

# Stanford Bioethics

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## State of the Center

The last year has been another very active year for bioethics and for SCBE. We witnessed the death of Terri Schiavo, the birth of the California Institute of Regenerative Medicine and lawsuits against the California stem cell initiative, the use of nuclear transfer to create human embryonic stem cells, and the cloning of dogs, among other things. SCBE facilitated public dialog of important ethical issues as they arose – for example, we hosted a mini-symposium about the Terri Schiavo case, entitled, “When Life Should End: Who Should Decide?” with David Magnus, director of SCBE, and Deborah Rhode, director of the Stanford Center on Ethics speaking to a standing-room only crowd at the medical school, moderated by Julie Parsonnet, Senior Associate Dean for Medical Education. In May, David Magnus and Mildred Cho wrote an article that accompanied the publication of the work of Hwang et al. in *Science* describing the development of “individualized” human embryonic stem cell lines using nuclear transfer.

On the educational front, SCBE has added a number of new courses to its roster, which are described below. In addition, Audrey Shafer is offering two medical humanities courses this year, INDE 211: Creative Writing and INDE 226: History of Medicine. LaVera Crawley is developing a new course on research methods in bioethics, capitalizing on her background in both qualitative and quantitative methods. Clarence Braddock continues to make significant improvements to INDE 201: Practice of Medicine, which is a major portion of the medical school curriculum, and this year LaVera Crawley is taking the lead on developing the ethics component.

SCBE researchers have taken the lead in helping to develop research policy that addresses key ethical issues, such as researcher’s obligations to report research findings to subjects. Judy Illes led an NIH-funded initiative on “Detection and Disclosure of Incidental Findings in Neuroimaging Research,” and Mildred Cho, Sally

Tobin and Judy Illes assembled a working group, funded by NIH and DOE, to address the question of reporting results of genetic research to subjects.

Finally, SCBE is undergoing much-needed renovations at the end of the summer, and looks forward to another busy and successful year.



## SCBE Launches New Stem Cell Program: Group will study ethical, legal and social dimensions of stem cell research

Stanford’s leadership in stem cell research has spurred the formation of a new group that will tackle social, legal and ethical questions associated with stem cell research and medicine. The Program in Stem Cells and Society (PSCS) is the fifth program on the SCBE roster, joining the Program in Neuroethics, Center for Integrating Research in Genetics and Ethics (CIRGE), the Biomedical Ethics and Film Program, and the Program in Arts, Humanities and Medicine.

“An ELSI-like program in stem cells is a natural fit for Stanford,” says SCBE director David Magnus, in a reference to the Human Genome Project’s ethics, legal and social issues working group. Hank Greely will direct the program. “PSCS will have a close association with Stanford’s Institute for Stem Cell Biology and Regenerative Medicine,” he says. “I hope it will help set the agenda for stem cell policy in California, the United States, and the world.”

The group is already hard at work. The research lineup includes examining important ethical and policy issues such as informed consent, state and federal funding and regulation, patient advocacy, the timing of and transition to clinical trials, the effects of state and federal legislation on economic development, and ethical issues in cord blood and hematopoietic stem cell transplants.

PSCS activities go beyond research to include education and public service. Two new multidisciplinary classes in stem cell biology, ethics and policy are slated for the Winter quarter, one in Continuing Education, the other in Human Biology. The classes will join existing seminars and lectures as part of an ambitious teaching schedule. A documentary film about stem cell research is also in the offing. Consultations and public service are part of the PSCS mandate—members are available to medical school and campus committees overseeing stem cell research. In addition to the Stanford responsibilities, the group plans outreach projects to patient rights organizations and education for legislators, staff and other public servants.

Along with Magnus and Greely, PSCS membership includes SCBE associate director Mildred Cho, Neuroethics director Judy Illes, and Maren Grainger-Monsen, who leads the Biomedical Ethics in Film Program. Joining this group is Christopher Scott, former Assistant Vice Chancellor of Research at UCSF and lawyer Ken Taymor. Scott was formerly Stanford’s Director of Research Development and is a past member of the PGES. An attorney in private practice, Taymor has taught law and economics at Stanford and has served as special counsel to numerous state and local agencies in California.

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### Center for the Integration of Research on Genetics and Ethics Completes First Year

Completing its first year, the Center for the Integration of Research on Genetics and Ethics (CIRGE) established five major programs, including: the Program for Integrated ELSI Research, the Benchside Ethics Consultation Service, the Genetic Research Policy Development Program, CIRGEweb, and the CIRGE Postdoctoral Training Program.

#### The Program for Integrated ELSI Research (PIER)

The Behavioral and Neurogenetics Working-Group, led by Judy Illes and Joachim Hallmayer, and including research assistants Jennifer Singh and Cheryl Theis, initiated the Autism Project. The project examines autism as a model system for investigating the reciprocal influences of social processes and biomedical research on the identity of neurobiological difference. The research gives special attention to the evolution of a genetic understanding of autism. The project includes: a historical and comparative analysis of funding for autism research, a study of scientific and popular definitions of autism and understanding of its causes, and qualitative study identifying the role of advocacy groups on genetic research on autism. In March, PIER also co-hosted a symposium at Stanford with the Stanford Knight Fellowships Program for accomplished journalists, entitled, "Genetics, Neurobiology, and Addiction: Where are the answers?"

#### The Benchside Ethics Consultation Service

In collaboration with the Center for Genetic Research Ethics & Law (CGREAL) at Case Western Reserve University, CIRGE has outlined a structure for a genetic research ethics consultation service. The consultation team, including David Magnus, Hank Greely, Mildred Cho, Sally Tobin, Maren Monsen, and Gina Capodanno, developed a conceptual framework and a consultation protocol. New Program Manager Angie Boyce is developing an evaluation plan in order to measure the impact of the service.

#### Genetic Research Policy Development Program

CIRGE brought together CIRGE collaborators at Stanford and others in the genetic research and ELSI communities by organizing a workshop to discuss researchers' obligations for reporting results of genetic research to research subjects. Members of key CEERS and professional societies came together to begin to formulate guidelines on reporting results, and are working collaboratively to disseminate the results of the working group's deliberations to a variety of audiences.

#### CIRGEweb

Zach Pogue, Vince Dorie and Gina Capodanno have worked very hard to set up the CIRGE website. It is intended to be an extensive web resource that includes references and links to dozens of articles and websites on ethics, law, and policy pertaining to genetic research for genetic researchers, benchside ethics consultants, policy makers, and the general public. Recordings of CIRGE events and the CIRGE weekly newsletter will also be available for download through CIRGEweb.

#### CIRGE Postdoctoral Training Program

Two new postdoctoral fellows have started their training at CIRGE: Holly Tabor, who has a background in genomics research and the history of science, and Jennifer McCormick, who has a background in neurogenetics and science policy. They began in August 2005 and will be taking courses and planning research projects for their two-year fellowships.

#### SCBE Course Update

**INDE 136:** *David Magnus* will introduce a new course in Winter 2006, The Foundations of Bioethics, which will survey central topics in bioethics. The course will introduce students to classic articles, legal cases, and concepts serving as the foundation of the field, and will focus on the ethics of medicine and research on human subjects, assisted reproductive technologies, genetics, cloning, stem cell research, and ethical issues at the end of life.

**INDE 238:** *Sally Tobin*, with colleagues Iris Schrijver and Tina Cowan of Pathology, submitted a successful proposal to initiate a graduate level course in Interdisciplinary and Translational Research Training. The course, entitled

"Current Concepts and Dilemmas in Genetic Testing," focuses on issues arising as bench discoveries in genomic science and genetics move into the clinical realm. The course debuted in Spring 2005, and will be offered again in Spring 2006.

**MED 255:** *Mildred Cho* reorganized the Spring 2005 Responsible Conduct of Research course and it is now so popular that multiple course sections will be offered throughout the year to deal with the demand. For the upcoming academic year 2005-2006, *Sally Tobin*, who also led discussion sections in the previous RCR course, will organize and coordinate the course based on the discussion model initiated by Mildred.



#### Worlds Apart Continues to Receive Acclaim

*Maren Grainger-Monsen's* recent documentary *Hold Your Breath* was discussed in an April *Newsweek* article, "When Cultures Collide"; included in June on ABC World News Tonight; and featured in a *San Francisco Chronicle* article prior to a June screening as part of Film Arts Foundation's True Stories documentary series at Yerba Buena Center for the Arts in San Francisco. Maren is finalizing plans to screen the film this fall at locations around the country.

In July, Maren screened the Mohammad Kochi *Worlds Apart* story at the Islamic Medical Association of North America's annual meeting in San Francisco. The *Worlds Apart* films were screened in April as part of a Faculty Development Session at the University of Nevada, and during the plenary session, "Voice Lost in Translation: Caregivers/Patient Communication," at the *Faith and Culture* conference at the Oregon Health and Science University. *Worlds Apart* is currently being used in more than 45 medical schools, 150 residency programs and medical centers, and 180 colleges and universities, as well as libraries and other health-related educational institutions across the country: over 490 institutions nationwide.

## Faculty Profile: Sandra Lee

Sandra Soo-Jin Lee, PhD, has been awarded a five-year Scientist Development Award in Research Ethics grant from the National Human Genome Research Institute to work on the ethical and social implications of pharmacogenomics and distributive justice. While the promise of pharmacogenomics is an era of individualized medicine where drugs will be tailored to the genetic signature of each individual, Sandra is interested in issues around race and human genetic variation research and the ways pharmacogenetic technologies might impact our social conceptions of race and human difference.

Sandra's interest in issues around "race" and genetics began with her research on the use of racial and ethnic categories by publicly funded DNA repositories. Her research traced the often incongruous taxonomies used by various repositories in categorizing DNA samples and investigated their political and historical lineage. Focusing on the DNA Polymorphism Discovery Resource created in 1998, Sandra explored the unique decision by the NIH to eliminate racial and ethnic identifying information from the samples stored and distributed by the repository. Through extensive interviews with scientists familiar with the resource, Sandra found that the under use of the repository was often due to the "colorblind" policy and that scientists felt that information on "race," ethnicity, and ancestry was salient for their research.

Building on this research, Sandra's current project is focused on how scientists working in drug development conceptualize "race" and how these models of difference are incorporated into biomedical research. As part of her current research program, Sandra has been following various drugs, including BiDil, an anti-hypertensive drug, which was recently approved by the FDA for use only in African Americans. As the first drug to be approved for use exclusively in a racially identified population, Sandra is interested in how such a decision regarding drug labeling will impact on future trajectories in drug development and the interactions between race and genetics. A particular focus of her research is the impact genomic

technologies and drug development will have on existing health disparities.

In pursuing these questions, Sandra utilizes her training in anthropology to conduct ethnographic research, including participant observation of scientific laboratory settings, in depth interviewing of scientists working in both academic and commercial settings and extensive archival research. The goal of her work is to try to understand the meaning of concepts within a local sphere, rather than coming in with notions already of what race means, for example. The idea is to work with scientists to think about how they are defining race, because it may be very different in a different arena, how are they defining difference and how do they approach concepts like justice in their work? She is currently collaborating with a pharmacogenomics research group in the U.K. in comparative research on categories of "race" in science.



Sandra's interest in issues around "race" and their impact on health, social identity and justice began with her anthropological research of minority identity in Japan. Studying aging and the effects of social discrimination on the health of elderly Korean residents in Tokyo, Sandra began to think about the shifting boundaries of group identity and their impact on human life. Sandra has continued her exploration of these questions in studying how scientists think about "racial" and ethnic difference and its impact on biomedical research. One challenging question for the U.S. context is the porosity between traditional categories of "race" and the "mixing" of people. Sandra has noted the increased interest in using genomic technologies to determine ancestry and points to companies that try to parse out one's exact heritage. For example, you might be 20% European and 60% African American. However, Sandra believes we should take these

technologies with a grain of salt and that the amount of precision is somewhat suspect. What is most interesting however, is that there is such demand for this type of information which, Sandra says, reveals how we as a society privilege the idea of race as a biological category and will look to DNA and genetics research to tell us fundamental answers to questions of who and what we are. One of the questions left unanswered is how such information will impact on our ideas about human difference issues related to justice in health and healthcare. Sandra hopes by examining these topics as genomic technologies are developing, ethicists will be able to contribute to policies that are consistent with our social values.

Sandra is a Senior Research Scholar in the Stanford Center for Biomedical Ethics. She received her undergraduate degree in Human Biology at Stanford and her Ph.D. from the Joint UC Berkeley/UCSF Program in Medical Anthropology. She has been awarded a Rockefeller Foundation Humanities Fellowship, a National Research Service Award and a Career Development Award from the National Genome Research Institute. Her articles have been published in journals including the Yale Journal for Health Policy, Law and Ethics; PLoS Biology, American Journal of Pharmacogenomics; and JAMA. In December an article on her most recent research on race and pharmacogenomics will be appearing in the American Journal of Public Health. Sandra is currently working on a book, entitled *Excavating 'Race' in the New Genetics*, which examines the emerging discourse of difference in the context of recent advances in genomic technologies in human genetic variation research. This book will discuss the production of meaning around genes and individual and group identities through a focus on the categorization of DNA samples in publicly funded repositories in the U.S. and the development of disease and drug response association studies. This book will critically analyze the often competing stakes around "race" in the sampling, storing, and "sorting" of human genetic material and will discuss how claims of social justice, science and ethics reconfigure current struggles over the meaning of "race."

## Faculty/Staff News

**Audrey Shafer** reports that The Biomedical Ethics and Medical Humanities Scholarly Concentration got off to a great start last year with nine terrific second year Stanford medical students: Tina Allee, Cheri Blauwet, Hugh Keegan, Gina Kwon, Christopher Richards, Lori Rutman, Tracy So, Peter Van Roessel, and Joanna Wrede. These students, in addition to the usual medical school coursework, are also engaged in projects and taking courses related to the concentration. They are involved in the life of SCBE in numerous ways, such as attending Ethics Committee meetings, and providing student representation for various committees and programs such as the Jonathan King Lectureship Committee, the Arts, Humanities and Medicine Program and the Medicine and the Muse organizational committee.

**Eric Racine** joined the Neuroethics Imaging Group of the SCBE as a postdoctoral fellow in July 2004 to pursue research on the ethical challenges of contemporary neuroscience. Prior to coming to Stanford, Dr. Racine was research coordinator for several projects of the Bioethics Research Group dealing with public involvement in genomics research (Université de Montréal), and a member of Quebec's national ethics committee. His PhD thesis is an empirical study of the case analysis process in healthcare ethics committees (Université de Montréal). Dr. Racine has done internships in clinical ethics in Geneva and in Montréal, and he has sat on ethics committees. He holds a BA in philosophy and political science (University of Ottawa) and an MA in philosophy (Université de Montréal).

Since arriving at the SCBE, Dr. Racine has published with Dr. Judy Illes a target article on the ethics of neuroimaging in the *American Journal of Bioethics*, and results of a press content analysis of brain imaging in *Nature Reviews Neuroscience*. With the support of a postdoctoral fellowship from the Social Sciences and Humanities Research Council of Canada, he is now conducting an extensive and comparative analysis of neurotechnology in print media. He also joins projects led by Dr. Judy Illes (P.I.) including the examination of ethical issues in the use of predictive neuroimaging in Alzheimer's Disease funded by the National Institute of

Neurological Disorders and Stroke as well as a project supported by the Henry J. Kaiser Family Foundation examining if existing regulations are challenged by direct to consumer advertising of neurotechnology. Dr. Racine has given numerous talks, including recent talks on the ethics of neuroimaging at the Douglas Hospital Research Centre (McGill University, Montréal) and at the Philosophy Department of the University du Québec à Montréal. Last October, his paper "Is neuroethics the heir of the ethics of genomics?" (co-authored with Judy Illes) was one of the seven winners of the student competition of the Canadian Bioethics Society. He is currently preparing an empirical study of medical decision making in neurointensive care in collaboration with the Neurocritical Care Team of the Stanford Stroke Center.

**Julie Collier** has started service-based rounds with the cardiovascular surgery service and the pediatric intensive care service, attending as the sole ethics consultant, which has not previously been done in pediatrics. The idea behind it is that if teams are helped to think through difficult situations a little more clearly and earlier, the need for a full ethics consult can be avoided. Julie is also working with a sub-group of the pediatric ethics committee on developing ethical guiding principles for pediatric organ transplants at LPCH.

**Larry Zaroff** joined the SCBE faculty in April as a Senior Research Scholar. Larry is also a Consulting Professor in the Department of Anesthesiology and the Program in Human Biology. His research interests have included pacemaker development, connections between literature and medicine and the history of medicine. Larry teaches INDE 212 (The Human Condition: Medicine, Arts, and Humanities) for the HumBio concentration. In his spare time, he writes a column for the New York Times Science Section. Congratulations to Larry for being selected to receive the *Human Biology Award for Excellence in Faculty Advising* by Stanford University.

**Sally Tobin** is currently involved in several projects. She has completed a new edition of the popular multimedia courseware, "The New Genetics: Medicine and the Human Genome." Approximately 3000 copies of the original edition have been sold to

professionals and students who are interested in genetics, and it has served as a text in graduate and undergraduate classes. In addition to updating the content to include advances in science, medicine, and policy, the content is being transferred into a browser-based format that can be delivered either online or as a CD-ROM (for those who lack fast connections to the Internet).

Sally directed the Stanford component of the EDGE project (Education in Genetic Ethics), assisted by Raina Glazener. The project has developed a curriculum for professional education about ethical issues in genetic research. As a result of this project, she was invited to give the keynote address at the National Symposium on Ethical Issues in Genetic Research at National Cheng Kung University in Tainan, Taiwan in January 2005. Sally also gave an informal informational talk about the Stanford Center for Biomedical Ethics that was attended by academic deans and others who are interested in the possibility of using SCBE as a model for founding a similar center at National Cheng Kung University. Taiwan National University also requested a talk about the EDGE project.

Other activities include service as a review panelist for institutional grant applications submitted to the National Science Foundation's STEP program to increase numbers of students selecting majors in science, technology, engineering, and mathematics. Sally was also invited to serve as a member of a Committee of Visitors charged with reviewing the performance of the National Science Foundation's Plant Genome Program. She serves as co-chair of the Institutional Review Board for the Northern California Cancer Center and reviews all protocols submitted to the General Clinical Research Centers at Stanford Hospital and Lucille Packard Children's Hospital.

In addition to organizing the RCR course for 2005-2006 and introducing the "Current Concepts and Dilemmas in Genetic Testing" course, Sally also served as a guest lecturer in Human Biology 154 (Cancer Epidemiology) on the subject of balancing a family's shared genetic heritage with individual choices about genetic testing for hereditary cancer risk.

## On the Move: Hellos and Goodbyes

**Margaret Eaton** is retiring from SCBE and the Ethics Committee, and will be greatly missed. Of her many contributions to the development of the Center, her work with the Ethics Committee and her research into the commercialization of biomedical processes and technologies stand out. Because of Margaret's background as the hospital attorney and risk manager, she was able to look at the questions dealt with on the Ethics Committee from both a legal and an ethical perspective. She believes that because the two are so closely linked, it's almost impossible to view one without the other. The problem is that if you take a legal view, often times you can end up in a situation where you are protecting yourself from liability, but you are not doing the right thing for the patient. On the other hand, sometimes when you feel like you are accommodating what you think are the patient's best interests, you can risk running afoul of the law or having somebody sue you because you are either advising that the patient not receive treatment or that they are going to get treatment for which they haven't consented. What she tried to do was focus on the question of the ethical thing to do, but keep in mind the legal implications of that choice. Margaret was able to bring that perspective to the ethics committee, believing that the worst thing would be to advise the committee of something that they thought was ethically sound, but which would run directly counter to the law—more or less an unethical piece of advice. It was a fine line they walked, and an extremely fascinating one, though not always easy. In fact, most of the time it was pretty difficult to accomplish.

On the Ethics Committee, Margaret, in conjunction with Jose Maldonado, co-chair, made a major contribution by broadening the membership of the committee, making it more inclusive. They generated an environment which fostered more open dialogue, counter to the more traditional culture of hierarchy in medicine. The method adopted for ethical debate required everybody at the table to participate. Much richer information is gathered with this process, especially when trying to do what is best for the patient. Ultimately, Margaret feels, this method made the discussions better.

Another improvement was a constant renewal of the membership. Members

would serve on the committee for a period long enough to become comfortable with the concepts of ethical treatment of medicine and the values involved. When they got enough time to become proficient, they would rotate off the committee with the idea that they would take that new understanding and incorporate it into their own medical practice. They would then start anew with fresh members on the committee. This process has increased the population of clinicians with ethics training, and the quality of care patients receive. This process has been in place almost three years now and they have had significant turnover. At the end of every year decisions are made to refresh the committee and put seasoned members back into the community.

One regret for Margaret was that there was never time or funding to get training in dispute resolution techniques. Often the ethics consult service takes place in a climate of dispute between doctor and patient, patient and family, physicians and family, doctors and nurses. With mediation skills, in addition to their ethics training, she thinks the process of what they do could be a lot smoother and it would be much less traumatic. Even so, the committee is on a very good path. David Magnus has taken over and improved things even further.



A unique contribution Margaret made to the Center was to examine biomedical research and technologies in the context of commercialization. It is a fairly neglected area and most of the time there are dialogues and debates, for example, the ELSI Program at the Human Genome Project. They wanted an inclusive national and public debate and dialogue about the impact of sequencing the human genome, and included everybody—patients, physicians, healthcare providers, genetic counselors, judges, patient advocacy groups—but they left out the industry that was going to make products that stem from the human genome knowledge. That was a big hole. Because she had worked in the pharmaceutical industry before, Margaret knew about the process, and

in conjunction with Barbara Koenig, they decided this would be her main research focus while with SCBE, which has added an extra dimension. If there are issues that come up in the Center that include the commercialization aspect, she will continue to be involved, which is good news for SCBE! For instance, Margaret would like to examine the role of companies in developing and marketing stem cell products in California.

Margaret believes her major contributions are in the areas of research on commercialization, and her work on the Ethics Committee. She emphasizes that it took working in both fields—from a legal perspective and the ethics perspective—for her to gain an appreciation of how rich this area is, and how necessary it is for a hospital and a medical school to have an ethics department. She thinks David has really expanded both of these roles and the Center is in really good hands because of him. Everyone at SCBE feels that Margaret Eaton will be remembered for playing a major role in SCBE's development, and she will truly be missed.

**Azumi Tsuge**, Ph.D., was a Visiting Scholar at the SCBE as well as the Institution for Research on Women Studies and Gender. She is a Medical Anthropologist and Professor at the Department of Sociology, Meiji Gakuin University, Tokyo. Her primary research interest is the analysis of socio-cultural factors on the decision-making process of patients assessed by interview and observation methods. She will be returning to Japan in early September.

**Katie Alton** joins SCBE as the Program Manager for the Neuroethics Imaging Group. She is a graduate of Mount Holyoke College, where she studied Neuroscience and Behavior, and Philosophy. Katie's current research focuses on regenerative medicine and neuroimaging.

**Paula Bailey** joined SCBE earlier this year as Education Coordinator. She has a B.S. in Education and an M.A. in Organizational Management, with over twenty years of experience in the management of learning and organizational development programs in several high-tech corporations, working closely with senior leaders to achieve organizational goals. Paula has also been a consultant to the Stanford Center for Professional Development, marketing their courses to Silicon Valley managers and engineers.

**On the Move (Continued)**

**Angie Boyce** joins SCBE as CIRGE Program Manager. Angie obtained her A.B. in History and Science, Magna Cum Laude in 2003 from Harvard University. She also earned a certificate in Mind, Brain, and Behavior. She was the recipient of the Harvard National Scholarship, the John Harvard Scholarship, and the Thomas T. Hoopes Prize for her thesis entitled "Super(able) Man: Figures of Aggression and Violence in Bioscience and Culture." She has also completed coursework in the MIT Program in Science, Technology, and Society (2003-2004). Most recently she has worked at the Museum of Science in Boston, conducting front-end, formative, and summative evaluations of technology-related exhibits and programs.

**Jen McCormick** joins SCBE as post-doctoral fellow. Her educational background includes a bachelor's in biology, a doctorate in biology, and a master's in public policy. Her graduate work and a postdoctoral fellowship in biological chemistry were all completed at the University of Michigan. This past year, Jen was a lecturer at the University of Michigan, teaching and serving as course coordinator for two courses in national science policy. Recent/current activities include examining the impact of the August 9, 2001 hESC policy on hESC research with Jason Owen-Smith (UM) and co-authoring a book on national science policy with Homer Neal (UM) and Toby Smith (AAU).

**Holly Tabor** joins SCBE as post-doctoral fellow. Holly received her PhD in Epidemiology with a minor in Genetics at Stanford in 2002. Her research focused on candidate gene approaches to the study of complex diseases and traits, including heart disease, resistance to HIV infection, and autism. From 2002-2005 Holly was a Senior Scientist at the Stanford Human Genome Center, working with Rick Myers. There she directed the Genetics Group in candidate gene approaches to the study of heart disease, hypertension, insulin resistance and Parkinson's Disease. Holly has also worked on large scale epidemiological studies at UCSF and at Brigham and Women's Hospital. Holly is interested in ethical issues involved in the study of complex diseases. She is particularly interested in ethical issues surrounding autism. Holly lives in Mountain View with her husband Eric and her sons Colin and Jasper.

**Recent Publications**

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## **SCBE Upcoming Events**

### **September 6, 2005, 12:00 pm:**

Grand Rounds in Biomedical Ethics  
“The Ethics of Organ Transplantation”  
David Magnus, PhD  
Room M-104, Medical School

### **October 4, 12:00 pm:**

Grand Rounds in Biomedical Ethics  
“An Issue of Trust: Addressing Conflicts of Interest in Research”  
Leslie Wolf, J.D., M.P.H.  
Room M-104, Medical School

### **October 4, 2005, 5:00 pm:**

Fall Forum on Community Health & Public Service  
Sheri Fink, MD, PhD  
Frances C. Arrillaga Alumni Center

### **October 26, 2005, 5:00 pm:**

Jonathan King Lecture  
Neal Baer, M.D.  
“Doctors as Storytellers”  
Fairchild Auditorium

### **November 1, 12:00 pm:**

Grand Rounds in Biomedical Ethics  
Jim Hallenbeck  
Room M-104, Medical School

### **November 17, 2005, 8:00 am:**

Kovitz Lecture  
Medicine Grand Rounds  
Ezekiel Emanuel, MD, PhD  
Fairchild Auditorium

### **December 6, 12:00 pm:**

Grand Rounds in Biomedical Ethics  
Therese Jones, Ph.D.  
Room M-104, Medical School

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