education of medical professionals, and in informed policy-making. Below are recent accomplishments of the past two years.

B. Highlights: Recent Contributions and Accomplishments

• Center researchers formed important new collaborations as co-investigators on grants with researchers at the School of Medicine and other schools on campus to jointly tackle key ethical and policy questions in the areas of stem cells, bioinformatics, tissue engineering and transplantation, genetic testing and medical imaging.

• Center researchers continued to fully support themselves as principal investigators of over 20 active grants, and applied for 10 new grants. Extramural funding provided roughly 70% of total funding. Of the remaining 30%, 20% came from gifts and 10% from University
support. Recent awards include grants from the NIH for research on the genetics of nicotine addiction, for the development of educational curricula for genetics researchers, development of a conference to define the new field of neuroethics, research on promoting effective communication and decision-making for diverse populations, and making educational documentary films on cultural issues in medicine.

- Center researchers participated in teaching over 30 courses on the Stanford campus, in the schools of Medicine, Business, Engineering and Humanities and Sciences, as well as in the Stanford Hospitals and Clinics. The Center contributed significantly to the integration of ethics components in a growing number of courses in the education of medical and doctoral students. These courses covered a broad range of topics, including genetics, medical innovation, neuroethics, epidemiology, bioinformatics, pharmaceutical development, cultural diversity in medicine, and clinical ethics.

- Center researchers provided service and advice to national policy-makers, including the Congressional Black Caucus on end-of-life care, the Lasker Foundation on biomedical and research ethics, the U.S. House of Representatives Science Committee on gene patenting, and the U. S. Dept. of Health and Human Services Secretary’s Advisory Committee on Genetic Testing.

- The Center saw the retirement of Dr. Ernlé Young, a founder and longtime leader of the clinical bioethics program. The Center has also nearly completed recruitment of a replacement to lead and expand the hospital's clinical ethics committee, ethics rounds in the intensive care units and consultation to individual patients, families and health care providers.

II. CENTER STAFF

A. Center Leadership

Mildred Cho, Ph.D., is Acting Co-Director and a Senior Research Scholar at the Center. Her major areas of interest are the ethical and social issues raised by new technologies such as genetic testing, gene therapy, pharmacogenetics, and gene patents. She also studies how academic-industry ties affect the conduct of biomedical research.

Thomas A. Raffin, M.D., is Co-Director and the Colleen and Robert Haas Professor of Medicine and Bioethics and Chief of the Division of Pulmonary and Critical Care Medicine. In addition to biomedical ethics - withholding and withdrawing life support, medical decision-making in the context of managed care and HMOs, ethics of neurosciences, and ethical issues in human genetics - Dr. Raffin’s key areas of academic interest include biology of acute lung injury, pulmonary fibrosis, and lymphangioleiomyomatosis.

Henry Greely, J.D., Chair of SCBE’s Steering Committee, is Professor of Law and Professor, by courtesy, of Genetics at Stanford University. Specializing in health law and policy, Greely has
written on cloning, the implications of genetics for the health care system, health care insurance and financing and the stem cell debate.

B. Principal Researchers

LaVera Crawley, M.D. is a Lecturer in Medicine with research interests in health disparities in palliative care for African-Americans, as well as race/ethnicity and trust in research and health care. In addition, Dr. Crawley also serves as Executive Director of the “Initiative to Improve Palliative and End-of-Life Care in the African American Community,” a national interdisciplinary working group of African American scholars and professionals.

Margaret Eaton, J.D., Pharm.D., Senior Research Scholar, focuses on the ethical issues in the research, development and marketing of biomedical and genomics products. She is currently Chair of the hospital Ethics Committee and teaches a medical law course in the medical school. Dr. Eaton recently developed a business school course and edited a book on the ethics of the pharmaceutical and biotech industries.

Linda F. Hogle, Ph.D., M.B.A., Senior Research Scholar, studies social and organizational issues in biomedical science, technology and clinical practice. Her focus areas include transplant medicine, tissue engineering, medical device development and ethical issues in market-based health care systems.

Judy Illes, Ph.D. is a Senior Research Scholar with a joint appointment in the Department of Medicine and the Department of Radiology. Dr. Illes’ research program is devoted to biomedical ethics in the neurosciences and medical imaging, and to charting the new field of “neuroethics.” Dr. Illes recently played a major role in organizing an international conference co-hosted by Stanford in neuroethics.

Barbara A. Koenig, Ph.D., an anthropologist who studies contemporary biomedicine, is Associate Professor of Medicine. Dr. Koenig is one of a small number of anthropologists whose research contributes to the interdisciplinary field of bioethics. Her work has demonstrated the relevance of empirical investigation to moral inquiry, with a focus on end-of-life care, cultural diversity, technological innovation and genomics.

Maren Grainger-Monsen, M.D. is the SCBE Film-maker in residence. Her work is devoted to films on biomedical ethics and culture, faith, and spirituality at the end of life. Her clinical training includes a residency in Emergency Medicine and a fellowship in Palliative Care. Dr. Grainger-Monsen created the award-winning film *The Vanishing Line*. Currently, she is completing a major project on the impact of multiculturalism in medicine.

Sara L. Tobin, Ph.D., M.S.W., Senior Research Scholar in the Program for Genomics, Ethics, and Society, recently completed two nationally acclaimed educational multimedia CD-ROM discs about the genetic revolution in medical care. Her work was sparked by the rapid advances in our knowledge about the human genome.
C. Postdoctoral Fellows

**Sandra Lee, Ph.D.**, Postdoctoral Fellow in the Program for Genomics, Ethics, and Society, is a recipient of a National Research Service Award from the National Human Genome Research Institute. Her research is focused on the ethical and social implications of race in human genetic variation research. Dr. Lee is also a Lecturer in the Department of Cultural and Social Anthropology.

D. Associated Faculty

**Mary Rorty, Ph.D.**, Clinical Associate Professor, has been associated with the Centers for Biomedical Ethics at UVA and at Stanford, and sits on the Lucile Packard Children's Hospital Ethics Committee. She has written on theoretical and practical issues in clinical ethics and bioethics, and is one of several co-authors of the first book ever published on organization ethics in hospitals.

E. Emeritus Faculty

**Ernlé W.D. Young, Ph.D.** is Emeritus Co-Director and Co-Founder of the Center, and Professor of Medicine (Biomedical Ethics). He has been a force in biomedical ethics, chairing the ethics committee at Stanford University Hospital and serving many patients and families confronting moral quandaries.

III. RESEARCH

The Center’s three main areas of research are in clinical practice, scientific innovation and health care delivery. The Center currently has grants from both federal and non-federal sources, including National Institutes of Health, Department of Energy, National Science Foundation, The Greenwall Foundation and The Dana Foundation, among others. In addition, Center researchers are participating as co-investigators on over 10 other grants elsewhere on campus that have ethics components.

A. Current Funding

*Beyond Stigma: Interpreting Genetic Differences* (National Institutes of Health). PI: Mildred Cho, Ph.D. 2000-03. Total Funding: $273,000

*Education in Genetic Ethics* (University of Louisville/ National Institutes of Health). PI: Barbara Koenig, Ph.D. 2002-05. Total Funding: $410,000

*Effects of Gene Patents on Genetic Testing and Research* (National Institutes of Health). PI: Mildred Cho, Ph.D. 2000-03. Total Funding: $953,000
Ethical Challenges in Neuroimaging (The Greenwall Foundation). PI: Scott Atlas, Ph.D., Co-PI: Judy Illes, Ph.D., Tom Raffin, M.D. 2001-04. Total Funding: $150,000

Ethical Dimensions of Neuroscience Research  (Bio-X Interdisciplinary Initiatives Program). Center for Biomedical Ethics – Barbara Koenig, Ph.D., Hank Greely, J.D. 2003-04. Total Funding: $150,000

The Ethics of Identifying Race in the New Genetics (National Research Service Award - National Institutes of Health). Award Recipient: Sandra Lee, Ph.D. 2000-03. $127,900


Genetics of Nicotine Addiction: Examining Ethics and Policy (National Institutes of Health). PI: Barbara Koenig, Ph.D. 2002-05. Total Funding: $1,200,000


Initiative to Improve Palliative and End-of-Life Care for African-Americans (North General Hospital). PI: LaVera Crawley, M.D. 2001-03. Total Funding: $62,000


Neuroethics: Mapping the Field Conference (The Dana Foundation). PI: Barbara Koenig, Ph.D. 2002. Total Funding: $105,000

Neuroethics: Mapping the Field Travel Support (National Institutes of Health). PI: Barbara Koenig, Ph.D. 2002. Total Funding: $40,000


Tissue Engineering: the Morphogenesis of a New Scientific Field (National Science Foundation). PI: Linda Hogle, Ph.D. 2001-04. Total Funding: $289,000


B. Pending Grant Applications

Adult-To-Adult Living Liver Transplantation: Physicians and Donors’ Decision-Making Processes (NIH Center for Diabetes, Digestive and Kidney Diseases). Linda Hogle, Ph.D.

Advanced Neuroimaging: Ethical, Legal and Social Issues (National Institutes of Health). Judy Illes, Ph.D.

Differential Trust and Cancer Care within Black Subgroups (National Cancer Institute). LaVera Crawley, M.D.

Distributive Justice in Human Genetic Variation Research (National Human Genome Research Institute Ethical, Legal and Social Implications Program). Sandra Lee, Ph.D.

Ethical and Social Concerns In Adult-To-Adult Living Liver Transplantation (Robert Wood Johnson Foundation). Linda Hogle, Ph.D.

Evaluating Evidence In Novel Combination Products: Risk, Benefit and Protection of Human Subjects in Tissue Engineering Trials (National Institutes of Health). Linda Hogle, Ph.D.

Fetal Alcohol Syndrome: An Electronic Curriculum (Centers for Disease Control). Sally Tobin, Ph.D.

Research Ethics in Medical Device Development (Office of Human Research Protection). Linda Hogle, Ph.D.

Towards a New Vocabulary for Human Genetic Variation (National Institutes of Health). Mildred Cho, Ph.D.

Web-Based Research Integrity Training for Biomedical Engineers and Medical Device Researchers (Office of Research Integrity). Linda Hogle, Ph.D.

C. Research Publications

1. Books


2. **Book Chapters**


3. Articles


Greely, H.T. Pharmacogenomics: Promise, Prospects, and Potential Problems. Medical Ethics vol. 9, issue 1, 1-2, 8 (Winter 2002).


4. Abstracts

Cho, M.K., Lin, Z., Klein, T., Altman, R. Methodology on Scrubbing Data in PharmGKB. Presented at the Pacific Symposium on Biocomputing 2001, Kohala Coast, HI.


5. Internet/Multimedia


IV. EDUCATION, SERVICE AND OUTREACH

SCBE educational programs extend from student teaching and mentoring to distance-based learning. These include undergraduate and graduate courses across the campus and the hospital as well as seminars and symposia on a wide range of contemporary topics in biomedical ethics. Medical school education remains a primary focus, with bioethics taught as a vertical thread throughout the medical school curriculum. SCBE also is home to a filmmaker-in-residence program, supporting the cross-fertilization of bioethics and documentary filmmaking. Service and outreach include formal training and ethics advice to campus groups such as members of the Human Subjects Panels, development of web-based training modules in research ethics and conflicts of interest for campus-wide use, participation in University committees, service to national professional organizations, advice to local and national policy-makers, and outreach to the general public through lectures and the lay press.

SCBE staff administer the clinical bioethics program within Stanford Hospitals and Clinics, including leadership of the hospital's clinical ethics committee, twice weekly ethics rounds in the intensive care units, and consultation to individual patients, families and health care providers confronting moral conflicts and uncertainties.

A. Stanford Teaching

SCBE staff participated in or taught lectures in the following courses:

School of Medicine

- BIOC 118: Genomics, Bioinformatics and Medicine
- BIOMEDIN 234: Biomedical Genomics
- GEN 201: Human Genetics
- HRP 210: Health Law and Policy
- HRP 228: Molecular Epidemiology (“Ethical Issues in Epidemiological Research”)


- MED 224: Ethnicity and Medicine ("Race/Ethnicity and Trust")
- MED 255: Responsible Conduct of Research
- MED 399: Research (Primary Faculty)
- MED: Preparation for Clinical Medicine
- PRECEPT Research Ethics ("Ethics and End-of-Life")

**Stanford Hospitals & Clinics**
- Center for Education (Futility in Medical Treatment)
- Department of Pulmonary and Critical Care
- Department of Neurosurgery (Neuroimaging Research: Compelling Questions, Ethical Implications)
- Grand Rounds:
  - Biomedical Ethics
  - OBGYN
  - Pulmonary (VA)

**Graduate School of Business**
- GSBGEN 522: Ethical Issues in the Biotech Industry ("Direct-to-Consumer Advertising of Prescription Pharmaceuticals")

**School of Engineering**
- CHEMENG 450: Introduction to Biotechnology
- ME 374: Biomedical Technology Innovation Fellows Program ("The ‘Other’ Market Research: Social, Ethical and Policy Issues in Device Development")
- ME 382: Biomedical Device Design and Evaluation ("Social, Ethical and Policy Issues in Device Development")
- ME 385: Introduction to Tissue Engineering ("Social, Ethical and Policy Issues in Tissue Engineering")

**School of Humanities**
- ANTHSCI 174: Bioethics and Anthropology
- BIOSCI 109: The Human Genome
- CASA 1: Introduction to Cultural Anthropology ("The Role of Medical Anthropology in National Health Policy" and "Anthropology of Medicine: What Does a Medical Anthropologist Do?")
- CASA 80: Race and Ethnicity in East Asia
- CASA 85: South Asian Diasporas: History, Culture and Politics
- CASA 95: Research in Anthropology
- CASA 143: Anthropology of Death and Dying
- EIS108: Ethics and the Professions ("Medicine as a Profession - Autonomy and Informed Consent")
- HUMBIO 127: Seminar on Conducting Research ("Human Research in Third World Countries")
- HUMBIO: Ethical Issues on Research in Human Subjects ("Ethical and Regulatory Issues In Tissue Engineering And Combination Products")
- IHUM 46: Visions of Mortality
LING 52Q: Stanford Introductory Dialogue: Doctor-Patient Communication
SOC 141A: Social Class, Race/Ethnicity and Health (“The Meanings of ‘Race’ in the New Genomics”)

Other
- “Teaching Culture and End-of-Life Care” End-of-Life Care Stanford Faculty Development Program – Faculty
- “Formulas for Funding Success” - SUMC Mentoring Program
- Stanford University IRB Educational Series (“Deception in Research: Human Subjects Considerations, the Therapeutic Misconception” and “Research Ethics and Social Science Methods”)

B. Service on University Committees

SCBE staff participated in and contributed to the following university committees and programs:

School of Medicine and Hospitals
- Bio-X Leadership Council
- Center for Primary Care and Outcomes Research (PCOR) and the Center for Health Policy (CHP)
- LPCH and UCSF School of Nursing: Cultural Advisory Committee (in support of study “Latino and Chinese Families in Pediatric Palliative Care”)
- LPCH Ethics Committee
- SHC Ethics Committee
- SHC Task Force on Patient Consent
- SoM Candidate Admissions
- SoM Conflict of Interest Committee
- SoM Department of Oncology: Chair, Education Task Force, Clinical Cancer Genetics Program
- SoM General Clinical Research Center: Medical Advisory Committee and Safety Monitoring Board
- SoM Med Scholars Program
- SoM Review Committee for Health Services Research Interdisciplinary Graduate Program
- SoM Tissue Bank Advisory Committee
- Stanford Brain Research Center
- Women’s Health at Stanford

University
- Center for Biodesign
- “Ethics in Society” Program Steering Committee
- The Research Institute of Comparative Studies in Race and Ethnicity (RICSRE) - Member, Executive Committee
- Stanford Center for Law and the Biosciences (Director)
Stanford Human Genome Education Program (for high school teachers) - Member, Advisory Committee, “Leadership Alliances in the Biological Sciences”
Stanford Program in Law, Science, and Technology
Stanford University Committee on Research

C. Student Mentoring

Medical School
- Ellan Fan (Medical Student) 6/01-6/02, “Consumer-driven imaging”
- Khaliah Johnson (Medical Student) "Race/Ethnicity and Trust in the Doctor-Patient Relationship"
- Micean Johnikan (Master’s Student -Epidemiology ) 2001-02, “Determination and Assessment of Motivational Factors in Human Subject Recruitment”
- Brian Kim, (Medical Student) 6/01-8/02, “Incidental findings on MRI”
- Matt Kirschen (MD/PhD Student), 1/02 - present, “Emerging Trends in fMRI”

Undergraduate
- Samantha Illangasekare, Human Biology
- Rochelle Lee (Human Biology 2002) Neuroethics Library & Conference Intern
- Herbrina Sanders (Undergraduate Advisor, Human Biology, 2001-present)
- Lynn M. Yee (Undergraduate Advisor, Human Biology, 2001-present).

Other Student Mentoring
- Department of Cultural and Social Anthropology: Program in Comparative Studies in Race and Ethnicity
- Medical Anthropology topics (social and policy issues related to organ transplantation or the use of human tissue)

D. Public Service

- California Senate Committee on Appropriations: Report of the California Advisory Committee on Human Cloning – Hearing
- California Senate Committee on Health: Regulation of Human Cloning – Hearing
- California Senate Committee on Health: Stem Cells and California Law – Hearing
- Institute of Medicine: Committee on Care of Children Who Die and Their Families
- Lasker Foundation - Forum on Biomedical Ethics
- Senators William Frist and Ted Kennedy: advisor for new Senate Bill “Quality of Care for Individuals With Cancer Act”
- U.S. Department of Health and Human Services: Secretary’s Advisory Committee on Genetic Testing
- U.S. Senate Judiciary Committee: Hearing on Human Cloning
- U.S. Representatives Lynn Rivers and Curt Weldon: Advisor for House Bills HR 3966 “Genomic Research and Diagnostic Accessibility Act” and HR 3967 “Genomic Science and Technology Innovation Act”

E. State and National Boards and Committee Memberships

- Advisory Committee for a National Medical Curriculum on Pain Care
- Affymetrix
- American Association for the Advancement of Science Program on Dialogue on Science, Ethics & Religion
- Americans for Better Care of the Dying
- Bay Area Biosciences Center
- California Advisory Committee on Human Cloning
- Case Western Reserve University
- Human Genome Diversity Project
- International Genetic Epidemiology Society
- The National Academies Committee on The Use of Third Party Toxicity Research with Human Research Participants, the Science, Technology, and Law Program
- National Human Genome Research Institute - Genetic Variation Consortium
- National Human Genome Research Institute Haplotype Mapping Project
- National Human Genome Research Institute - Non-Medical Applications of Genomics
- NIH Program Project on Human Genetic Variation
- National Institute of Neurological Diseases and Stroke/Office of Research Integrity Ad Hoc Study Section
- National Medical Association Biomedical Education and Research Division.
- Northern California Cancer Center
- Oregon Health Sciences University - Program of Research on End-of-Life
- Robert Wood Johnson Foundation - Last Acts Campaign
- Santa Clara County Medical Association
- Sarcoidosis Research Institute
- UCSF School of Nursing: Consultant on NIH-funded Genomic Nursing Training Program
- U.S. Department of Health and Human Services - Secretary’s Advisory Committee on Genetic Testing
- U.S. Department of Veterans Affairs: Genetic Tissue Banking Initiative, Cooperative Studies Program (CSP) Coordinating Center
- World Cell Line Collection 1
F. Editorial Boards and Major Assignments

American Journal of Bioethics
American Journal of Public Health
Annals of Internal Medicine
BioMed Central
Clinical Genetics
Community Genetics
Journal of the American Medical Association
Journal of General Internal Medicine
Journal of Palliative Medicine
Medical Anthropology
Science
Science & Engineering Ethics
Science, Technology, and Human Values

G. Leadership in Professional Societies

American Anthropological Association
Americans for Better Care of the Dying
American Society for Bioethics and Humanities
American Society of Law, Medicine, and Ethics
Association for Asian American Studies
Association for Asian Studies
Association for Behavioral Science and Medical Education
Council on Nursing and Anthropology
Hastings Center
Initiative to Improve Palliative Care for African Americans
National Medical Association Biomedical Education and Research Division.
Society for Applied Anthropology
Society for Cultural Anthropology
Society for Medical Anthropology
Society for Psychological Anthropology
Society for the Social Study of Science
Women in Neuroscience

H. Journal Review

American Journal of Public Health
Annals of Internal Medicine
Archives of Internal Medicine
Brain and Language
Brain and Cognition
Community Genetics
Current Pharmacogenomics
End of Life Physician Education Resource Center
Gerontologist
Health
Health Affairs
Isis
Journal of the American Medical Association
Journal of General Internal Medicine
Journal of Health, Policy and Law
Journal of Palliative Medicine
Medical Anthropology
Medical Anthropology Quarterly
Oxford University Press
Science
Science and Engineering Ethics
Science, Technology and Human Values
Social Science and Medicine
Technology and Culture
Theoretical Medicine and Bioethics
Western Journal of Medicine

I. Grant Review

The Council for the Humanities of the Netherlands Organisation for Scientific Research
Genome Canada
Greenwall Foundation
Humanities and Social Science Research Council of Canada
Manitoba Health Research Council
Meyer Memorial Trust
National Institutes of Health
National Science Foundation
Robert Wood Johnson Foundation
Rockefeller Foundation
University of California
U.S. Veteran’s Administration Health Care Service
The Wellcome Trust

J. Conferences Organized

Congressional Black Caucus Annual Legislative Conference Issue Forum: Improving Care for African Americans Near the End-of-Life (Washington, DC)

Education in Genetic Ethics Conference (Stanford, CA)
Heritage, Health, and Hope Forum for the Initiative to Improve Palliative Care for African Americans (New York, NY)

Neuroethics: Mapping the Field (San Francisco, CA)

Rockefeller Foundation Workshop Innovia: Transnational, Translational Research in Medical Innovation (Bellagio, Italy)

K. National Lectures and Presentations

Agency for Healthcare Research and Quality (AHRQ) and the National Endowment for the Humanities (NEH): Setting A Research Agenda for Health and the Humanities (Potomac, MD)

American Anthropological Association: Comparative Diaspora Studies: Koreans in Japan and the United States (Chicago, IL)

American Anthropological Association: Building the Able-bodied Subject: The Anthropology of Bioengineered Futures (New Orleans, LA)


American Anthropological Association: Jurisdictions of Authority and Expertise in Science and Medicine (New Orleans, LA)

American Anthropological Association: Constructing Race in Japan: Managing Stigma in Everyday Life (San Francisco, CA)

American Association for the Advancement of Science Meeting: The New Genetics: Medicine and the Human Genome (Washington, DC)

American Society of Bioethics and Humanities: Bioethicists, Biotech Corporations, and Conflicts of Interest (Salt Lake City, UT)

American Society for Clinical Pharmacology and Therapeutics: Ethical Issues in Pharmacogenetics (Atlanta, GA)

Cold Spring Harbor Laboratory Genome Sequencing and Biology Meeting: Social Implications of Genetic Difference (Cold Spring Harbor, NY)


Congressional Black Caucus Annual Legislative Conference: Improving Care for African Americans Near the End-of-Life (Washington, DC)
Duke Institute on Care at the End of Life Symposium: Crossing Over Jordan: African Americans and Care at the End of Life (Durham, NC)

European Association for Science and Technology Studies: The Biopolitics of Organs and Tissues (Salt Lake City, UT)

European Association for Science and Technology Studies: Transforming Human Remains: Cultural Concepts of Waste and Human Biological Materials (Salt Lake City, UT)

Foundation for Research in Economics and the Environment: Ethical, Social, and Legal Issues in Human Genetics (Salt Lake City, UT)


German Federal Ministry of Education and Research: Access and Costs of Genetic Tests (Berlin, Germany)

Georgia Institute of Technology: Tissue Engineering (Atlanta, GA)

Illinois Judiciary: Legal and Social Issues in Human Genetics (Chicago, IL)

Indiana University/Purdue University at Indianapolis - Program in Medical Humanities: Human Cloning: Ethical, Legal, and Political Issues (Indianapolis, IN)

Indiana University School of Medicine Department of Clinical and Molecular Genetics: Iceland's Genetic Research Plan: Ethical and Legal Implications for Genotype/Phenotype Resources Worldwide (Indianapolis, IN)

Initiative to Improve Palliative Care for African Americans: Is Palliative Care a Legitimate Priority in the Face of Health Care Disparity (New York, NY)

Intercultural Cancer Council and Baylor College of Medicine: Barriers to Hospice and Palliative Care for African-Americans (Washington, DC)

3rd International DNA Sampling Conference: Ethical, Legal and Social Issues: Racial Profiling of DNA Samples: Will It Affect Scientific Knowledge of Human Genetic Variation? (Montreal, Canada)

Memorial University of Newfoundland: Commercialization of Human Genetics in Newfoundland (St. John’s, Newfoundland and Labrador, Canada)

National Human Genome Research Institute (NHGRI): Beyond the Beginning: The Future of Genomics (Warrenton, VA)
National Institutes of Health, Integrative Conference on End-of-life Research: *Can Guidelines Be Created for Limiting Treatments in Older Persons Who Have Seriously Diminished Quality of Life?* (Bethesda, MD)

National Institute of Human Genome Research Institute - Ethical, Legal, and Social Implications (ELSI) Program Decade in Review Conference: *Genetic Variation and the Category of “Race” in SNPs Research* (Bethesda, MD)

National Medical Association: *Ethics and Human Subjects Protection: Balancing Roles as Physician and Investigator; Ethical Issues of Pain Management and Effects on African Americans; and Communicating Bad News, Advance Directives, and Medical Futility: What We Need to Know* (Honolulu, HI)

Neuroscience Future Conference: *Social Implications of a Revolution in Human Neuroscience: An Early Survey from 2025* (London, UK)

Office of Research Integrity: *Policies on Conflicts of Interest at US Universities* (St. Louis, MO)

Pennsylvania State University: *Will ‘Race’ Matter in the New Genomic Medicine?* (Hershey, PA)

Presidential Sesquicentennial Conference on the Human Genome: *Conflicts of Interest in Biomedical and Genomics Research: The View from Academia* (Minneapolis, MN)

Secretary’s Advisory Committee on Genetic Testing: *The New Genetics: Courseware for Physicians* (Washington, DC)

Society for the Social Study of Science: *Anticipating the Social: Accountability and Regulation in Technoscience* (Milwaukee, WI)

Society for the Social Study of Science: *Challenges of Research on Human Subjects* (Boston, MA)

Thomas Hart and Mary Jones Horning Endowment in the Humanities Lecture Series: *The Human Genome: Historical and Contemporary Issues in Science, Law, and Medicine* (Corvallis, OR)


University of Maine Libra Foundation Lecture in Bioethics: *Ethical and Social Issues in Human Genetics: An Overview* (Machias, ME)

University of Minnesota: The Florence Schorske Wald Lecturer (Minneapolis, MN)
University of Pittsburgh Survival Skills and Ethics Course:  *Conflicts of Interest* (Snowmass, CO)

University of Texas Southwestern Medical Center Ethics Grand Rounds:  *Genomics, Race, and Health Disparities Research* (Dallas, TX)

University of Utah: Cowan Lecturer (Salt Lake City, UT)

West Harlem Environmental Action (WE ACT) National Conference:  *Human Genetics, Environment, and Communities of Color: Ethical and Social Implications* (New York, NY)

L.  **Local and Regional Lectures and Presentations**

Adaptive Business Leaders:  *Presentation to Governing Board* (San Francisco, CA)

Affymetrix:  *“Race” Matters in Genomic Medicine* (Sunnyvale, CA)


BIO Biotechnology Industry Organization:  *Bioethicists and Biotech Companies* (San Diego, CA)


Cerus Research Council:  *Ethical Issues in the Biotechnology Industry* (Concord, CA)

Charter 100 Club:  *Genetic Testing for Hereditary Breast Cancer Risk: Issues and Answers* (San Francisco, CA)

Endocrine Society:  *Ethical, Legal, and Social Issues in Pharmacogenomics* (San Francisco, CA)

Hastings College of Law Symposium on Human Cloning:  *Cloning and Government Regulation* (San Francisco, CA)

Health Care Law Society:  *Regulating Health Care Privacy and Data Security Without Stifling* (San Francisco, CA)

Kaiser Oakland Genetics Grand Rounds:  *New Technologies in Genetics and the Primary Care Physician* (Oakland, CA)

Lick-Wilmerding High School:  *Genetics and Ethics* (San Francisco, CA)
Lucile Packard Hospital: *Social and Ethical Issues in Genetic Testing* (Stanford, CA)

National Medical Association Project IMPACT: Clinical Trials and African Americans: *Why Should We Care* (Los Angeles, CA)

Norwegian Research Council: *Ethical, Social, and Legal Issues Arising from the Revolution in Human Biological Sciences* (San Francisco, CA)

The Pacific Business Group on Health: *The Human Genome Project and the Future of Health Coverage* (San Francisco, CA)

Palo Alto Medical Foundation: *Challenges in Biomedical Ethics and Advanced Imaging* (Palo Alto, CA)

Peninsula Center for the Blind and Visually Impaired: *Stem Cell Transplants and Other Legal Issues that Affect Eye Research* (Palo Alto, CA)

Quest Program: *Human Cloning* (Stanford, CA)

Roche Pharmaceuticals: *Biomedical Ethics* (San Francisco, CA)

San Francisco Veterans Affairs: *Ethical Challenges in Advanced Medical Imaging* (San Francisco, CA)

Santa Clara University: *Legal and Regulatory Issues in Human Cloning, California Cloning: A Dialogue on State Regulation* (Santa Clara, CA)

Society for Medical Anthropology Spring Meeting: *Medical Anthropologists ‘Doing’ Policy: A Report from the Genetic Trenches* (San Francisco, CA)

Society for Medical Anthropology: *The Embodied Experience of Genetic Risk: Where Biomedical Knowledge Meets Bodies* (San Francisco, CA)

Society for Neuroscience Annual Meeting: *The Human Neuron Mouse: Ethical and Social Issues* (San Diego, CA)

SRI International: *Emerging Trends and Challenges in Advanced Neuroimaging* (Menlo Park, CA)

Stanford Alumni Club of Sonoma: *Human Cloning: Science, Policy, and Politics* (Santa Rosa, CA)

Stanford Department of Communication and the Peninsula Press Club: *Journalism and the Ethics of Disclosure: When What We Have a Right To Know Is Not Right To Publish* (Stanford, CA)
Stanford Department of Health Research and Policy: *Effects of Patenting Practices on Research* (Stanford, CA)

Stanford Foreign Graduate Student Orientation: *Human Cloning and Embryonic Stem Cells: Science, Policy, and Politics and Ethical, Legal, and Policy Issues in Human Cloning* (Stanford, CA)

Stanford Health in the Digital Age Conference: *Commentary on Trusted Systems and Genetic Research* (Stanford, CA)

Stanford Human Genetics Journal Club: *Patents and Genetics: The Current Status and its Consequences* (Stanford, CA)

Stanford John S. Knight Fellowship Program for Professional Journalists: *After the Human Genome* (Stanford, CA)

Stanford John S. Knight Fellows Seminar: *Ethical, Legal, and Social Issues in Human Genetics and After the Human Genome* (Stanford, CA)

Stanford Korean American Students’ Conference: *Confucianism and Gender in Korean American Life* (Stanford, CA)

Stanford Parents’ Weekend: *Stem Cells, Human Cloning, and Public Policy* (Stanford, CA)

Stanford Serra House Seminar: *Stem Cells and Human Cloning: Policy and Politics* (Stanford, CA)

Stanford University: The European Patent Office Comes to Silicon Valley: *Biotechnology and Research Tools Patents* (Stanford, CA)

Stanford Think Again Program: *Morality and Immortality* (Chicago, IL; New York, NY; Portland, OR; Seattle, WA; Dallas, TX)

Stanford University Medical Center: *The Meaning of ‘Race’ in the New Genomic Medicine* (Stanford, CA)

Stanford Vice Provost for Undergraduate Education: *Human Cloning and Stem Cell Research: Science, Policy, and Politics* (Half Moon Bay, CA)

UCLA Task Force on Conflict of Interest: *Policies on Faculty Conflict of Interest* (Los Angeles, CA)

UCSF: *Pain Management and End-of-Life Care: A Comprehensive Approach to Patient Care* (San Francisco, CA)

UCSF Medical School: *Cultural Issues in Organ Transplantation* (San Francisco, CA)
UCSF College of Nursing: *The New Genetics and the Future of Healthcare* (San Francisco, CA)

University of California, Irvine Department of Medicine Grand Rounds: *Will ‘Race’ Matter in the New Genomic Medicine?* (Irvine, CA)

VA Hospital Pulmonary and Critical Care Medicine Grand Rounds: *When is a Patient Dying?* (Palo Alto, CA)

Women’s Organization of Los Altos/Los Altos Hills: *Science and Ethics Update* (Los Altos, CA)


M. Media Appearances

ABC Nightline
Agence France Presse
Atlantic Monthly
Associated Press
Business Week
Chicago Daily Law Bulletin
Chicago Tribune
Contra Costa Times
Dallas Morning News
Durham Herald-Sun
E Magazine
The Financial Times
Frankfurter Allgemeine Sonntagszeitung
Journal of the American Medical Association.
Knight-Ridder Tribune
KPIX Channel 5
KQED
Los Angeles Times
Mother Jones
Nature
National Public Radio
New Crisis
The New Republic
New York Times
Palo Alto Daily
PBS: “The Gene Files”
The Philadelphia Inquirer
Richmond Times-Dispatch
Sacramento Bee
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