

**Arri Eisen, Ph.D.**  
**Professor of Pedagogy**

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**Education**

**1990:** Ph.D. in Biochemistry from the UW-Seattle, WA.  
**1985:** B.S. with Honors in Biology from UNC-Chapel Hill, NC.

**Honors**

- Emory Williams Distinguished Teaching Award, 2014
- Distinguished Visiting Professor, United States Air Force Academy, Biology Department, 2007-2008
- Winship Fellowship, awarded from Emory for sabbatical study, 2007-2008
- Laura Jones Hardman Award for Excellence in Service to the Emory Community, 2007, a Crystal Apple Award, nominated by students
- Honorable Mention: Johnson Award for Best Paper in Ethics and Accountability in the Public Sector, 2005
- Emory College Center for Teaching and Curriculum Excellence in Teaching Award for the Natural Sciences, 1997, nominated by peers
- Omicron Delta Kappa service fraternity, 1997
- Phi Beta Kappa, UNC-Chapel Hill, 1985

**Occupational History**

- Professor of Pedagogy in Biology and Institute of Liberal Arts, Emory University, 2010-
- Director, Ethics in Science, Center for Ethics, 1999-
- Teaching Coordinator, Fellowships in Research and Science Teaching, 1999-
- Director, Emory College Program in Science & Society, 1998-
- Senior Lecturer in Biology Department at Emory University, 1996-2009
- Senior Lecturer in Graduate Institute for Liberal Arts, 2009-2010
- Lecturer in Biology Department at Emory University, 1990-1996
- Summer Undergraduate Research Programs Co-organizer and coordinator of programs, including students funded by Hughes, NSF-REU and Emory Graduate Division monies, 1992-1999.
- Howard Hughes Science Talent Enrichment Program Coordinator: programmed and led discussion and laboratory sessions in this program for minority students who had an

interest in science and would be starting Emory the Fall following the program, 1991-1993.

### **Science Research Experience**

- Researcher in the lab of Dr. John Lucchesi in the Biology Department at Emory University, studying sex determination in *Drosophila*, 1990-2014
- Ph.D. in the lab of Dr. E.T. Young, studying gene expression in yeast; specifically, the zinc-finger protein ADR1, and its role in the activation of the metabolically-regulated ADH2 gene. This work was undertaken in the Biochemistry Department at the University of Washington, 1985-1990.

### **Education and Outreach**

#### **I. Undergraduate Teaching (all at Emory, unless noted)**

- Epigenetics & Human Disease**, 2013-
- Cell Biology**, junior level course, 1994, 1995, 1998, 2002-2006, 2008-
- Interdisciplinary Foundations: Science and the Nature of Evidence**, 2009-
- Interdisciplinary Studies/Religion: Science and Religion**, in Italy, summer 2003, 2009, 20016.
- General introductory biology** to 100-150 freshmen at once, 1993-1994, 2009, 2010.
- Bioethics in the Genomic Era**, Freshman seminar, 2009, 2014; United States Air Force Academy, 2008.
- Senior Biology Capstone Seminar**, United States Air Force Academy, 2007.
- Introductory Biology for Scholars**, United States Air Force Academy, 2007.
- Sound and Science of Water**, advanced seminar, 2007.
- History and Biology of Addiction and Depression**, advanced seminar, 2006.
- Biology of Sex and Gender**, advanced seminar, 2005.
- Humans and Animals as Genetically Modified Organisms**, senior seminar, 2004.
- Evolution, Consciousness, Crime, and Identity**, cross-listed with ILA, 2003.
- Honors Introductory Biology**, Developed and taught a two-semester course initially as part of a Howard Hughes Medical Institute grant obtained by the Biology Department. The 25-student course involves conceptual thinking and hypothesis development, intensive hands-on experimentation, guest lecturers from among the university's researchers, and development of communication skills, 1991-2002.
- Mind, Medicine, and Healing**, senior seminar, 2003, 2006.
- Developmental Biology**, junior-level course, 1996, 1998.
- The Origins of Life**, senior seminar, 1997.
- Plant and Animal Viruses**, freshman seminar, 1999
- Experiments in Cell and Developmental Biology**, Developed, taught and administered this advanced undergraduate project lab, 1997-1998.
- Research mentor** for a dozen undergraduates in the Lucchesi lab. Two were NSF-REU Summer Research Fellows, and two won Goldwater Fellowships based on their work; two graduated with highest honors, one with high honors, 1991-

#### **II. Graduate Teaching**

- **Program in Scholarly Integrity Workshop**, The Dalai Lama and Secular Ethics for Laney Graduate School Students, October, 2013.
- **Water as Ethical Medium**, interdisciplinary graduate course (students from Philosophy, Public Health, Sociology, Anthropology, and Theology) with the Coca-Cola Company working on current case studies in Coke-supported projects on clean water access in the third world, Spring 2012.
- **Masters in Bioethics**, Foundations III core course: basic research and bioethics, Fall, 2010.
- **Masters in Bioethics**, Graduate seminar in bioethics, 2014, 2016
- **Program in Scholarly Integrity 600, Ethics and values of science and research**, Teach and organize 200-300 graduate students and post-doctoral and clinical fellows, NIH-required course, 1999-2007, 2009-2012 .
- **Teaching Assistant Training and Teaching Opportunity Leader**: Teach "Teaching using discussion" and "Teaching using writing" for this Graduate School-required course, 1994-2005.

### III. Post-Doctoral Fellow and Physician Teaching

- **Post-doctoral course in responsible conduct in research**: teach on mentoring and collaboration, annually 2009-.
- **Post-doctoral fellowships in Science, Ethics, and Education**: Received funding through the Emory Religions and the Human Spirit Strategic Plan and the Instructional Technology Subcommittee to fund 2 fellows who engage in interdisciplinary scholarship and public translation and education, 1999-2003.
- **Teaching Coordinator**: Develop, organize and lead 7-10 new post-doctoral fellows a year in learning how to teach (weekly seminar and related workshops and activities) in the Fellowships in Research and Science Teaching (FIRST), one of a few NIH-funded programs in the country in which fellows do research, learn how to teach, and teach at minority institutions (in our case Spelman, Morehouse, and Clark Atlanta), 1999-.
- **Co-teacher**: Ethical, Legal, and Social Issues in Responsible Clinical Research for Masters of Science in Clinical Research program for MDs at Emory, 2003-2007, 2009-.

### IV. Advising and Mentoring

- **Formally mentor two new faculty members in biology**, 2012-
- **Director of Undergraduate Honors Program in Biology**, 2011-
- **Academic Advising**:
  - Biology academic advisor for ~40 students a year, 1991
  - Interdisciplinary Studies (IDS) advisor for all 20-30 minors in Science & Society and for all those IDS majors focusing on science and society issues
  - Advisor for 3-5 Masters of Bioethics students
  - PhD committees in Interdisciplinary Studies
    - Leslie Leighton, MD, MS, Explaining the Unexplained: The Coronary Artery Disease Epidemic, 1900-1974.
    - Melissa Creary, An Identity Crisis for Sickle Cell Disease in Brazil
  - Liaison to the College for all IDS undergraduate advising (2009-2011)

- **Fellowships in Research and Science Teaching (FIRST):** mentor 20-30 fellows a year in special NIH-funded science teaching and research post-docs, 2001-
- **Honors Thesis Committee member,** serve on 3-7 committees annually, 1995-.
- **Elementary Science Education Program advisor,** 1994-1996.
- **Freshman Advising and Mentoring Program:** Meet informally once a week with 15-20 first-semester freshmen to do everything from discussing AIDS to attending baseball games. Also serve as the students' academic advisor until they select a major, 1991, 1992, 1994-1998, 2001, 2003, 2005, 2008.
- **Mentoring for Excellence:** Serve as a mentor, an intensive one-on-one relationship, for three students per year over their four years at Emory, 1991-1996.

#### V. Teaching-related activities:

- **Science Curriculum for Tibetan monks:** at the request of the Dalai Lama, working with several Emory and GA Tech faculty to develop a sustainable curriculum in life science, neuroscience, and cosmology for his monks, throughout the year and summers in Dharamsala, India, 2006-.
- **Instructional Technology Subcommittee,** Chair, Fall, 2007. Responsible for evaluating and funding cross-disciplinary educational projects involving IT.
- **Lecture Track at Emory;** spearheaded the development of a Lecture Track at Emory, led and organize this effort, which now includes more than 110 faculty, 1996-2002.
- **University Teaching Fund Committee,** member and chair of committee that disburses \$250,000/yr in a university-wide competitive grant program, 1997-2006 (Chair, 2000-2006).
- **University Advisory Council on Teaching,** 2004-2007.
- **Atlanta-area advanced high school and introductory college biology teacher's group:** Initiated, organized, and led to conduct workshops that address issues of concern to both groups, 1992-1994.
- **Writing Across the Curriculum program:** One of 20 Emory faculty who received funds to spread the good word about the value of writing, 1992-1993.

#### VI. Interdisciplinary Faculty and Student Development:

- **Founding member of IDEAS: InterDisciplinary Exploration and Scholarship,** 3-year fellowship for 30 undergraduates that integrates liberal arts learning, living, and community to catalyze integrated thinking across campus at all levels.
- **Minor in Science & Society and major in Interdisciplinary Studies with a science and society concentration:** Developed these new programs in IDS and advise students interested, 2009-.
- **Biology Honors Coordinator:** Developed and lead new curriculum for all 20-30 seniors doing a biology honors thesis in different labs in any given year, 2010-.
- **Engineering Life:** undergraduate/graduate course helped develop, teach and obtain funding (from National Academies Keck Futures Initiative).

As Director of the Program in Science & Society, developed and coordinated the following activities in collaboration with other programs (for details see [www.scienceandsociety.emory.edu](http://www.scienceandsociety.emory.edu)).

- **Ethics & Belief: An Interdisciplinary Exploration**, at the US Air Force Academy, faculty development seminar to bring Emory approaches to a new venue and audience, 20 faculty from 10 different departments and programs, series of 6 lunches, 2008.
- **Course/Internship in Addiction and Depression**, funded by Engelhard/AAC&U as one of 7 universities nationwide addressing the increase in destructive behaviors in college students, collaboration with Counseling Center, Ethics Center, Residence Life, 2005-2008.
- **Facilitating faculty development in Emory Tibet Science Initiative** to develop and teach comprehensive science curriculum to Dalai Lama's monks and nuns with Dean's Office, NBB, Psychiatry, Biology, Religion, 2005-.
- **Neuroscience and Art**: Brought together faculty from across the university to explore cutting-edge research and ideas in how we perceive art, led by Robertson Professor of Science & Society and guest art historian from Columbia, David Freedberg, Spring, 2006.
- **Science, Culture, & Society Minor**: with Institute for Liberal Arts, designed and implementing new undergraduate minor, 2003-
- **Bioethics Program**: with Health Sciences and Center for Ethics, designing and implementing an Emory program in bioethics to include a Masters degree and a research program.
- **Addiction Seminar**: with the School of Public Health and the Center for Health Culture and Society, weekly meeting of faculty (and an undergraduate fellow) from across the university, including Medicine, Biology, German Studies, Public Health, History, and Psychology, to exam addiction, its history, definition and studies. Led to current development of an NIH Program Grant in Persistent Smoking, 2000-.
- **Science and Religion**: with colleagues in Physics and Religion, coordinated and organized a number of projects, including several weekly semester-long seminars with faculty and undergraduates from across the university that culminated in public forums, as well as a semester of lunches with faculty and graduate students discussing end-of-life issues, 1999 and 2000, 2002, and 2006.
- **Race, Health, and Society**: with the African American Studies Program organized this seminar which explored the science, history, anthropology, and sociology of race and health, included undergraduates, graduates, and faculty, representing 12 different departments and programs; led to a working group developing potential research grants in the area of stress, race, and chronic disease, 2001.
- **Environment Across the Curriculum, Piedmont Project**: helped coordinate a monthly interdisciplinary seminar and run a number of activities resulting in several new or reshaped courses that now integrate environmental issues, includes courses in Theology, Law, Public Health, English, and Chemistry (see <http://www.emory.edu/college/scienceandsociety/EATC/in-dex.htm>), 2001-2007.
- **Consciousness**: coordinated weekly seminars in Spring 2002 with a dozen faculty from diverse departments and schools; included discussions on dolphin intelligence, synesthesia, and different theories of consciousness (see <http://www.emory.edu/college/scienceandsociety/-consciousnessTOC.htm>).

## VII. Public Science Education and Outreach:

- **QUEST Evening at Emory program in science and Buddhism**, 2010.
- ***Above the Genome***, Emory Science & Society: Museum of Glass, Tacoma, WA, (Nov 26-28, 2010), science and art collaboration which is touring the US.
- **Café Scientifiques**: with Georgia Tech and Fernbank Science Museum at the Indie Café in Decatur, a series of 4-6 informal coffees on climate and climate change 2007, sustainability, 2009.
- Led a discussion on Bioethics at the **Limmud Jewish Cultural Festival**, March, 2009.
- **Public talks by Robertson Professors in Science & Society**: for example, poet Marilyn Nelson on George Washington Carver, Historian Marjorie Lorch, 'The Multilingual Brain'; Jules Pretty, 'Agri-culture', 'Green Exercise'; Greg Bear, 'Science and Power'.
- **Science, Ethics, and Society**: Collaboration with the Emory Center for Ethics, which develops programs and events in bioethics for the Emory community and beyond.
- **Science in Your Life**: Coordinated this radio show/website project that aired on Atlanta Public Radio; interviews with scientists on the radio are extended and expanded on the website, 2000-2003. Currently reviving for iTunes U and other outlets, 2009.
- **Kidsvision**: Coordinated this project in which Emory students developed science projects with Atlanta-area 5<sup>th</sup> and 6<sup>th</sup> graders—projects that those students then taught to public school 2<sup>nd</sup> graders and other visitors to the SciTrek or Fernbank Science Museum, 2002-.
- **Hybrid Vigor**: Organize this student-run, science and society magazine designed to connect science issues to the general public.
- **Science Drama**: sponsor professional actors doing contemporary plays with science themes, followed by discussion with actors, director, and relevant scientists—including *Copenhagen* and several other plays.

## VIII. Symposia/Science/Art Events Organized

- **SERCEB/Emory Dual Use Ethics Roundtable**, for Emory graduate students and postdocs to discuss issues of dual-use research and their place at Emory (with Center for Ethics, schools of public health and medicine), 2008.
- **Performance art model for science education**, with Emory Center for Creativity and Art, artists Lelavision and David Lynn (chair, Chemistry), developing ways of using performance to reach people of all ages with scientific knowledge; one performance in pollination, another under development in life's origins and evolution, 2008-
- **Drama/science collaborations** with Theater Emory and Out of Hand Theater, annual projects that use drama to communicate science, current one on Frans de Waal's work, 2009.
- **Current Issues in Science and Religion Roundtable**, by invitation from the Ford Foundation, hosting with Gary Laderman (chair of Religion) a group of Emory and international scholars to identify key issues in science and religion, 2009.
- **Depression: Perspectives from Traditional Tibetan Medicine and Contemporary Western Medicine**, 2007.

- **Understanding the Mind Inside and Out: Bridging Buddhism and Modern Science:** Featured two Westerners trained in Tibetan Buddhism exploring issues in mind and body, Fall, 2006.
- **Mind-Body Connections: Past, Present and Future:** Featured Pema Dorjee, physician of the Dalai Lama; Robertson Professor Anne Harrington, Harvard historian of medicine; and Charles Raison, Emory psychiatrist, discussing these issues with ~350 people from the Atlanta area, Fall 2005.
- **Water in Our Lives:** GA Tech president, Sierra Club, in-town neighborhood representatives, Emory scholars discussing issues of water in Atlanta in a panel, which followed a daylong discussion of water in politics, religion, science, and teaching.
- **Genetically Modified Organisms: Our Genes, Our Futures:** integrated this public symposium with an undergraduate course on GMO; symposium featured David Suzuki, IP lawyer, owner of a GM-seed company, and a molecular cloner.
- **The 4<sup>th</sup> National Undergraduate Bioethics Conference:** brought together over 150 students and faculty from more than 30 institutions to discuss a broad range of bioethics issues, 2001.
- **Second Burke Nicholson Symposium:** "Science and Religion: Perspectives on Death and Prolonging Life" for Atlanta Community, 2001.
- **First Burke Nicholson Forum:** "Science & Religion: Perspectives on Suffering and Healing"
- **Southeastern Developmental Biology Conference:** Organized at Emory, 150 people over 3 days, 1998.
- **Undergraduate Research Symposia,** coordinator, 50-75 Emory undergraduate researchers present their work to the community, 1993-1996.
- **Association of Biology Laboratory Educators,** Co-organizer at Emory, 1994.

#### **IX. Presentations/Invited talks**

- "What Teaching Science to Buddhist Monks Taught Me about Science," University of Washington, Department of Biochemistry, July, 2016.
- Presented the inaugural Paul M. Fernhoff Memorial Lecture in Science and Ethics, "Science, Religion and the New Diseases: A Southern Jew Meets the Dalai Lama", October 2015
- Bioethics mini-mester, teaching at Atlanta Jewish Academy, March, 2015
- "The Dalai Lama and Evolution", invited to speak at the Emory 1836 club on globalization and education in the modern world, March 2015.
- "Writing an Effective Teaching Statement", led workshop for Office of Post-Doctoral Education, 30 fellows attended, March, 2015.
- "Discovery Dialogue: Creating Life in the Lab"; invited member of panel as part of Atlanta Science Festival, March, 2015.
- Emory-Tibet Science Initiative: Sustained Engagement Between Contemplatives and Scientists Offer Insights for Contemplative Science, Mind and Life International Symposium for Contemplative Studies, October, 2014

- “Freshmen, monks, docs, and post-docs: What I’ve learned in a quarter century of teaching without PowerPoint.” Arizona State University, 21<sup>st</sup> Undergraduate Research Symposium, Keynote, April 2014.
- The Ethics of Stem Cell Research, The Bioethics Society, Emory, 2013.
- Science and religion in my personal journey, Inter-religious Council, **Emory**, 2013.
- Addiction: What is a disease and why? Future **Emory** students lecture, April, 2013.
- ‘Teaching Science with Faith in Mind’, **United States Air Force Academy**, Oct 2012.
- ‘Addiction: an interdisciplinary approach’, **Emory Pre-Freshman Lecture**, 2012.
- ‘Stem cells, ethics, and society’, **Dunwoody United Methodist Church**, Dunwoody, GA, 2012.
- ‘Perspectives in Mental Health’, moderator of panel of Emory student group Sacred Artistry, Spring, 2012.
- ‘Piedmont II: Next steps in sustainability’, moderator of Emory panel, Nov, 2011.
- ‘Freshmen, Post-docs, Cadets, and Monks: My Journey into Learning How to Teach’, **Iowa/Nebraska Physiological Society meeting**: keynote speaker, Oct, 2011.
- AAAS 7<sup>th</sup> World Congress on Mummy Studies, ‘Interpreting the Life of the Carlos Museum’s Old Kingdom Mummy’, with M Osigbeme, CP Ramsey, M Tansey , J Robinson, and J Kingston, June, 2011.
- Woodward Academy**, Atlanta, GA, ‘Sustainability in the Curriculum’, April, 2011 and 2012.
- Federation of American Societies for Experimental**: ‘Fellowships in Research and Science Teaching: Advancing the Postdoctoral Training Experience’, with J Mercante, J Pulliam, JK Haynes, DC Eaton, Washington, DC, April, 2011.
- **Association for Integrative Studies** Conference, ‘Interdisciplinary Approaches to Integrating Ethics and Sustainability- with Peter Wakefield, Ellen Spears, and Kevin Corrigan, San Diego, CA (October, 2010)
- **Emory Tibet/Science Initiative**: interview on the show ‘Godspeed’ on the Progressive Radio Network, 2010.
- Clayton State University **Bioethics in your life**: invited talk to the biology honors club at, Feb, 2010.
- ‘God, Nature and Design: Historical and Contemporary Perspectives’, Ian Ramsey Center, University of Oxford **‘Teaching Evolution’**, with David Westmoreland at the, July, 2008.
- Darwin and the nature of scientific evidence**, two lectures in IDS200 course on the nature of evidence, 2008.
- United States Air Force Academy **A World Without Science**, Biology honors society , 2008.
- AAC&U Bringing Theory to Practice Meeting, New Orleans, 2007, **Bringing Theory to Practice: Presentations from the Field**,
- The Ethics of Conflict of Interest**, with Brenda Seiton and Kathy Kinlaw, Emory SOM junior faculty development course.
- Humans' Effect on the Water Cycle**, Mary Lin Elementary School, Atlanta, 2007.
- How Students Learn: Employing Sound Science in the Classroom**, facilitated with Gordon Churchward for the Emory Univ Advisory Council on Teaching, February, 2007.



- The Moral Status of Animals:** with Kevin Corrigan and Ellen Spears, Fox Center for Humanistic Inquiry, 2007.
- Defining Identity,** Institute for the Liberal Arts, Emory, 2007.
- Professional Skills Ethics Workshop** at the Neurosciences Meeting, Atlanta, October, 2006
- Evolution and Society Symposium talk,** Emory, 2006.
- **The Science Crisis and the Death of the Outdoors,** Emory, Environmental Studies Seminar, November, 2006.
- Ethics of Stem Cells,** Georgia Economic Developers Association, September, Savannah, 2006.
- Growing good people: Science, the Academy, and the Future:** United States Air Force Academy, Dept of Biology, August, 2006.
- Research ethics in industry:** Zygogen, Inc., Atlanta, GA, June, 2006.
- Mind/Body and Defining Health:** CDC, Atlanta, GA, April, 2006.
- Teaching research ethics: why bother:** Georgia Institute of Technology, Atlanta, GA, 2006.
- Stem cell ethics:** Dunwoody United Methodist Church, 2005.
- Stem cells and you:** Life Enrichment services, continuing education for the elderly, 2005.
- Who are you: genes and identity:** Fernbank Science Museum as part of the Genomic Revolution Series, October, 2004.
- Teaching Portfolio workshop: Office of Postdoctoral Education:** November, 2004
- National Science Teachers Association:** A Model for the Next Generation of Science Educators: Bringing Postdoctoral Scientists into the Classroom, L Morris, C Giver, D. Holtzclaw, R Pyatt, and A Eisen, April 2004.
- Eisen, A.,** JK Haynes, P. Gunter-Smith, I. Finkelstein, D. Potter, S. Ibim, A. Aduonum, T. Hendrickson, and RB Gunn, “A Unique Postdoctoral Research and Teaching Experience in Atlanta”, FASEB 2002, San Francisco, CA.
- Workshops on Research Ethics:** to Georgia Tech’s NSF-funded summer undergraduate researchers, 1999-2001.
- The Human Genome Project, and other issues in bioethics:** Trinity Presbyterian Church, 2001
- “Should the prolonging of life be far away from basic scientists’ thinking?”** Second Burke Nicholson Symposium on Science & Religion, Emory, 2001.
- Stem Cells and the Human Genome Project:** Atlanta Jewish Community Center, 2001.
- Bioethics in Society:** SciTrek Science Museum Youth Program: Talk to small groups of junior and high school students about the ethics of science, 1998-.
- Modern Genetics and the Body:** Nexus Art Gallery, 1999.
- Research Ethics:** Emory University, Neurosciences and Behavioral Biology Research Course, 2001.
- Ethics of stem cell research and researchers:** Georgia Tech, Science, Technology and Human Values course, October, 2001.
- “Getting Large Classes to Think”:** Invited workshop, Emory Theory, Practice, Learning Program, 1998.

- **“Curriculum Reform in Undergraduate Biology”**: Invited workshop, UN-Lincoln, 1997.
- **“Teaching Interactive Biology”**: Invited workshop, UN-Lincoln, 1997.
- **“Teaching Biology to the Masses”**: Presentation at International Society for Exploring Teaching Alternatives meeting, 1995.
- **“A holistic approach to lab teaching using sea urchins as an example system”**: Association of Biology Laboratory Educators meetings, Emory, 1994.

## **X. Committees**

### **University**

- Campus Life/ Faculty Committee, 2011-2014
- Teaching and mentoring consultation program through the Center for Faculty Development

### **Graduate School**

Ethics curriculum development (Program for Scholarly Integrity), 2010-

### **Center for Ethics**

Masters of Bioethics Steering Committee, 2010-

### **College**

- College Senate: 2014-2016
- GovComm Governance Committee, 2013-2014
- Honor Council member, 2012-2013
- Chief College Marshal for graduation, 2013-
- College Climate Change Committee, Chair, 2013-
- Student Hardship committee, 2011-
- GovComm Campus Life Committee, 2011-
- Sustainability Minor Committee, 2009-
- On Recent Discoveries of Emory Researchers fellows selection committee, 2003-
- Lecture Track Promotion Committee, Chair, 2008-2009, ad hoc 2010-
- Winship Award Selection Committee, 2008
- Senior Orator Selection Committee, 2008-
- Joel Gellar Scholarship Selection Committee, 2000-
- Goldwater Scholarship Selection Committee, 2005-
- On Recent Discoveries of Emory Researchers fellows selection committee, 2007-

### **Departmental**

- Interdisciplinary Studies advising committee
- IDS curriculum committee
- Direct honors in biology

## **Committees (past)**

### **National**

- Southeastern Regional Center of Excellence for Emerging Infections and Biodefense, Policy Ethics and Law Core, Multi-Institutional grant from the National Institute of Allergy and Infectious Diseases, 2008-2013

### College

- Faculty Science Council: as director of the Program in Science & Society
- Executive Committee, Emory College Faculty Science Council
- Fundraising Committee for College Science Programs
- Admissions and Scholarship Committee
- Emory Scholars Selection Committee
- Nominations Committee for College Committees
- Deans' Joint Activities Committee

### University

- University Teaching Fund Committee, Chair
- Conflict of Interest Committee, School of Medicine

### Departmental

- Curriculum Committee

### **XI. Other Service**

- BASE, Bridging Academics, Service, and Ethics, program I initiated and lived in with my family on campus with 24 upperclassmen, 2003-2005.

### **XII. Grants**

#### Internal

- Religion and the Human Spirit Strategic Plan**, ~\$350,000 over three-five years to support hiring two post-doctoral fellows in ethics, religion, and science, and to increase education activities in Emory and greater community and support the ORDER program (with David Lynn and Gary Laderman), 2005.
- Instructional technology grant** to support IT and science education: \$33,000, 2006.
- Grant to support science education and the media**: \$80,000 from the provost's office, 2006.
- Science and Religion scholarship**: with Gary Laderman in Religion, research seed grant, Emory College, \$10,000.
- Biosocial impact of emerging disease**: research seed grant from College with Les Real, Biology, and Kate Winskell, RSPH, \$20,000.
- Preparing Future Science Faculty: Developing an optional certificate program in teaching science for graduate and postdoctoral associates**. University Teaching Fund, \$19,000 (with Pat Marsteller).
- Developing a science writing program**. University Teaching Fund, \$6,100. (with Sheila Tefft, Journalism).
- Developing a Bioethics Center at Emory**: Woodruff Health Sciences Fund, \$250,000.

- Extend the Environment Across the Curriculum Program to include graduate students and new courses:** Quadrangle Fund, \$24,000.
- Revamp the NIH-required Ethics of Research:** from University Teaching Fund, \$9000, 2001.
- Develop Environmental Education Across the Curriculum:** with Peggy Barlett (Anthropology) to University Teaching Fund for \$58,500 in 2000.
- Burke Nicholson Symposium Fund:** with Gary Laderman (Religion) to support the first Science and Religion symposium on healing and suffering, \$8000 from the Graduate School, 2001.
- Burke Nicholson Symposium Fund:** with Gary Laderman (Religion) to support the second Science and Religion symposium on prolonging life, \$8000 from the Graduate School, 2000.

### **External**

- **National Academies Keck Futures Initiative**, Developing a bench-side ethics and community-based participatory research training program in synthetic biology, with Deboleena Roy in Women's Studies and Ichiro Matsumura, School of Medicine, \$75,000, 2010-11.
- Institutional Research and Academic Career Development, NIH, NIGMS, MORE** post-doctoral research and teaching training grant. \$12.7 million over 5 years (with Doug Eaton in Physiology), 2005-2010, 2010-2015, 2015-2020.
- Second year at Emory Living and Learning experience: an interdisciplinary seminar course/internship in addiction and depression:** Engelhard Foundation, \$90,000 + equal match from Emory, 2005-2007.
- Fellowship in Science and Religion** to support faculty, student course and public symposium in Mind, Medicine, and Healing, \$70,000, Center for Theology and the Natural Sciences.
- "Experimental Biology (Cell Biology, Developmental Biology and Molecular Modeling)":** Research Experiences for Undergraduates, \$161,000 from National Science Foundation, 1999-2001.
- "Developing an undergraduate project lab in developmental biology":** Instrumentation and Laboratory Instruction grant to develop advanced lab course, \$56,300 from National Science Foundation, 1994.

### **XII. Reviewer for, Consultants with Journals**

- Science and Engineering Ethics*
- Philosophy, Science, and Law*
- Journal of American College Health* (Consulting Editor)
- Cell Biology Education: Life Sciences*
- PLoS Biology*
- Journal of Medical Ethics*

## Texts, Books

- Benjamin Cummings for *Molecular Biology of the Gene*, 5<sup>th</sup> edition
- ME Sharpe, *Encyclopedia of the Environment*
- W.H. Freeman Publishers, Cox/Doudna/O'Donnell's *Molecular Biology*
- MacMillan Education

## Grants

- Emory Global Health Institute proposals
- National Science Foundation Math and Science Education proposals
- Dual-use ethical evaluation of basic science research (NIH RO1) proposals through the Southeastern Regional Center of Excellence for Biodefense and Emerging Infections

## Departments

- External reviewer for New College, University of Alabama, 2010
- External reviewer for Morehouse College Dept of Biology, 2009

## Publications

### **I. Books**

- **A. Eisen** and Yungdrung Konchok, *The Enlightened Gene: How Tibetan Monks and American Scientists are Transforming the Way We Think About Science and Religion*. Lebanon, NH, University Press of New England, ForeEdge imprint, in press.

### **II. Science Research Publications**

- Reines, V., K.Charen, T. Rosser, **A. Eisen**, S. L. Sherman<sup>1</sup>, J. Visootsak, Parental Perspectives on Pharmacological Clinical Trials: A Qualitative Study in Down Syndrome and Fragile X Syndrome (submitted)
- Wolpe, P.R., K. S. Rommelfanger, and the Drafting Delegates of the BEINGS Working Groups (**A. Eisen**), The BEINGS Conference: Statement of Principles for the Use of Cellular Biotechnologies (submitted).
- Banja J., **A. Eisen**, Ethical perspectives on knowledge translation in rehabilitation, *Archives of Physical Medicine and Rehabilitation*, 94(1), S55-60, 2013.
- **Eisen A.**, Utlely R.T., Nourani A., Allard S., Schmidt P., Lane W.S., Lucchesi J.C., Cote J. The yeast NuA4 and Drosophila MSL complexes contain homologous subunits important for transcriptional regulation. *J Biol Chem*. Oct 17 [epub ahead of print], 2001.
- **Eisen, A.**, and Lucchesi, J. Unraveling the role of helicases in transcription. *BioEssays* 20, 634-641. 1998.
- Smith, E., **Eisen, A.**, Gu, W., Sattah, M., Pannuti, A., Zhou, J., Cook, R., Lucchesi, J., and Allis, D. ESAI is a histone acetyltransferase that is essential for growth in yeast, *Proc. Natl. Acad. Sci. USA* 95, 3561-3565, 1998.
- **Eisen, A.**, Sattah, M., Gazitt, T., Neal, K., Szauter, P., and Lucchesi, J. A novel DEAD-box RNA helicase exhibits high sequence conservation from yeast to humans. *Biophys. Biochim. Acta*, 1397, 131-136, 1998.
- Zhou, S., Yang, Y., Scott, M., Pannuti, A., Fehr, K., **Eisen, A.**, Koonin, E., Fouts, D., Wrightsman, R., Manning, J., Lucchesi, J. Male-specific lethal 2, a dosage compensation

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### III. Education Research Publications:

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•**Eisen, A.** and Westmoreland, D. *The Living Staircase*, a conceptual introductory biology text, Kendall/Hunt Publishing Company, Dubuque, IA, 1998.

•**Eisen, A.**, As part of the Emory-Tibet Science Initiative, I have written several primers (5 primers each in the area of the Life Sciences, and two in Neurosciences), which are being translated into Tibetan and used for teaching the curriculum we have developed to the 20-30,000 Tibetan Buddhist monks and nuns in exile in India. Each primer is about 20,000 words with about 50 images and illustrations. The status of the project so far:

--Life Sciences Primer I: *Evolution*, complete and translated, 2009.

--Life Sciences Primer II: *Genes and Cells*, complete and translated, 2010.

--Life Sciences Primer III: *Physiology and Development*, complete and translated, 2011.

--Life Sciences Primer IV: *Disease, Immunology, and Epidemiology*, complete, in translation, 2012.

--Life Sciences Primer V: *Synthesis and Review*, complete, 2012.

--Neurosciences Primer I: *Perception and Vision*, complete, 2011

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•**Eisen, A.** "The Human Genome Project," in *Encyclopedia of Religion and American Cultures*, Laderman, G. and Leon L., eds., ABC-CLIO, 2003.

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- **Eisen, A.** and Junjian Huang, Learning science by engaging religion: A novel two-course approach for biology majors, *College Teaching*, 62:1, 25, 2014.
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- **Eisen, A.** and Barlett, P. The Piedmont Project: Fostering Faculty Development Toward Sustainability. *Journal of Environmental Education* 38(1), 25-36, 2006.
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- JD Holtzclaw, **A. Eisen**, M Penumetcha, E Whitney, S Kimbro, Teaching Bioinformatics at a Minority Institution, *CBE Life Sciences Education*, 5, 52-64, 2006.
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- JD Holtzclaw, LG Morris, R Pyatt, CS Giver, J Hoey, JK Haynes, D Eaton, R Gunn, and **A Eisen**. FIRST: A model for developing new science faculty, *Journal of College Science Teaching* 34, 24, 2005.
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## V. Other publications

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