

CURRICULUM VITAE
Michael Kalichman

Department of Pathology
University of California, San Diego
La Jolla, California 92093-0612

mkalichman@ucsd.edu
858-822-2027

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EDUCATION

- 1975 B.A., Specialization in Bioengineering
 Department of Applied Mechanics and Engineering Sciences
 University of California, San Diego, California
- 1977 M.Ap.Sc., Institute of Biomedical Engineering
 Department of Electrical Engineering
 University of Toronto, Ontario, Canada
- 1980 Ph.D., Department of Pharmacology
 University of Toronto, Ontario, Canada

CURRENT APPOINTMENTS

- 2021-Present Professor Emeritus, UCSD

PAST RESEARCH, ACADEMIC, AND ADMINISTRATIVE APPOINTMENTS

- 1981-1982 Postdoctoral Associate (National Research Council)
 Naval Health Research Center, San Diego
- 1982-1983 Postdoctoral Scholar
 Department of Neurosciences, UCSD
- 1983-1984 Research Physiologist
 Neurology Research, VA Medical Center, San Diego
- 1984-1985 Postgraduate Research Anesthesiologist
 Department of Anesthesiology, UCSD
- 1985-1986 NIH Postdoctoral Trainee
 Department of Pathology, UCSD
- 1986 Assistant Research Anesthesiologist
 Department of Anesthesiology, UCSD

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| 1986-1999 | Research Pharmacologist Research, VA Medical Center, San Diego |
| 1987-1994 | Assistant Professor in Residence Department of Anesthesiology, UCSD |
| 1994-2000 | Associate Adjunct Professor Department of Pathology, UCSD |
| 1997-2021 | Director Research Ethics Program, UCSD |
| 2000-2021 | Adjunct Professor Department of Pathology, UCSD |
| 2004-2009 | Co-Chair Responsible Conduct of Research Education Committee (Association for Practical and Professional Ethics) (formerly, President, Responsible Conduct of Research Education Consortium) |
| 2004-2021 | Co-Founder and Director (eff. 2010) San Diego Center for Ethics in Science and Technology |
| 2005-2011 | Co-Chair Embryonic Stem Research Oversight Committee, UC San Diego (UCSD) |
| 2006-2021 | Director San Diego Research Ethics Consortium |
| 2009-2012 | Co-Founder and Co-Leader National Advisory Panel on Research Integrity |
| 2010-2015 | Member, Joint Steering Committee for China Association for Science and Technology (CAST) and the American Association for the Advancement of Science (AAAS) to coordinate work on ethics in science for China and the U.S. |
| 2010-2021 | Director Ethics Service, UCSD Clinical and Translational Research Institute |
| 2011-2014 | Member, Clinical Research Ethics Key Function Committee, National Clinical and Translational Science program |
| 2012-2021 | Member, External Advisory Board, Virginia Commonwealth University Center for Clinical and Translational Research |
| 2013-2019 | Member, Board of Trustees, Reuben H. Fleet Science Center |
| 2015-2021 | Associate Editor, Accountability in Research |

RESEARCH INTERESTS

As a postdoctoral researcher and Assistant Professor in the UC San Diego Department of Anesthesiology (1984-1994), the focus of my research program was the mechanisms of local anesthetic-induced nerve injury. After my transfer in 1994 to the Division of Neuropathology in the UCSD Department of Pathology, my research program shifted to studies of diabetic neuropathy. The two principal themes of my research were: (1) the role of nerve blood flow in diabetes-induced neuropathy and (2) the interdependence of axonal and Schwann cell injury in the neuropathic complications of diabetes.

Beginning in 1990, I developed a secondary and now primary role in "research ethics." This role is based on the premise that the agendas for responsible conduct of research training would benefit from the perspectives of experienced scientists. Based on this focus, I was appointed Director of the UC San Diego Research Ethics Program in 1997. In addition to this leading role at UCSD, I initiated a research program to assess the effectiveness of teaching responsible conduct of research (funding from NIH and NSF), and collaborated with colleagues at numerous institutions, both nationally and internationally. I also helped to found and then lead the first non-governmental organization with a primary focus on research ethics education, the Responsible Conduct of Research Education Consortium (RCREC). The RCREC has since evolved and is now known as the Research Integrity Scholars and Educators (RISE) group of the Association for Practical and Professional Ethics. In San Diego, I was the founding director of the San Diego Research Ethics Consortium, and co-founding director of a public engagement project: The Center for Ethics in Science and Technology. The ongoing focus of my scholarship is goals, methods, and outcomes for approaches designed to foster a culture of ethics in research.

ACADEMIC SERVICE

PAST

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| 1995-1998 | Member, Core Curriculum Committee Neurosciences Graduate Program, UCSD |
| 1995-2001 | Member, Minor Proposition Committee Neurosciences Graduate Program, UCSD |
| 1997-2002 | Member, Executive Committee Molecular Pathology Graduate Program, UCSD |
| 1997-2021 | Director, Research Ethics Program; Web site, resources, staff to assist School of Medicine and General Campus with various dimensions of research ethics and the responsible conduct of research; assistance with responding to allegations of research misconduct; resource for faculty, students, and staff regarding concerns about the conduct of research |
| 1998-2001 | Member, Executive Committee Neurosciences Graduate Program, UCSD |
| 1998-2001 | Graduate Advisor Neurosciences Graduate Program, UCSD |
| 1998-2005 | Leading of ad hoc committee to revise UCSD Integrity of Research Policy and Procedures |
| 1998-2009 | Member, Career Advisory Committee Neurosciences Graduate Program, UCSD |
| 1998 | Chair, Core Curriculum Committee Neurosciences Graduate Program, UCSD |
| 2000 | Chair, Pathology ad hoc committee |
| 2000 | Member, Search Committee for Director for Animal Care Program |
| 2000-2001 | Ex Officio member, Animal Care Advisory Committee |
| 2002 | Chair for ad hoc committee charged with inquiry into allegation of research misconduct |
| 2002-2003 | Member, ad hoc committee charged with resolving data ownership dispute |
| 2003-2005 | Director, Pathology Research Lecture Series |
| 2003-2009 | Member, UCSD Investigations Workgroup |
| 2004 | Chair, ad hoc committee for inquiry into allegation of research misconduct |
| 2004 | Participant, SIO-SOM Collaboration Mini-retreat, Oct. 7, 2004 |
| 2004-2005 | Member, Drug Importation Brainstorming Group, UCSD |

- 2005-2021 Member (and Co-chair, 2005-2011)
Embryonic Stem Research Oversight Committee, UC San Diego (UCSD)
- 2005-2021 Member, Stem Cell Oversight Working Group, UCSD
- 2006-2008 Founding Co-Chair, UCSD Ethics Program Rollout Working Group; appointed by Chancellor to provide advice on appropriate actions to maintain and promote an ethical culture at UCSD
- 2007-2008 Member, Design, Biostatistics, and Ethics group for NIH Clinical and Translational Science Award grant application
- 2007-2008 Member, Stem Cell Derivatives Committee
- 2007-2008 Member, Working Committee, Novel Clinical Applications of Stem Cells
- 2007-2010 Member and Chair, Reuben H. Fleet Science Center Institutional Review Board, San Diego, CA
- 2010-2012 Chair, Joint Academic-Administrative Committee for University Ethics Center
- 2011-2013 Member, Enterprise Risk Management Committee

GRANT AND CONTRACT FUNDING (SELECTED)

- 1981-1982 *Anticonvulsant and hypnotic properties of the benzodiazepines*
(National Research Council)
Postdoctoral Associate
- 1983-1984 *Efficacy and toxicity of antiepileptic drugs* (VA Coop. Study #118)
Research Physiologist
- 1984-1987 *Neurotoxicity of local anesthetics* (NIH NS18715)
Co-investigator (PI: RR Myers)
- 1986-1988 *Structural analysis of the pathological valve mechanism in nerve blood vessels* (Whitaker Foundation)
PI: MW Kalichman
- 1986-1989 *Pathophysiology of nerve injury* (VA)
Co-investigator (PI: RR Myers)
- 1987-1988 *Electrophysiological quantification of nerve injury* (Academic Senate)
PI: MW Kalichman
- 1987-1992 *Local anesthetic neurotoxicity in the spinal cord* (NIH NS24833)
PI: MW Kalichman
- 1987-1992 *Pathogenesis and treatment of nerve injuries* (NIH NS18715)
Co-investigator (PI: RR Myers)
- 1987-1992 *Pathogenesis of toxic and metabolic neuropathies* (NIH NS14162)
Co-investigator (PI: HC Powell)

- 1988-1991 *Chemical and physical neurolysis (VA)*
PI: MW Kalichman
- 1991-1992 *Efficacy and neural toxicity of local anesthetics in diabetes*
Academic Senate
PI: MW Kalichman
- 1991-1994 *Recovery from focal nerve injury (VA)*
PI: MW Kalichman
- 1992-1993 *Osmotic properties of endoneurial fluid (UCSD Academic Senate)*
PI: MW Kalichman
- 1999-2001 *Internet Access to Resources for Responsible Conduct of Research*
Department of Health and Human Services
Principal Investigator (PI): MW Kalichman
- 1999-2001 *Resources and Workshops in Clinical Research Ethics*
Walter and Elise Haas Fund
PI: MW Kalichman
- 2000-2001 *Introductory Guide to the Responsible Conduct of Research*
Office of Research Integrity (ORI), DHHS
PI: MW Kalichman
- 2001-2003 *An Online Resource for Instruction in the Responsible Conduct of Research*
Office for Human Research Protections (OHRP), DHHS
PI: MW Kalichman
- 2001-2004 *An Online Resource for Instruction in the Responsible Conduct of Research*
Office of Research Integrity (ORI), DHHS
PI: MW Kalichman
- 2001-2007 *Training in Clinical Research Ethics (NIH K01 AI01591)*
Department of Health and Human Services (DHHS)
PI: MW Kalichman
- 2002-2003 *IRB Enhancement Grant*
National Institutes of Health
Subcontract: MW Kalichman (PI: E Holmes)
- 2002-2004 *Biotechnology and Bioethics: Challenges to Innovation*
Department of Energy
Co-Investigator: MW Kalichman (PI: E Frieman)
- 2002-2005 *An Online Resource for Instruction in the Responsible Conduct of Research*
Department of Energy
PI: MW Kalichman
- 2003-2012 *Ethics Center Grants*
Legler Benbough Foundation, Parker Foundation, Richmond Foundation,

- Dickinson Foundation
PI: MW Kalichman
- 2004 *Research on Research Integrity Conference Grant*
Office of Research Integrity (ORI), DHHS
PI: MW Kalichman
- 2007-2011 *Standards of Scientific Conduct (NIH R01 NR009962)*
Department of Health and Human Services (DHHS)
PI: MW Kalichman
- 2010-2021 *Clinical and Translation Science Awards*
National Institutes of Health
Co-Investigator: MW Kalichman (PI: G. Firestein)
- 2011-2015 *Integrating Ethics Education: Capacity-Building Workshops for Science and Engineering Faculty*
National Science Foundation
PI: MW Kalichman
- 2014-2017 *Characterizing Privacy Perceptions and Risks in HIV Molecular Epidemiology*
National Institutes of Health
Co-PI: MW Kalichman
- 2015-2020 *The Research Ethics Education Program in Jordan*
National Institutes of Health
Co-Investigator: MW Kalichman (PI: W. Al-Delaimy)
- 2016-2017 *Promoting Research Integrity in Collaboration with the Asia Pacific Region*
Office of Research Integrity
PI: MW Kalichman
- 2019-2021 *Empowering Faculty to Cultivate a Culture of Ethics in Engineering*
National Science Foundation
PI: MW Kalichman

BIBLIOGRAPHY

Publications

1. Kalichman MW, WM Burnham (1980): Locomotor and convulsive responses to picrotoxin in amygdala-kindled rats. *Exp Neurol* 70: 167-172.
2. Kalichman MW, WM Burnham, KE Livingston (1981): Pharmacological investigation of gamma-aminobutyric acid (GABA) and the development of amygdala-kindled seizures in the rat. *Exp Neurol* 74: 829-836.
3. Kalichman MW, KE Livingston, WM Burnham (1982): Pharmacological investigation of gamma-aminobutyric acid (GABA) and fully-developed generalized seizures in the amygdala-kindled rat. *Neuropharmacology* 21: 127-131.
4. Kalichman MW (1982): Pharmacological investigation of convulsant gamma-aminobutyric acid (GABA) antagonists in amygdala-kindled rats. *Epilepsia* 23: 163-171.
5. Kalichman MW (1982): Neurochemical correlates of the kindling model of epilepsy. *Neurosci Biobehav Rev* 6: 165-181.
6. Kalichman MW (1985): Anticonvulsant and convulsant properties of flurazepam. *Neuropharmacology* 24: 1127-1130.
7. Myers RR, MW Kalichman, LS Reisner, HC Powell (1986): Neurotoxicity of local anesthetics: Altered perineurial permeability, edema and nerve fiber injury. *Anesthesiology* 64: 29-35.
8. Moss KA, MW Kalichman, VJ Iragui (1986): Differential antiepileptic sensitivity between cortical sites in the rat. *Epilepsia* 27: 209-214.
9. Kalichman MW, HC Powell, LS Reisner, RR Myers (1986): The role of 2-chloroprocaine and sodium bisulfite in rat sciatic nerve edema. *J Neuropath Exp Neurol* 45: 566-575.
10. Kalichman MW, RR Myers (1987): Behavioral and electrophysiological recovery following cryogenic nerve injury. *Exp Neurol* 96: 1-11.
11. Kalichman MW, RR Myers, HC Powell (1988): Pathology of local anesthetic-induced nerve injury. *Acta Neuropathologica* 75(6): 583-589.
12. Powell HC, MW Kalichman, RS Garrett, RR Myers (1988): Selective vulnerability of unmyelinated fiber Schwann cells in nerves exposed to local anesthetics. *Lab Investigation* 59(2): 271-280.
13. Myers RR, MW Kalichman, HC Powell (1988): Neurotoxic effects of 2-chloroprocaine and other local anesthetics, rat. In: *Monographs on Pathology of Laboratory Animals*, TC Jones (ed.) Springer-Verlag.
14. Cole DJ, MW Kalichman, HM Shapiro (1989): Non-linear additive anesthetic effects of nitrous oxide-enflurane combinations. *Anesthesia and Analgesia* 68: 556-562.

15. Kalichman MW, HC Powell, RR Myers (1989): Quantitative histologic analysis of local anesthetic-induced injury to rat sciatic nerve. *J Pharmacol Exp Ther* 250: 406-413.
16. Mizisin AP, MW Kalichman, RR Myers, HC Powell (1990): Role of the blood-nerve barrier in experimental nerve edema. *Tox Pathol* 18:170-185.
17. Cole DJ, MW Kalichman, HM Shapiro, EI Eger 2d (1990): Does 1 + 1 = 2? A continuing debate. *Anesthesia and Analgesia* 70: 126
18. Cole DJ, MW Kalichman (1990): Statistical analysis of nitrous oxide and enflurane interactions - Response. *Anesthesia and Analgesia* 71: 307.
19. Cole DJ, MW Kalichman, HM Shapiro, JC Drummond (1990): The nonlinear potency of sub-MAC concentrations of nitrous oxide in decreasing the anesthetic requirement of enflurane, halothane, and isoflurane in rats. *Anesthesiology* 73: 93-99.
20. Kalichman MW, RR Myers (1991): Transperineurial vessel constriction in an edematous neuropathy. *J Neuropath Exp Neurol* 50: 52-73.
21. Kalichman MW, AW Lalonde (1991): Experimental nerve ischemia and injury produced by cocaine and procaine. *Brain Research* 565: 34-41.
22. Kalichman MW, NA Calcutt (1992): Local anesthetic-induced conduction block and nerve fiber injury in streptozotocin-diabetic rats. *Anesthesiology* 77: 941-947.
23. Kalichman MW, PJ Friedman (1992): A pilot study of biomedical trainees' perceptions concerning research ethics. *Academic Medicine* 67: 769-775.
24. Powell HC, MW Kalichman (1992): Selecting an animal model for diabetic neuropathy. *Proceedings of the Tenth Annual Veterinary Medical Forum, American College of Veterinary Internal Medicine*, pp. 730-733.
25. Mizisin AP, MW Kalichman, NA Calcutt, RR Myers, HC Powell (1993): Decreased endoneurial fluid electrolytes in normal rat sciatic nerve after aldose reductase inhibition. *Journal of the Neurological Sciences* 116: 67-72.
26. Kalichman MW, DF Moorhouse, HC Powell, RR Myers (1993): Relative neural toxicity of local anesthetics. *J Neuropath Exp Neurol* 52: 234-240.
27. Mizisin AP, MW Kalichman (1993): Permeability and surface area of the blood-nerve barrier in galactose intoxication. *Brain Research* 618: 109-114.
28. Kalichman MW (1993): Physiologic mechanisms by which local anesthetics may cause injury to nerve and spinal cord. *Regional Anesthesia* 18 (suppl.): 448-452.
29. Calcutt NA, AP Mizisin, MW Kalichman (1994): Aldose reductase inhibition and nerve blood flow and conduction in experimental diabetes. *Eur J Pharmacol* 251: 27-33.
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31. Kalichman MW (1995): Neurotoxicity of local anesthetics. In (FA deWolff, ed.) *Handbook of Clinical Neurology* 21: 419-431.

32. Kalichman MW, HC Powell, NA Calcutt, AP Mizisin (1995): Mast cell degranulation and blood-nerve barrier permeability in rat sciatic nerve after 7 days of hyperglycemia. *Am J Physiol* 268: H740-748.
33. Brett FM, MW Kalichman, NA Calcutt, AP Mizisin (1996): Effects of seven days of galactose feeding and aldose reductase inhibition on mast cells and vessel morphometry in rat sciatic nerve. *J Neurol Sci* 141: 6-12.
34. Mizisin AP, L Li, M Perello, JD Freshwater, MW Kalichman, L Roux, NA Calcutt (1996): Polyol pathway and osmoregulation in JS1 Schwann cells grown in hyperglycemic and hyperosmotic conditions. *Am J Physiol* 270: F90-F97.
35. Yee TC, MW Kalichman (1997): Effects of aging on nerve conduction block induced by bupivacaine and procaine in rats. *J Peripheral Nerv System* 2: 175-179.
36. Dines KC, AP Mizisin, MC Jorge, KD Nunag, MW Kalichman (1997): Effects of body and hindlimb temperature on laser Doppler blood flow and vascular conductance in rat sciatic nerve and skeletal muscle. *J Neurol Sci* 148: 7-13.
37. Brown S, MW Kalichman (1998): Effects of training in the responsible conduct of research: A survey of graduate students in experimental sciences. *Science and Engineering Ethics* 4(4): 487-498.
38. Kalichman MW, KC Dines, M Bobik, AP Mizisin (1998): Nerve conduction velocity, laser Doppler flow, and axonal caliber in galactose and streptozotocin diabetes. *Brain Research* 810(1-2): 130-137.
39. Kalichman MW, HC Powell, AP Mizisin (1998): Reactive, degenerative, and proliferative Schwann cell responses in experimental galactose and human diabetic neuropathy. *Acta Neuropath* 95(1): 47-56.
40. Mizisin AP, MW Kalichman, M Bache, KC Dines, PS DiStefano (1998): NT-3 attenuates functional and structural disorders in sensory nerves of galactose-fed rats. *J Neuropath Exp Neurol* 57(9): 803-813.
41. Mizisin AP, MW Kalichman, RS Garrett, KC Dines (1998): Tactile hyperesthesia, altered epidermal innervation and plantar nerve injury in the hindfeet of rats housed on wire grates. *Brain Research* 788(1-2): 13-19.
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43. Dines KC, NA Calcutt, KD Nunag, AP Mizisin, MW Kalichman (1999): Effects of hindlimb temperature on sciatic nerve laser Doppler conductance in control and streptozotocin-diabetic rats. *J Neurol Sci* 163(1): 17-24.
44. Yücel YH, MW Kalichman, AP Mizisin, HC Powell, RN Weinreb (1999): Histomorphometric analysis of optic nerve changes in experimental glaucoma. *Journal of Glaucoma* 8(1): 38-45.

45. Kalichman MW, AP Mizisin, CH Chalk (1999): Classification of Teased Nerve Fibers for Multicenter Clinical Trials. *Journal of the Peripheral Nervous System* 4(3-4): 233-244.
46. Kalichman MW (1999-2001): The online resource for instruction in the responsible conduct of research. [Web site prepared as national resource for RCR instructors under contract to the U.S. Dept. of Health and Human Services Office of Research Integrity, <http://rcr.ucsd.edu>]
47. Kalichman MW, FL Macrina (2000): Assigning Credit for Productivity: How, By Whom, For What, When. In (Davis TP, ed.): *Management of Biomedical Research Laboratories: Proceedings of a National Conference, Oct. 1-3, 1998, University of Arizona, Tucson, AZ.* <http://ori.dhhs.gov/html/programs/biomedses7.htm>
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50. Kalichman MW (2001): *Responsible Conduct of Research: An introductory guide* [submitted to Office of Research Integrity for publication and distribution] 95pp.
51. Kalichman MW, Macrina FL, Kahn JP (2001): Resources for instruction in responsible conduct of research. In: (Steneck NH, Scheetz, MD, eds.) *Investigating Research Integrity: Proceedings of the First ORI Research Conference on Research Integrity*. [available online at: <http://ori.hhs.gov/html/publications/rcri.html>]
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53. Kalichman MW, Macrina FL (2002): RCR101: Selected topics. Seattle, WA, Aug. 15, 2002 [earlier version for El Paso, TX, June 21, 2002] 89 pp.
54. Kalichman MW (2002): Ethical decision-making in research: Identifying all competing interests. *Science and Engineering Ethics* 8: 215-218.
55. Kalichman MW (2003): Book Review: *Integrity in Scientific Research: Creating an environment that promotes responsible conduct*. *JAMA* 289: 2433-2434.
56. Kalichman MW (2003): Ethics in scientific research and higher education: The situation in the United States [Ética en la investigación científica y la educación superior: situación en los Estados Unidos de Norteamérica] In: (Aluja M, Birke A, eds.) *El Papel de la Ética en la Investigación Científica y la Educación Superior*. *Academica Mexicana de Ciencias* [Mexican Academy of Sciences], Tlalpan, México D.F., pp. 77-102.
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58. Kalichman MW (2004): Book Review: (Krimsky S, au): Science in the Private Interest: Has the Lure of Profits Corrupted Biomedical Research? *JAMA* 291: 1776-1777.
59. Kalichman MW, Macrina FL (2004): "RCR 102: Teaching Responsible Conduct of Research: Fundamentals" San Diego, CA, October 28, 2004 89 pp.
60. Kalichman MW, Macrina FL (2004): "RCR 102: Teaching Responsible Conduct of Research: Case Studies (Biosecurity and the changing dimensions of authorship)" San Diego, CA, October 28, 2004 79 pp.
61. Kalichman MW (2005): Surveys as a tool for teaching scientific integrity. In: (Macrina FL) Scientific Integrity. 3rd edition, American Society of Microbiology Press, pp. 297-320.
62. Kalichman MW (2005): Book Review: (Judson HF, au): The Great Betrayal: Fraud in Science. *JAMA* 293: 1524-1525.
63. Kalichman MW (2005): Use and abuse of the Internet for teaching research ethics- Commentary on "Misconceptions and Realities about Teaching Online." *Science and Engineering Ethics* 11: 341-345.
64. Kalichman MW, Hinman LM (2005): Consensus and the search for pluripotent stem cells. *Stem Cell Reviews* 1(4): 287-290.
65. Yücel YH, Gupta N, Zhang Q, Mizisin AP, Kalichman MW, Weinreb RN (2006): Memantine protects neurons from shrinkage in the lateral geniculate nucleus in experimental glaucoma. *Arch Ophthalmol* 124: 217-225.
66. Kalichman MW (2006): Data Management. In: (Kulakowski E, Chronister L, eds.) Part III (Responsible Conduct of Research), *Research Administration and Management*, pp. 491-500.
67. Snyder EY, Hinman LM, Kalichman MW (2006): Can science resolve the ethical impasses in stem cell research? *Nature Biotechnology* 24(4): 397-400.
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71. Kalichman MW, Schwartz PH (2007): Guidelines for hESC Oversight (ESCRO) Committees. In: *Human Stem Cell Manual: A Laboratory Guide* (ed.: J. Loring), Elsevier Press, pp. 397-406.
72. Kalichman MW (2007): Responding to challenges in educating for the responsible conduct of research. *Academic Medicine* 82(9): 870-875.
73. Kalichman MW, Plemmons DK (2007): Reported Goals for Responsible Conduct of Research Courses. *Academic Medicine* 82(9): 846-852.

74. Plemmons DK, Kalichman MW (2007): Reported Goals for Knowledge to be Learned in Responsible Conduct of Research Courses. *Journal of Empirical Research on Human Research Ethics* 2(2):57-66.
75. Powell S, Allison MA, Kalichman MW (2007): Effectiveness of a Short-term Course in the Responsible Conduct of Research for Medical Students. *Science and Engineering Ethics* 13(2): 249-264.
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77. Lammertse D, Tuszynski MH, Steeves JD, Curt A, Fawcett JW, Rask C, Ditunno JF, Fehlings MG, Guest JD, Ellaway PH, Kleitman N, Blight AR, Dobkin BH, Grossman R, Katoh H, Privat A, Kalichman M (2007): Guidelines for the conduct of clinical trials for spinal cord injury as developed by the ICCP panel: clinical trial design. *Spinal Cord* 45(3): 232-42.
78. Kalichman MW (2007): "Research Ethics Instruction: Effective Education and Evaluation for the 21st Century" Cincinnati, OH, February 22 29 pp.
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80. Kalichman MW (2008): "Research Ethics Instruction: Effective Education and Evaluation for the 21st Century" San Antonio, TX, February 21 70 pp.
81. Kalichman MW (2009): Evidence-based research ethics. *The American Journal of Bioethics* 9(6&7): 85-87.
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83. Kalichman MW (2009): Stem Cell Research, Resources for Research Ethics Education <http://research-ethics.net/topics/stem-cell-research>
84. Bertram Gallant, T., Kalichman, M. (2011). Academic Ethics: A Systems Approach to Understanding Misconduct and Empowering Change in the Academy. In Tricia Bertram Gallant (ed.), *Creating the Ethical Academy: A Systems Approach to Understanding Misconduct and Empowering Change in Higher Education*. Routledge, pp. 27-44.
85. Kalichman MW (2011): Overview: underserved areas of education in the responsible conduct of research: authorship. *Science and Engineering Ethics* 17(2):335-9.

86. Kalichman MW (2011): The Problem of Research Misconduct, Ethics Core, National Professional and Research Ethics Portal
<http://nationalethicscenter.org/resources/220>
87. Kalichman M, Bird SJ, Plemmons D (2012): Editors' Overview: Neuroethics: Many Voices and Many Stories. *Science and Engineering Ethics* 18(3):423-432.
88. Kalichman M (2013): A brief history of RCR education. *Accountability in Research*. 20(5-6):380-394.
89. Kalichman M (2013): Rescuing RCR education. *Accountability in Research*. 21(1):68-83.
90. Plemmons DK, Kalichman MW (2013): Reported goals of instructors of responsible conduct of research for teaching of skills. *Journal of Empirical Research on Human Research Ethics* 8(2):95-103.
91. Devereaux M, Kalichman M (2013): ESCRO Committees – Not Dead Yet. *American Journal of Bioethics* 13(1): 59–60. doi: 10.1080/15265161.2013.747311
92. Kalichman M (2013): Why do we teach research ethics? Proceedings from National Academy of Engineering Workshop on Practical Guidance on Science and Engineering Ethics Education. pp. 5-16.
93. Kalichman M, Sweet M, Plemmons D (2013): Standards of scientific conduct: Are there any? *Science and Engineering Ethics* doi: 10.1007/s11948-013-9500-1
94. Kalichman M (2013): What don't we know about RCR education? *ORI Newsletter* 22(1):7-11.
95. Kalichman M (2013): University Partnerships with Corporations. *Rady Business Journal* Winter 2013, p. 20.
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Op-Eds

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4. Hinman LM, Kalichman MW (2005): "The Schiavo case: What can we learn?" Voice of San Diego [<http://voiceofsandiego.com>] April 25.
5. Kalichman MW, Hinman LM (2008): "Both Promise and Peril" Voice of San Diego [<http://voiceofsandiego.com>] March 24.
6. Kalichman MW (2008): "Science and Ethics: Can we do better?" Voice of San Diego [<http://voiceofsandiego.org>] December 1.

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2. Kalichman MW (1999-2021): Research Ethics Program (UCSD) [<http://ethics.ucsd.edu>]
3. Kalichman MW (2002-2005): Responsible Conduct of Research Education Consortium: Online Resource for RCR Instructors [<http://rcrec.org/r>]
4. Kalichman MW (2006-2021): Resources for Research Ethics Education [<http://research-ethics.net>]
5. Kalichman MW (2007-2018): San Diego Research Ethics Consortium [<http://sdrec.ucsd.edu>]
6. Kalichman MW (2008-2021): Center for Ethics in Science and Technology [<http://ethicscenter.net>]

TEACHING, WORKSHOPS, AND SERVICE

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INVITED LECTURES, WORKSHOPS, AND SERVICE – INTERNATIONAL (Selected)

- 12/5/03 Why Teach Responsible Conduct of Research?
Association of Chairs of Departments of Physiology, **St. Kitts, West Indies**
- 8/21/06 Why Ethics? Visiting Professor, Centro de Investigaciones Biológicas del
Noroeste, La Paz, BCS, **México**
- 8/22/06 Publication and Authorship, Visiting Professor, Centro de Investigaciones
Biológicas del Noroeste, La Paz, BCS, **México**
- 8/23/06 Creating an Environment to Foster Research Ethics, Visiting Professor, Centro
de Investigaciones Biológicas del Noroeste, La Paz, BCS, **México**
- 9/19/07 Research Ethics, Sichuan University, Chengdu, **China**
- 9/25/07 Research Ethics Education, Peking University Health Sciences Center, Beijing,
China
- 9/27/07 Research Ethics Education in the U.S.: Why, What, How, and Why Not? Invited
member of AAAS delegation to China-U.S. Workshop on Scientists' Social and
Ethical Responsibilities, Beijing, **China**
- 4/27/09 2-day workshop (4/27 - 4/29), U.S.-**China** Workshop on Ethics Education in
Science, San Diego (20 hrs)
- 7/19/10 Research Ethics Education: What Works? Journal Club, Centre for Biomedical
Ethics, National University of Singapore, **Singapore**
- 7/22/10 Why, What, and How We Should be Teaching about Research Integrity, World
Conference on Research Integrity, **Singapore**
- 7/24/10 International Responsible Conduct of Research Education Workshop, World
Conference on Research Integrity, **Singapore**
- 2/1/11-2/4/11 Host two **Korean** leaders to learn about research ethics by reviewing UCSD
program
- 9/6/11-9/9/11 Full day research ethics workshops, Singapore General Hospital, **Singapore**
- 3/19/12-3/23/12 Ethics and Regulation of Research (5-day workshop) Patient Oriented Research
II, Addis Ababa, **Ethiopia**
- 12/7/12 Q&A, PRIM&R **International** Scholars Visit to UCSD, Balancing Ethics
and Regulations in the International Setting
- 1/14/13-1/18/13 Research Integrity, Workshops for Korean Research Ethics Scholars, Korea
Institute of R&D Human Resource Development, **Korea**
- 1/23/14 Workshop on Research Ethics, Part of 2-day workshop for delegate from
Taiwan
- 1/23/14-1/24/14 Host visit from research ethics leader (with Camille Nebeker), Benjamin Kuo,
Taiwan

- 4/21/14 Workshop on Research Ethics, 5-day workshop for delegation of 10 from **Korea**
- 4/21/14-4/25/14 Research Integrity, Workshops for Korean Research Ethics Scholars, Korea Institute of R&D Human Resource Development, **Korea**
- 10/8/14 Promoting Research Integrity, AAAS and **China** Association of Science and Technology, Washington, D.C.
- 5/1/15 Introduction to Teaching Research Ethics Workshop, **Jordan** Faculty
- 5/29/15 Systemic factors and integrity, UFRJ, Rio, **Brazil**
- 6/3/15 Faculty RCR Mentoring, Research Community, **World Conference on Research Integrity**
- 11/17/15 Introduction to Research Integrity, Delegation from Shanghai, **China** (with School of Global Policy and Strategy), UCSD
- 1/22/16 Introduction to Research Integrity, Henan University, **China** Delegation with UCSD's School of Global Policy and Strategy
- 6/3/16 Teaching Research Ethics, **Jordan** Research Ethics Faculty
- 2/20/17 Asia and Pacific Rim Research Integrity Conference, University of Hong Kong, **Hong Kong**
- 2/23/17 Teaching research integrity in the classroom: Why, what, and how? University of Hong Kong, **Hong Kong**
- 2/23/17 Mentoring for research integrity: Why, what, and how? Researchers, University of Hong Kong, **Hong Kong**
- 3/1/17 Meetings and discussion about how to develop a research ethics program with two delegates from **Japan**
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- 7/23/19 Reproducibility Workshop for Graduate Students and Postdocs. University of Queensland, Brisbane, **Australia**
- 7/23/19 Keynote Lecture on Reproducibility University of Queensland, Brisbane, **Australia**

- 7/24/19 Mentoring for Responsible Science Workshop for Faculty.
University of Queensland, Brisbane, **Australia**
- 7/25/19 Introduction to Research Integrity for Graduate Students.
University of Queensland, Brisbane, Australia
- 11/15/19 Overview of Research Integrity in US
MEXT, Tokyo, Japan
- 11/15/19 Overview of Research Integrity in US
MEXT, Tokyo, Japan
- 3/19/23 Preconference Seminar: Research on Research Integrity, Asia Pacific Research
Integrity Network, Waseda University, Tokyo, Japan

INVITED LECTURES, WORKSHOPS, AND SERVICE – STATE AND NATIONAL (Selected)

- 1988, 1990 Neurotoxicity of local anesthetics (lectures)
Alumnus Update Course and Department of Anesthesiology
Loma Linda University, Loma Linda, California
- 1990 Training Biomedical Investigators in the Laboratory (workshop) and Data
access and sharing (workshop), Biomedical Research Integrity in the '90s, La
Jolla, California
- 1996 Panels on: Developing and Maintaining Professional Norms in Science; Gray
Areas in Scientific Conduct: Preparing Researchers to Respond Responsibly;
and The New Media and How it Can Enhance Your RCR Program
PRIM&R meeting on The Responsible Conduct of Research: A Commitment for
All Scientists, San Diego
- 1996 Statistics and Quality Control
Osler Institute Pathology Board Review Course, San Diego, CA
- 1997 Plenary session on Ethics Education across Science and Medicine
40th Annual Meeting of Council of Biology Editors, Philadelphia
- 1997 Workshop on Teaching Responsible Scientific Conduct
Annual Meeting of Society for Neuroscience, New Orleans
- 1997 Workshop on Teaching Responsible Science
National Academy of Sciences, Washington, D.C.
- 1998 Panelist, Ethics in Scientific Publication
Society for Scholarly Publishing 20th Anniversary Conference, San Diego, CA
- 1998 Statistics and Quality Control
Osler Institute Pathology Board Review Course, Anaheim, CA
- 1998 Panelist, Assigning credit for productivity
Management of Biomedical Research Laboratories, Co-sponsored by Office of
Research Integrity and the University of Arizona, Tucson, AZ
- 1999 Resource person for Working Group on Education, Ethics, and Science
Student Pugwash USA 20th Anniversary International Reunion Conference,
Science and Social Responsibility in the New Millennium, San Diego, CA
- 1999 Workshop on Dimensions of Authorship
Virginia Commonwealth University, Richmond, VA
- 1999 Speaker on Program and Curriculum Development; Co-moderator, Workshop
on Understanding the NIH requirement, designing the program, obtaining
funding, finding faculty, and developing outcome measures for education for
the responsible conduct of research; and Co-moderator, Workshop on
Roadmaps for Responsible Conduct of Research Program Development
Public Responsibility in Medicine and Research (PRIM&R) 1999 Conference on

- Educating for the Responsible Conduct of Research in the Next Millennium,
Bethesda, MD
- 1999 Conference Organizer; Moderator for Discussion of Approaches and
experiences in resolving cases
Workshop for Institutional Misconduct Officials, Co-sponsored by Office of
Research Integrity, UCLA, Univ. of Washington, and UCSD, San Diego, CA
- 10/30/99 Teaching the teachers: Can ethics and responsibility be taught? (2 hrs)
Student Pugwash USA, Washington, DC
- 7/13/00-7/14/00 Conflict of Interest (2 days)
Visiting Professor, Mayo Clinic, Rochester, MN
- 8/2/00 Reviewer of Draft PHS Policy on Instruction in the Responsible Conduct of
Research, NIH, Bethesda, MD
- 10/13/00 The New PHS Policy: Instruction in the responsible conduct of research (1 hr)
Society of Research Administrators, Salk Institute, La Jolla, CA
- 10/17/00 Ethics for Biomedical Trainees: What, Why, and How?
AAMC Group on Graduate Research, Education, and Training, Savannah, GA
- 11/16/00 Collaboration in Science: Principles and Practice (1 hr)
Sanger Visiting Professor, Virginia Commonwealth University, Richmond, VA
- 2001 Member, organizing committee, conference on Responsible Conduct of
Research, PRIM&R [May 17-9, 2001]
- 2/23/01 Online Resource for Instruction in Responsible Conduct of Research:
rcr.ucsd.edu
Education Summit, Bethesda, MD
- 2/23/01 Participant, Education Summit
Office of Research Integrity, Office for Human Research Protections, Food and
Drug Administration, and other federal agencies, Bethesda, MD
- 2/24/01 Host, UC RCR Working Group, UCSD
- 3/27/01 Training: Meeting the Letter and Spirit of the New Public Health Service Policy
on Instruction in the Responsible Conduct of Research (workshop moderator)
PRIM&R IACUC Conference, San Diego
- 3/27/01 Training: Helping PIs Understand, Support, and Participate in the Compliance,
Advocacy, and Ethical Dimensions of Research with Animals (workshop
moderator)
PRIM&R IACUC Conference, San Diego, CA
- 5/16/01 Participant, Interim Education Summit, Crystal City, VA
- 5/17/01 RCR 101
PRIM&R Workshop, Crystal City, VA

5/18/01 Developing Curricula (Panel Moderator)
Promoting Responsible Conduct of Research (PRIM&R Conference), Crystal City, VA

5/19/01 Computer-based Instruction in the Responsible Conduct of Research
Promoting Responsible Conduct of Research (PRIM&R Conference), Crystal City, VA

5/25/01 Participant, UC RCR Working Group, Oakland, CA

8/6/01 Scientific Ethics: What are our responsibilities as facility managers?
Microscopy Society of America, Long Beach, CA

8/17/01 Participant, 2nd Education Summit, Lenox, MA

10/8/01 Proposal for a UC Systemwide Program of Instruction in the Responsible
Conduct of Research (1/2 hr), UCORP, Berkeley, CA

11/10/01 Ethics Discussions (2 hrs), Survival Skills Workshop, Society for Neuroscience,
San Diego, CA

12/1/01 Participant, 3rd Education Summit, Boston, MA

12/1/01 RCR101 (8 hrs), PRIM&R Workshop, Boston, MA

12/5/01 Strategies for Promoting Responsible Conduct of Research
Council of Graduate Schools, San Diego

2001-2003 Member, interim steering committee, RCR Education Consortium

2001-2003 Member, RCR Working Group, UC Office of the President

2002 Member, RCR Evaluation Oversight Group (1 of 2 non-government members)
Group formed by NIH Research Training Officer, Office of the Director, NIH

2002 Member, organizing committee, conference on Research Guidelines, Office of
Research Integrity [September 23-24, 2002]

3/4/02 Ethics of Human Research, Topics and Advances in Internal Medicine, San
Diego

3/23/02 RCR101 (8 hrs), PRIM&R Workshop, Boston, MA

5/6/02 Programs to promote responsible conduct of research
Council of Science Editors, San Diego, CA

6/21/02 RCR101 on the road (8 hrs), Border Health Research, El Paso, TX

8/15/02 RCR101: selected topics (4 hrs), Protecting Human Subjects: Safety, welfare,
and privacy, Seattle, WA

8/17/02 Update on RCR education (1 hr), Collaborative Interinstitutional Training
Initiative, Seattle, WA

2004 Local organization and co-sponsorship, conference on Research on Research
Integrity, Office of Research Integrity [November 12-14, 2004]

2004 Member, Advisory Committee, Project on Biosecurity Education for Biology Graduate Students, Federation of American Scientists
Washington, DC

2004 Member, NIH study section: International Bioethics Education & Development

1/22/04 Who Decides? (ethical challenges to human subjects research)
Midwest Bioethics Center, Kansas City, MO

2/26/04 Defining a Curriculum in Research Ethics: Challenges and Solutions
Association for Practical and Professional Ethics Annual Meeting,
Cincinnati, OH

6/22/04 Beyond Regulations: From compliance to integrity in research ethics (1-1/2 hrs)
Navy Medical Research and Development, Lab Commanders' Annual Meeting
San Diego, CA

6/28/04 What more needs to be accomplished? (1-1/2 hrs)
Keynote lecture, RCR Education Summit
Michigan State University, East Lansing, MI

9/14/04 Who needs ethics? (2 hrs)
Flora Thornton Bioethics Seminar Series
Keck Graduate Institute, Claremont, CA

10/21/04 What is Responsible Conduct of Research and Why should it be taught? (2 hrs)
Northern Illinois University, DeKalb, IL

10/22/04 Is Compliance Enough? From compliance to integrity in research ethics (3 hrs)
Naval Institute for Dental and Biomedical Research, Great Lakes, IL

10/22/04 Authorship: Who's on first and who's not? (2 hrs)
Naval Institute for Dental and Biomedical Research, Great Lakes, IL

10/23/04 Ethical Challenges in Human Subjects Research (3 hrs)
Workshop, SRA International Annual Meeting, Salt Lake City, UT

10/26/04 Beyond Regulations: From compliance to integrity in research ethics (3 hrs)
Session, SRA International Annual Meeting, Salt Lake City, UT

10/28/04 RCR102: Cases (4 hrs)
PRIM&R Workshop, San Diego, CA

10/28/04 RCR102: Fundamentals (4 hrs)
PRIM&R Workshop, San Diego, CA

8/26/05 Responsible Conduct in Research Workshop, University of Alaska Fairbanks,
workshops on data management, collaboration, research ethics, Fairbanks, AK

9/6/05 "Authorship" and "From Research Misconduct to Responsible Conduct of
Research," Arizona State University, Tempe, AZ

- 10/17/05 Ethical Responsibilities for Data Stewardship, Acquisition, Management, Sharing, and Ownership, Society for Research Administrators International, Milwaukee, WI
- 10/18/05 Creating an RCR Curriculum and Program (with Daniel Vasgird), Society for Research Administrators International, Milwaukee, WI
- 11/10/05 Ethics and Stem Cells: What's Next? Southern California Chapter meeting, Society of Research Administrators, Children's Hospital of Orange County, Orange, CA
- 11/15/05 Responsible Data Management in Research: Getting it Right the First Time, Association of Rheumatology Health Professionals, Annual Scientific Meeting, San Diego, CA
- 12/2/05 Bioethics Focus Group Meeting, convened by State Assembly Member Lori Saldana to set priorities and parameters for the Assembly Select Committee on Bioethics and a statewide advisory panel on bioethics, Scripps Institution of Oceanography, La Jolla, CA
- 12/14/05 Workshop on Stem Cell Research Ethical Oversight Issues, The Gladstone Institutes, San Francisco, CA
- 2/1/06 Summary of Bioethics Focus Group Meeting, Assembly Select Committee on Bioethics, Medicine and Technology, California Council on Science and Technology Council Meeting, Sacramento, CA
- 3/3/06 Goals for Teaching Ethics in Science and Engineering, Panel G: Web-based Education in Science & Engineering Ethics, Annual Meeting, Association for Practical and Professional Ethics, Jacksonville, FL
- 3/9/06 Research Ethics: Are we meeting our goals? Keynote Lecture, RCR Awareness Week, University of Kansas, Lawrence, KS
- 3/9/06 RCR Meeting with Grad Students, RCR Awareness Week, University of Kansas, Lawrence, KS
- 3/16/06 Ethics for Stem Cell Researchers, Human Embryonic Stem Cell Culture Training Course, Children's Hospital of Orange County, Orange, CA
- 4/6/06 Research Ethics: Goals and Strategies, BioIndustry Ethics, Keck Graduate Institute, Claremont, CA
- 5/9/06 RCR Education: Resources, Society of Research Administrators International Western Section, Portland, OR
- 5/12/06 Scientific Misconduct: Role of Education, COSEPUP Board Meeting (by conference call)
- 6/2/06 Ethics of Research: Education in the University, Forum for IRBs/REBs in Canada and the United States, Arlington, VA

- 6/2/06 Code of Conduct for Dual Use Research in the Life Sciences, NSABB Panel of Experts, Bethesda, MD
- 7/28/06 Evidence-based RCR Education, Enhancing the Ethics of Research with Human Subjects: Challenges and Solutions for Researchers and IRBs, Oakland, CA
- 10/3/06 History and Ethics of Informed Consent, Select Committee on Bioethics, Medicine and Technology, Informational Hearing on Informed Consent and Clinical trials, UCSD
- 10/15/06 Creating an Environment to Foster Research Ethics, Society of Research Administrators International Annual Meeting, Quebec City, Canada
- 10/18/06 RCR Hot Topic: Stem Cell Research, Society of Research Administrators International Annual Meeting, Quebec City, Canada
- 2/9/07 Research Oversight: Institutional Views, Stem Cell Research Hits the Road, Stanford University, Palo Alto, CA
- 2/9/07 Participant, CIRM's Regional Workshop, Stanford University, Palo Alto, CA
- 2/19/07 Embryonic Stem Cell Research Oversight Committees, National Academy of Sciences ESCRO Conference, UC Irvine, Irvine, CA
- 2/22/07 Research Ethics Instruction: Effective Education and Evaluation for the 21st Century. Annual Meeting of Association for Practical and Professional Ethics, Cincinnati, OH
- 2/25/07 RCR Mini-Conference: Authorship and Social Responsibility, Co-Moderator and Organizer. Annual Meeting of Association for Practical and Professional Ethics, Cincinnati, OH
- 3/14/07 Ethics for Stem Cell Researchers, Human Embryonic Stem Cell Culture Training Course, Children's Hospital of Orange Country, Orange, CA
- 3/27/07 How to Teach Ethics to IACUC Members, Investigators, Animal Technicians, and Other Research Staff, Workshop D18, PRIM&R Annual Meeting, San Diego, CA
- 4/29/07 Fostering Research Ethics: Regulation and Policy, Society of Research Administrators Western Section Meeting, Hawaii.
- 4/30/07 Misconduct in the Research Environment, Society of Research Administrators Western Section Meeting, Hawaii.
- 4/30/07 Human Embryonic Stem Cell Research, Society of Research Administrators Western Section Meeting, Hawaii.
- 5/1/07 Animal Subjects: Principles, Society of Research Administrators Western Section Meeting, Hawaii.
- 5/1/07 Conflicts of Interests: Principles, Society of Research Administrators Western Section Meeting, Hawaii.

- 6/7/07 Reviewer, NIH Office of Biotechnology Activities (OBA) outline for educational video on dual use research, Conference Call.
- 7/6/07 Mentoring Relations: Meeting the Responsibility, Cedars Sinai Medical Center, Los Angeles, CA
- 7/19/07-7/20/07 ESCRO Workshop: Sharing Problems-Sharing Solutions, Stanford University, Palo Alto, CA
- 10/16/07 From Compliance to Integrity: The Challenge of Research Ethics to the Culture of Research, Society of Research Administrators International Annual Meeting, Nashville, TN
- 10/17/07 Creating an Environment to Foster Research Ethics, Society of Research Administrators International Annual Meeting, Nashville, TN
- 10/17/07 Disputes in Data Ownership and Authorship: Research Administration Roles for Prevention and Management, Society of Research Administrators International Annual Meeting, Nashville, TN
- 11/2/07 Ethics Case Discussion, Discussion Leader, Professional Skills workshop, Society for Neuroscience Annual Meeting, San Diego, CA
- 2/8/08 Stem Cell Research: ESCRO Committees, IRBs, and Ethics, National Research Community Forum, Thinking Outside the Box: Addressing the Challenges of Human Subject Research in 2008, UC Davis, Davis, CA
- 2/21/08 Research Ethics Instruction: Effective Education and Evaluation for the 21st Century. Annual Meeting of Association for Practical and Professional Ethics, San Antonio, TX
- 2/22/08 The Price of Truth: Author meets the critics, Association for Practical and Professional Ethics Annual Meeting, San Antonio, TX
- 2/23/08 Research Ethics Education, Panel Moderator, Association for Practical and Professional Ethics Annual Meeting, San Antonio, TX
- 3/10/08 Ethics for Stem Cell Researchers, Human Embryonic Stem Cell Culture Training Course, Children's Hospital of Orange County, Orange, CA
- 4/5/08 Responsibilities of Scientists: Giving Credit and Avoiding Bias, What every scientist needs to know about ethical issues in biomedical research; American Physiological Society Public Affairs Committee Symposium, San Diego, CA
- 4/6/08 Ethical Challenges for Stem Cell Researchers, Workshop on Applications of Stem Cells in Research, American Society for Investigative Pathology, San Diego
- 10/18/08 Promoting Ethics in Research, Research Ethics Workshop, Univ. Nebraska Lincoln (8 hrs)
- 11/21/08 Invited Participant, AAAS Professional and Graduate-Level Programs on Dual Use Research and Biosecurity Ethics and Responsibility, Washington, DC

1/15/09 Responsible Conduct of Research, USC Workshops, USC, Los Angeles (3 hrs)

2/6/09 Bringing Ethics to Light, Optical Society of America Leadership Conference, Washington, DC (1 hr)

2/17/09 Ethical considerations in clinical trials, CIRM Medical and Ethical Standards Working Group, Los Angeles (1 hr)

4/9/09 National Research Ethics Meeting, Council of Graduate Schools, Washington, DC (8 hrs)

6/30/09 Ethics training: Required, Voluntary, or Unnecessary? CIRM SCRO Workshop, San Francisco (2 hrs)

6/30/09 2-day Workshop Organization, CIRM SCRO Workshop, San Francisco (12 hrs)

7/6/09 Ethics in Research and Medicine, LEAD America, SDSU (1 hrs)

1/8/10 Review of Draft Research Ethics Education Materials, UC Irvine, UCI (1.5 hrs)

1/26/10 Responsible Conduct of Research (RCR) Workshop, UC Irvine, UCI (8 hrs)

3/6/10 Author Meets the Critics: Everyday Practice of Science: Where Intuition and Passion Meet Objectivity and Logic, Association for Practical and Professional Ethics, Cincinnati (1 hrs)

4/9/10 Research Ethics Workshop, UC Irvine, UCI (8 hrs)

4/16/10 Research Ethics Workshops, University of New Mexico, Albuquerque, NM (6 hrs)

4/28/10 The UCI Response to new Requirements for Education in the Responsible Conduct of Research (RCR), UC Irvine Research Administration, UCI (1 hrs)

6/30/10 Workshop in Research Ethics, UC Berkeley, UC Berkeley (6 hrs)

9/15/10 Singapore Statement on Research Integrity, CITI Developer's Group Meeting, San Diego (0.5 hrs)

10/19/10 Stem Cell Ethics and Policy, Virginia Commonwealth University, Richmond, VA (3 hrs)

10/20/10 Roundtable on Promoting Awareness and Responsibility in Dual Use Research: A Critical Assessment of the Role of Codes of Conduct, National Science Advisory Board on Biosecurity, NIH, Bethesda, MD (4 hrs)

12/6/10 Responsible Conduct of Research 101, PRIM&R Advancing Ethical Research Conference, San Diego

12/6/10 Responsible Conduct of Research: What Does a Great Mentor Do, PRIM&R Advancing Ethical Research Conference, San Diego

3/3/11 Participant and Concluding Presentation, The Challenge of Research Ethics Education in the University Setting: A Response to NIH and NSF

- Requirements, Responsible Conduct of Research Education Committee Seminar, Association for Practical and Professional Ethics, Cincinnati (10 hrs)
- 6/23/11 Chair, NIH Special Emphasis Panel Review Committee, NIEHS, Durham (6 hrs)
- 8/26/11 Resources for RCR Instruction, Educating Scientists in Research Ethics for the 21st Century, Potomac, MD
- 11/11/11 Beyond Case Studies (with Dena Plemmons), Teaching Social and Ethical Implications of Research, Arizona State University
- 11/12/12 Meeting of Virginia Commonwealth University Clinical and Translational Science Award External Advisory Board
- 12/4/12 Train the Trainer: When Can We Stop Teaching About Research Misconduct? Public Responsibility in Medicine & Research, San Diego
- 12/12/12 Goals of RCR Education: Why do we teach research ethics? Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators, National academy of Engineering Workshop, Washington, DC
- 1/21/13 Ethics in Science, First of 7 two hr meetings for Graduate Student course, The Scripps Research Institute, Jupiter, Florida
- 1/26/13 Ethical Considerations in Research, FLARE Workshop, The Endocrine Society, San Diego
- 4/4/13 Two decades of developing RCR education curricula and materials, ORI at 20: Reassessing Research Integrity, Baltimore, MD
- 10/17/13 Emperor of All Maladies Series, United States-México Border Health Commission
- 11/4/13 Meeting of Virginia Commonwealth University Clinical and Translational Science Award External Advisory Board
- 6/9/14 Research Ethics: A 'Train the Mentors' Workshop, Educating Scientists in Research Ethics for the 21st Century - A trainer-of-trainers conference, Annapolis, MD
- 10/8/14 Promoting Research Integrity, AAAS and China Association of Science and Technology, Washington, D.C.
- 2/20/15 Moving RCR Education Outside the Classroom, Research Community, Association for Practical and Professional Ethics
- 3/26/15 Faculty RCR Mentoring, Hampton University
- 3/27/15 Faculty RCR Mentoring, Engineering Faculty, Virginia Commonwealth University
- 4/24/15 Technology, Ethics, Your Students, and You for California Learning Communities Consortium, Pomona, CA

- 1/23/16 Talking Ethics, Council of University Directors of Clinical Psychology
- 4/12/16 Student and Faculty Workshops on Research Ethics, TRI-I researchers, New York
- 4/21/16 Science, Truth and the Public Trust, Ray Symposium, Western University of Health Sciences
- 10/21/16 Overview of Ethics in Scientific Research, Videotaped lecture for AAAS Online Courses (launched 1/24/17)
- 3/3/17 Beyond the Classroom, Positive Integrity Workshop, Notre Dame, Indiana
- 10/7/19 Mentoring
IDeA Conference, Las Vegas, Nevada
- 10/8/19 Mentoring for Responsible Science Workshop
IDeA Conference, Las Vegas, Nevada
- 3/2/20 Research Ethics: Uncertainty, Reproducibility, and Truth in Science
Walter H. Capps Winter Forum on Ethics and Public Policy, UC Santa Barbara

INVITED LECTURES, WORKSHOPS, AND SERVICE – SAN DIEGO COMMUNITY

- 1998 Bioethics
Science Career Day, American Women in Science, Qualcomm, San Diego, CA
- 1998 Do Scientists Cheat? A seminar on scientific ethics
The Burnham Institute, La Jolla, CA
- 2/29/00 Authorship Credit: Who decides? (1 hr)
Burnham Institute, San Diego, CA
- 4/9/00 Success and Survival in Academia (1/2 hr)
CAMP Statewide Undergraduate Research Symposium, San Diego, CA
- 5/22/00 Questioning the integrity of science (5 hrs)
Acadia Pharmaceuticals (inaugural lecture in research ethics), San Diego, CA
- 3/13/01 Collaboration in Science: Principles and Practice (1 hr)
Burnham Institute, La Jolla, CA
- 6/13/01 Authorship and Credit (1 hr)
Center for Reproduction of Endangered Species, San Diego, CA
- 7/24/01 Conflict of Interest (1 hr)
Geriatric Psychiatry Summer Research Institute, San Diego, CA
- 7/24/01 What is Research Misconduct? (2 hrs)
Vaccine Research Institute of San Diego
- 2/5/02 Authorship: Who, Why, and Why not? (1 hr)
Burnham Institute, San Diego
- 11/20/03 Ethical Dilemmas in Gene Transfer Research (1 hr)
Scripps Clinic, San Diego, CA
- 3/15/04 Collaboration and Authorship: Sharing the Blame? (1 hr)
Burnham Institute, San Diego
- 4/22/04 The Leaky Pipeline (1 hr)
Annual Offsite Retreat: Ethical Issues Related to Science and Technology
Bioethics and End of Life Committees, Kaiser Permanente
University of San Diego, San Diego, CA
- 7/22/05 Science, Ethics, and Journalism, Ealy Workshop on Biotechnology: GMOs and
Other Issues, Institute of the Americas, La Jolla, CA
- 8/3/05 Topics for Ethical Consideration, Public Policy and Biological Threats: Training
the Next Generation, Institute on Global Conflict and Cooperation, UCSD
- 8/17/05, 8/28/05 Ethics on the Edge of Science, Downtown Rotary Clubs, San Diego, CA
- 2/8/06 Research Ethics: Reality, ideals, and evidence, Research Ethics Seminar Series,
San Diego State University, San Diego, CA

- 3/21/06 Moderator, Religious Extremism and the Responsibility of Mainstream Religions, Harvard Club, Neurosciences Institute, La Jolla, CA
- 3/22/06 Ethics for Stem Cell Researchers, Association for Women in Science, Burnham Institute for Medical Research, La Jolla, CA
- 7/7/06 Biomedical Research Ethics, LEADAmerica, San Diego State University, San Diego, CA
- 7/13/06 Ethics, Your Brain, and You, University of the Third Age, University of San Diego, San Diego, CA
- 10/20/06 Clinical and Ethical Perspectives, Chair, The Stem Cell Meeting on the Mesa, Salk Institute
- 11/18/06 Engineering Ethics, Society of Hispanic Professional Engineers, San Diego CA
- 2/12/07 Stem Cell Regulation, Ethics at the Frontiers of Science, University of San Diego, San Diego, CA
- 4/6/07 Stem Cell Ethics Conference, Organizer, Center for Ethics in Science and Technology, Salk Institute
- 6/19/07 Biomedical Research Ethics, LEADAmerica, San Diego State University, San Diego, CA
- 7/10/07 MySpace or Your Space, Moderator, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center, San Diego, CA
- 7/13/07 Science, Ethics and Journalism, 4th Jack F. Ealy Workshop on Science Journalism, Institute of the Americas, San Diego, CA
- 7/16/07 Introduction to Research Ethics, SIRA High School STAR Program.
- 10/1/07-10/6/07 Neuroethics Week, Co-Organizer, Moderator, and Lecturer, Center for Ethics in Science and Technology, Neurosciences Institute, UC San Diego, University of San Diego, San Diego State University, Reuben H. Fleet Science Center, California Western School of Law, San Diego, CA
- 11/9/07 Science and Law: Functional MRI, Guest, Contemporary Legal Issues (LS/PLS 290 Paralegal Studies), Palomar College TV, San Marcos, CA
- 11/15/07 Health Industry Ethics and Effective Monitoring, Fifth Annual Latin America Health Care Media Workshop, Institute of the Americas, San Diego, CA
- 2/27/08 MySpace or Your Space, Co-organizer and Moderator, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 3/10/08 Neuroethics, Ethics at the Frontiers of Science, University of San Diego, San Diego, CA
- 4/8/08 Overview of Ethics in Clinical Research, Pediatric Fellows Research and Academic Development Seminar, Rady Children's Hospital

- 5/7/08 Program Organizer and Moderator, Stem Cells: New Sources and New Questions; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 6/4/08 Program Organizer and Moderator, Reading Minds and Detecting Lies; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 8/6/08 Program Organizer and Moderator, Surveillance and Sensors: Who's watching whom? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 9/3/08 Program Organizer and Moderator, Stronger, Higher, Faster: Do the wins justify the means? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 10/1/08 Program Organizer and Moderator, Politics in Science: Who decides what gets done and what it means? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 11/5/08 Program Organizer and Moderator, Electronic Health Records: The Good, the Bad, and the Future; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 12/3/08 Program Organizer and Moderator, Retrospective: Science and ethics news stories of 2008; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 1/7/09 Program Co-Organizer, Race and Culture in Medicine; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 2/4/09 Program Co-Organizer, Evolution: Whose responsibility is it? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 3/4/09 Program Co-Organizer, Our Robots, Ourselves; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 4/1/09 Program Organizer and Moderator, Smart Drugs: How smart are they? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 5/6/09 Program Organizer and Moderator, Stem Cell Therapy: Are we ready? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 6/3/09 Program Organizer and Moderator, Facing Pandemics: Science, Ethics, and Uncertainty; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 6/28/09 Ethical Issues in Science and Medicine, Burnham Institute President's Circle Event, Burnham Institute (2.5 hrs)

- 7/1/09 Program Organizer and Moderator, Can we share electronic information without losing our privacy? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 8/5/09 Program Organizer and Moderator, Who Owns Your Genes? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 9/2/09 Program Co-Organizer, RoboWarfare. Is the world a better place when robots fight our wars for us? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 10/6/09 Research Ethics: Compliance, Misconduct, and Culture, Howard Hughes Medical Institute Managers Meeting, San Diego (3 hrs)
- 10/7/09 Program Organizer and Moderator, SPECIAL EVENT: Ethics Center 5-Year Anniversary; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 12/2/09 Program Organizer and Moderator, Fact vs. Hype in Science News; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 1/6/10 Program Organizer and Moderator, Are We Ready For Brain Pacemakers? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 2/3/10 Program Organizer, Moderator, and Speaker, Climate Change Challenges; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 3/3/10 Program Organizer and Moderator, Who Owns the Data? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 4/7/10 Program Organizer, Do you have to be a criminal to study crime? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 5/5/10 Program Organizer and Moderator, Are Vaccines Really Safe? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 6/2/10 Program Organizer and Moderator, Students, Science, and Ethics! Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 7/7/10 Program Organizer and Moderator, Will we be ready when the petroleum runs out? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center

- 8/4/10 Program Organizer and Moderator, Analysis of HIV networks: Can we protect both public health and confidentiality? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 9/1/10 Program Organizer and Moderator, Synthetic Genomics: Who is watching? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 10/6/10 Program Co-Organizer, the Ethics of Cooling the Planet through Geo-Engineering, Part I; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 11/3/10 Program Co-Organizer and Moderator, the Ethics of Cooling the Planet through Geo-Engineering, Part II; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 12/1/10 Program Organizer and Moderator, Ethical Choices for Innovators: A Conversation with David Fogel; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 1/5/11 Program Organizer and Moderator, Human embryonic stem cells: Do unfertilized human eggs offer another way? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 2/2/11 Program Organizer and Moderator, Should patients have a voice in FDA drug approval? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 3/2/11 Program Co-Organizer, The Ethics of Cooling the Planet through Geo-Engineering, Part III; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 4/6/11 Program Organizer and Moderator, Science for Human Rights: Quantitative Methods for Security and Humanitarian Aid; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 5/4/11 Program Organizer and Moderator, Who owns your cell phone? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 6/1/11 Center for Ethics in Science and Technology, Kaiser Bioethics Committee, San Diego (3 hrs)
- 6/1/11 Program Organizer and Speaker, Stem cells and informed consent: What's the right balance? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center
- 6/29/11 Do the Rules Matter? A research ethics discussion, Sanford Burnham Medical Research Institute
- 7/8/11 Parthenogenetic stem cell lines: Ethical considerations, Hosting half day workshop, San Diego Research Ethics Consortium

8/3/11 Program Organizer and Moderator, Engineering Genetically Manipulated Organisms in a Global Market: Are we ready? Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center

8/24/11 Conflicts of Interest, La Jolla Institute for Allergy and Immunology, La Jolla

9/7/11 Program Organizer, HeLa: Immortal Cells and Enduring Questions; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center

9/29/11 Collaboration, La Jolla Institute for Allergy and Immunology, La Jolla

10/5/11 Program Organizer and Moderator, The Politics of Race, Class, Gender and HIV/AIDS in South Africa; Exploring Ethics Series, Center for Ethics in Science and Technology, Reuben H. Fleet Science Center

10/11/11 Ethical issues in privacy, iDASH Privacy Workshop, Calit2, UC San Diego

10/20/11 Publication, La Jolla Institute for Allergy and Immunology, La Jolla

11/2/11 Program Organizer and Moderator, Rebecca Skloot, author of The Immortal Life of Henrietta Lacks; Exploring Ethics Series, Center for Ethics in Science and Technology, Shiley Theatre, University of San Diego

11/16/11 Ethics and Science, High Tech High, Memorial Prep Middle School (San Diego Science Festival)

11/17/11 Ethics and Science, High Tech High, Chula Vista (San Diego Science Festival)

2/9/12 Authorship Are there any standards? Naval Health Research Center, San Diego

3/28/12 Ethics in Science, First of 7 two hr meetings for Graduate Student course, The Scripps Research Institute, La Jolla

4/12/12 Research Misconduct, La Jolla Institute for Allergy and Immunology, La Jolla

5/17/12 Data Management, La Jolla Institute for Allergy and Immunology, La Jolla

7/16/12 Ethics in Science, First of 7 two hr meetings for Graduate Student course, The Scripps Research Institute, Jupiter, Florida

8/6/12 Ethics in Science, First of 7 two hr meetings for Graduate Student course, The Scripps Research Institute, La Jolla

8/16/12 Stem Cell Research History, ethics, and policy, The Scripps Research Institute, La Jolla

10/18/12 Authorship and Publication, La Jolla Institute for Allergy and Immunology, La Jolla

3/7/13 Responsibility of Science and Scientists to Society, La Jolla Institute for Allergy and Immunology, La Jolla

10/17/13 "Emperor of All Maladies Series" United States-México Border Health Commission

5/5/14 Ethics in Science, First of 7 two hr meetings for Postdocs, The Scripps Research Institute, La Jolla

8/17/14 Ethics in Science, TSRI Grad Students

8/17/14 Ethics in Science, TSRI Grad Students

10/20/14 Ethics in Science, TSRI Postdocs

11/5/14 Computers, ethics, your students, and you, Middle and High School Science Teachers, San Diego

2/4/15 HIV Genealogy, San Diego Ethics Center Community Forum

2/5/15 Peer Review, La Jolla Institute for Allergy and Immunology Postdocs

2/18/15 Is it Reproducible? SBMRI Researchers

4/2/15 Reproducibility, La Jolla Institute for Allergy and Immunology Postdocs

6/9/15 Ethics in Science, TSRI Grad Students

8/4/15 Ethics in Science, TSRI Grad Students II

8/12/15 Ethics in Science, TSRI Grad Students III

8/12/15 Ethics in Science, TSRI Grad Students IV

9/17/15 Censorship, La Jolla Institute for Allergy and Immunology Postdocs

10/8/15 Research Ethics, Psychology Trainees & Faculty

11/19/15 Faculty Panel, La Jolla Institute for Allergy and Immunology Postdocs

11/24/15 Helping Ethics Keep Up with Science, Carlsbad Village by the Sea, San Diego

12/4/15 Ethics and Active Learning for STEM Disciplines, Grossmont College, San Diego

1/21/16 Community Engagement; Informed Consent, Policy Workshop, J. Craig Venter Institute

2/8/16 Ethics Center and Equity, Chairs & Coordinators, Grossmont College

3/16/16 Mind-machine interface, Philosophy students, Grossmont College

4/28/16 Control and Spread of the Zika Virus, Comm College Students & Faculty

5/19/16 Introduction to Research Ethics, La Jolla Institute for Allergy and Immunology Postdocs

6/16/16 Faculty Panel, La Jolla Institute for Allergy and Immunology Postdocs

8/16/16 Facilitating STEM Education through Discussions of Ethics, Grossmont Flex Week

8/16/16 Science through Ethics: Biomedical Science, Grossmont Flex Week

10/19/16 Misconduct in the Name of Science: Why does it happen and what should we do about it? 1230 Club, San Diego

10/25/16 Intro to Research Ethics, J. Craig Venter Institute

11/11/16 Data Management, Society for Neuroscience Data Management Workshop

11/17/16 Statistics, La Jolla Institute for Allergy and Immunology Postdocs

1/9/17 Ethics in Science, TSRI Postdocs

1/18/17 Ethics in Science, TSRI Grad Students III

1/27/17 Immortal Life of Henrietta Lacks, Coronado Roundtable, San Diego

2/2/17 Retractions, La Jolla Institute for Allergy and Immunology Postdocs

2/16/17 Research Integrity, Citizen Science group, San Diego Public Library

3/9/17 Research Misconduct, Sanford Burnham Prebys Medical Discovery Institute

8/7/17 Ethics in Science, TSRI Grad Students I

8/7/17 Ethics in Science, TSRI Grad Students II

8/7/17 Ethics in Science, TSRI Grad Students III

9/12/17 Biomed Workshop for Personalized Medicine
Biomed Regulatory Policy Workshop Participants

9/28/17 Managing & mentoring a research group, LIAI Postdocs

11/16/17 Dependence on funding, LIAI Postdocs

11/20/17 Data Management for Researchers, J. Craig Venter Institute

2/5/18 Ethics in Science, TSRI Grad Students

3/8/18 Authorship, LIAI Postdocs

3/15/18 RCR Special Topic: Gene editing, Sanford Burnham Prebys Medical Discovery Institute

5/10/18 Faculty Panel, LIAI Postdocs

6/5/18 Mentoring, J. Craig Venter Institute

8/6/18 Ethics in Science, TSRI Grad Students I

8/6/18 Ethics in Science, TSRI Grad Students II

8/6/18 Ethics in Science, TSRI Grad Students III

10/11/18 Data Management, LIAI Postdocs

12/13/18 Research Misconduct, LIAI Postdocs

2/15/19 The Twinning Reaction, Jewish Community Center Donors

3/7/19 Authorship for Trainees and Faculty, Sanford Burnham Prebys Medical Discovery Institute

3/7/19 Communicating with Non-Scientists, LIAI Postdocs
4/28/19 Reproducibility, San Diego Skeptics Society
5/23/19 Impact Factor, LIAI Postdocs
10/10/19 Ethics Center, Achievement Rewards for College Scientists
11/7/19 Reproducibility for Researchers, Sanford Burnham Prebys Medical Discovery
Institute
12/7/19 Ethics Center, STEAM Festival
12/10/19 Why would a scientist lie, cheat, or steal? LIAI Postdocs
12/11/19 Privacy (Panel member), Data West Policy Forum
2/6/20 Ethics Center, High Tech Fair
2/7/20 Ethics Center, High Tech Fair
3/12/20 Whistleblowing, Sanford Burnham Prebys Medical Discovery Institute

TEACHING UCSD –COURSES AND MISC. (1982-2021)

- 1982-2021 Over 150 students trained in my laboratory and research group under various UCSD programs, including with supplemental funds from NIH for training undergraduate underrepresented minority students.
- 1982-1984 Neurophysiology Seminar Series
Coordinator, Neuroscience 244, UCSD
- 1983-1987 Pharmacology (course)
Instructor, California Acupuncture College and Pacific College of Oriental Medicine, San Diego
- 1983 An Introduction to Pharmacology (course)
Instructor, Extension 404, UCSD
- 1983 Epilepsy Seminar Series
Coordinator & lecturer, Neurology, VA Medical Center, San Diego
- 1984 Anatomical Basis of Clinical Neuropharmacology, NS 275
Coordinator & lecturer, UCSD
- 1986-1988 Statistics, Neurotoxicity of local anesthetics (seminars)
Department of Anesthesiology, UCSD
- 1987-2002 Peripheral Nerve Journal Club (Weekly conference)
- 1988 Scientific Methods (18 hours)
Department of Anesthesiology, UCSD
- 1989 Methods of Research (8 hours), Methods of Experimental Science (8 hours)
Undergraduate Courses, UCSD
- 1990 Data ownership and sharing (seminar)
Cancer Center, UCSD
- 1990 Peripheral Nervous System (18 hours)
Undergraduate Course, UCSD
- 1990 Resident Research Reviews (12 hours)
Department of Anesthesiology, UCSD
- 1991 Resident Research Reviews (16 hours)
Department of Anesthesiology, UCSD
- 1991 Science: Quantity or quality? (seminar)
Molecular Pathology (Seminar 225)
Department of Pathology, UCSD
- 1992 Ethics and science (seminars)
Departments of Otolaryngology, Anesthesiology, and Pathology, UCSD
- 1992 Local anesthetic-induced nerve injury (seminar)
Neurosurgery Research Conference Series, UCSD

- 1993-2002 Statistical methods and experimental design, NEU 225 / PATH 232 (20 hours)
Neurosciences and Molecular Pathology Graduate Programs, UCSD
- 1993 Do scientists cheat? (8 hours)
Undergraduate Seminar (Third 90), UCSD
- 1993 Standards of scientific conduct (seminar)
Graduate students, Department of Chemistry, UCSD
- 1994-2002 Neuropathology Research Conference (Monthly conference)
- 1997-2010 Professional Roles and Responsibilities (Fall, Winter, Spring)
Preparing Professional Faculty, Center for Teaching Development, UCSD
- 1998-2002 Scientific Communication (NEU 251) (20 hours)
Graduate students, UCSD
- 1998 The peripheral nervous system; Research ethics
Howard Hughes Program Seminars, UCSD
- 1998 Misconduct in academia: Problems and solutions
Institute for Continued Learning, UCSD, La Jolla, CA
- 1999 Guest lecturer, Animal research
Ethics and Society (Philosophy 27), UCSD

TEACHING UCSD – ETHICS COURSES AND WORKSHOPS (1994-2021)

- 1994-2021 Research ethics Workshop (4-7 hours)
Summer Medical Student Research and Medical Scientist Training Programs,
School of Medicine, UCSD
- 1994-2021 2-5 sections of Scientific ethics (SOMI 226, PHAR/BIOM 219) each year
- 1996-2021 Ethics and survival skills in academia (SOM 241) each year
- 1999-2006 Scientific integrity (Internet-based course) (12 weeks) each year

TEACHING UCSD – OTHER (2001-2021)

- 2001-2015 4-8 seminars on research ethics for CREST (<http://crest.ucsd.edu>) program each
year
- 3/18/02 Is teaching research ethics a waste of time? (1 hr)
SOMA Faculty Distinguished Lecture, UCSD
- 4/26/02 Can Ethics Be Taught? (2 hrs)
Institute for Continued Learning (ICL) Distinguished Faculty Lecture, UCSD

9/13/05 Research Ethics, Grand Rounds, Department of Emergency Medicine, UCSD

11/28/05 Ethics and Stem Cells: What's Next? UCSD Medical Ethics Grand Rounds

4/12/06 Are we doing enough to minimize research misconduct? Pat Ledden Memorial Luncheon, UCSD

4/20/06 Ethics, Your Brain, and You, Osher Lifelong Learning Institute, UCSD

4/28/06 Research Ethics, National Center of Leadership in Academic Medicine, UCSD

5/12/06 Ethics and Stem Cells, Chancellor's Associates, UCSD

5/17/06 Stem Cell Research: Ethical Issues, ESCRO Committees, and Beyond, Biomedical Ethics Seminar Series, UCSD

5/31/06 Stem Cells, Hwang, and Ethics: Have we learned anything? Biomedical and Clinical Research Center Seminar, Hillcrest, UCSD

7/5/06 Ethics in Science and Research, STARS Summer Workshop, UCSD

7/17/06 Introduction to Research Ethics, Physics REU Research Ethics Workshop, UCSD

7/20/06 Introduction to Research Ethics, SIRA High School STAR Program, UCSD

8/3/06 Public Policy and Biological Threats: Ethical Issues, Public Policy and Biological Threats, Institute on Global Conflict and Cooperation, UCSD

8/9/06 Research Misconduct: How bad is it? Research Ethics Journal Club, SDSU Foundation, San Diego, CA, UCSD

9/8/06 Educational Leadership for the Ethos-Renewal of Research, Host, Ed Gabriele, UCSD, UCSD

3/13/07 Ethics and Research, Radiology Grand Rounds, UCSD

4/4/07 Ethics and Stem Cell Research, Stem Cell Research: An open conversation, UCSD Alumni Association, Institute of the Americas, UCSD

4/25/07 Research Records: If it's not written down, did it ever happen? Hillcrest Seminar Series, UCSD

4/25/07 Ethics at UCSD, Career Services, UCSD (with Tricia Bertram Gallant), UCSD

5/9/07 What is Research Ethics? Research Ethics Journal Club, UCSD

6/1/07 Research Ethics, National Center of Leadership in Academic Medicine, UCSD

6/20/07 New Rules for Clinical Trials: Good or Bad News? Biomedical Ethics Seminar Series (with Michael Caligiuri), UCSD

6/27/07 Ethics in Science and Research, STARS Summer Workshop, UCSD

7/12/07 Introduction to Research Ethics, Hughes Scholars., UCSD

7/24/07 Introduction to Research Ethics, Physics REU Research Ethics Workshop, UCSD

11/13/07 James Watson and Racism, Hughes Scholars, UCSD

1/14/08 Research Ethics, Symposium Discussion, Undergraduate discussion group, UCSD

10/4/08 Research Ethics, Ophthalmology Workshop, UCSD

10/29/08 Introduction to Research Ethics: Human Subjects, Seminar in Genetics (BIOM242), UCSD

11/19/08 Ethics and Statistics, Statistical and Computational Methods in Neuroscience (NEU 225), UCSD

1/29/09 Introduction to Research Ethics, Introduction to Bioengineering (BENG 1), UCSD

2/21/09 Responsible Conduct of Research, How to Write and Publish a Scientific Paper Workshop (Postdoctoral Researchers), UCSD

2/25/09 Introduction to Ethics and Bioethics for Bioengineers, Professional Issues in Bioengineering (BENG 191), UCSD

2/25/09 Two-minute Talks, Ethics and Survival Skills in Academia (PATH/COGS/NEUR 241), UCSD

3/12/09 Mock ESCRO, Interinstitutional Stem Cell Core Course (CMM 250), UCSD

6/4/09 Research Ethics: Conflicts of Interest, PTSD/TBI INTRuST Consortium Meeting, UCSD

7/13/09 What's ethics got to do with it? Health Sciences A-Z Training Series, UCSD

10/12/09 ESCRO, Health Sciences A-Z Training Series, UCSD

10/13/09 Responsible Conduct of Research, Mouse Histopathology (PATH 234), UCSD

10/23/09 Research Ethics Workshop, SDREC, UCSD

11/10/09 Ethics and Statistics, Statistical and Computational Methods in Neuroscience (NEU 225), UCSD

11/11/09 Animal Use in Research, Seminar in Genetics (BIOM242), UCSD

11/12/09 Ethics in Research and Engineering, Introduction to Structures (SE 1), UCSD

1/27/10 Introduction to Ethics for Scientists and Engineers, Introduction to Bioengineering (BENG 1), UCSD

2/4/10 The ethics of science, Undergraduate Workshop (BILD 95), UCSD

2/6/10 Medicine, Research, and Ethics: Can we have it all? Health Law Workshop, UCSD

2/10/10 Introduction to Ethics and Bioethics for Bioengineers, Professional Issues in Bioengineering (BENG 191), UCSD

3/11/10 Mock ESCRO, Interinstitutional Stem Cell Core Course (CMM 250), UCSD

4/29/10 Ethics and Stem Cell Research, Biomedical Ethics (PHIL 163), UCSD

6/4/10 Introduction to Research Ethics, National Center of Leadership in Academic Medicine, UCSD

8/27/10 Faculty Research Ethics Workshop, Research Ethics Program, UCSD

10/14/10 Research Ethics, Fellowship on Biological Psychiatry and Neuroscience, UCSD

10/26/10 Ethical Challenges for Genomics and Personalized Medicine, Applied Genomic Technologies (BENG 183), UCSD

11/29/10 CTRI Ethics, Clinical and Translational Research Institute Staff Meeting, UCSD

1/18/11 Mentoring, Ethics and Survival Skills in Academia (PATH/COGS/NEUR 241), UCSD

1/19/11 Introduction to Ethics for Scientists and Engineers, Introduction to Bioengineering (BENG 1), UCSD

1/26/11 Introduction to Ethics and Bioethics for Bioengineers, Professional Issues in Bioengineering (BENG 191), UCSD

1/27/11 Mock ESCRO Session, Interinstitutional Stem Cell Core Course (CMM 250), UCSD

2/1/11 Two-minute Talks, Ethics and Survival Skills in Academia (PATH/COGS/NEUR 241), UCSD

3/1/11 Medicine, Research, and Ethics: Can we have it all? Health Law Workshop, UCSD

3/29/11 Responsible Conduct of Research, Mouse Histopathology (PATH 234), UCSD

3/30/11 Incidental Findings, Seminar in Genetics (BIOM242), UCSD

4/28/11 Authorship and Credit, Personal Ethics in the Workplace (MGT 16), UCSD

4/29/11 Introduction to Research Ethics, National Center of Leadership in Academic Medicine, UCSD

5/24/11 Ethics and Animal Use in Research, Mouse Models of Human Disease (PATH 223), UCSD

6/3/11 Medicine, Research, and Ethics: Can we have it all? CVD/Epi T32 Lecture Series, UCSD

6/30/11 Medicine, Research, and Ethics: Can we have it all? Moores Cancer Center Clinical Research Education Series, UCSD

10/4/11 Human Subjects, Graduate Epidemiology Seminar (FPM258), UCSD

10/4/11 Introduction to Ethics for Engineers, Structural Engineering Seminar (SE290), UCSD

10/10/11 Authorship: Are there any standards? Pathology Research Lecture Series, UCSD

10/19/11 Immortal Life of Henrietta Lacks, Genetics Training Grant Journal Club, UCSD

10/24/11 Introduction to Ethics for Engineers and Scientists, Jacobs School of Engineering, UCSD

12/12/11 Introduction to Research Ethics, CAMP Summer Research Program, UCSD

1/8/12 Social Media, Biological Psychiatry and Neuroscience, UCSD

2/21/12 Stem cell ethics, Core course in Stem Cell Biology (CMM250), UCSD

4/16/12 Does it matter if we can't prove teaching ethics works? UCSD Program in Gene Therapy

4/17/12 Animal use in research, Osher Lifelong Learning Institute, UCSD

4/23/12 Human subjects, Preventive Medicine Residents, UCSD

5/15/12 Responsible conduct of research, Mouse Histopathology (PATH234), UCSD

5/23/12 Why do bad things happen in science? Hillcrest Biomedical and Clinical Research Seminar, UCSD

5/29/12 Ethics: Research on pregnant women, UCSD

6/5/12 Questions in research ethics, Pharmacology Retreat, UCSD

8/24/12 Research Misconduct: Why do bad things happen in science? Neuropathology Journal Club, UCSD

9/17/12 Why worry about research ethics? Physics Grad Student Orientation, UCSD

10/3/12 Research Ethics, Patient-oriented Research II (CLRE256), UCSD

10/9/12 Introduction to Research Ethics, Public Health Doctoral Lecture Series (FPM258), UCSD

10/10/12 Research Ethics, Patient-oriented Research II (CLRE256), UCSD

10/24/12 Research Ethics, Patient-oriented Research II (CLRE256), UCSD

10/31/12 Research misconduct: Why do bad things happen in science? Structural Engineering Seminar (SE290), UCSD

11/8/12 Research Ethics, Career Development Seminar, Pediatrics Fellows, UCSD

12/4/12 Public Conversations: Why do scientists need to hear from you, and how? Town and Gown, UCSD

1/24/13 Research Ethics Update: What should you know? Fellowship on Biological Psychiatry and Neuroscience, UCSD

2/15/13 Data Management and Conflicts of Interest, Interdisciplinary Research Fellowship in NeuroAIDS, UCSD

3/15/13 Misconduct and Social Responsibility, Interdisciplinary Research Fellowship in NeuroAIDS, UCSD

3/20/13 Conflicting interests for academic-industry collaborations, Biomedical Ethics Seminar Series, UCSD

4/2/13 Research Ethics, Patient-oriented Research II (CLRE256), UCSD

4/20/13 Research Ethics, Patient-oriented Research II (CLRE256), UCSD

5/14/13 Research Ethics, Patient-oriented Research II (CLRE256), UCSD

4/9/14 Overview of UCSD Ethics Program, Visitor's Program, UCSD

4/30/14 Ethics, Good Science, Intelligence, and Bias in Diversity, Equity and Inclusion Course, UCSD

6/4/14 Reproducibility, Pharmacology Retreat, UCSD

7/9/14 Introduction to Research Ethics, Competitive Edge Undergrads, UCSD

7/14/14 Introduction to Research Ethics, Moores UCSD Cancer Center's Science Enrichment Program

8/18/14 Introduction to Research Ethics, UCSD Postdocs

9/18/14 Navigating the Ethical Waters of Graduate School, Grad Students, UCSD

9/19/14 Introduction to Research Ethics, Physics Grad Students, UCSD

10/2/14 Research Ethics, Psychology Trainees & Faculty, UCSD

11/4/14 Ethics in Science and Research, Grad Students, BGGN 200, UCSD

11/5/14 Technology, Ethics, Your Students, and You in TeacherTech Computer Science Series, UCSD

11/12/14 Research Ethics, REU Students, Temporal Dynamics Learning Center, UCSD

12/2/14 Collaboration and Authorship, UCSD Postdocs

12/9/14 Introduction to Research Ethics, UCSD Postdocs

1/13/15 Introduction to Research Ethics, UCSD Postdocs

1/16/15 Research Misconduct, Whistleblowing, & Social Responsibility, Research Fellows in NeuroAIDS, UCSD

2/3/15 Reproducibility, UCSD Postdocs

2/11/15 Introduction to Research Ethics, BENG 191/291 Undergrads and Grads, UCSD

2/19/15 Introduction to Research Ethics, Fellows in Biological Psychiatry & Neuroscience, UCSD

2/25/15 Ethics in Science and Engineering, Bioengineering Undergrads, BENG1, UCSD

3/20/15 Data Management, Bias, Conflicts of Interest, Research Fellows in NeuroAIDS, UCSD

4/7/15 Ethics, Issues in Bioinformatics (CSE190/BILD94), UCSD

4/7/15 Image Manipulation, UCSD Postdocs

4/10/15 Introduction to Research Ethics, NCLAM: SOM Assistant Professors, UCSD

4/15/15 RE Workshop Ethics Courses, Faculty, UCSD

4/16/15 Introduction to Research Ethics, CSE 237D (grads and undergrads), UCSD

4/29/15 CRISPR/CAS9, BIOM 242: Seminar in Genetics (Training Grant Grad Students), UCSD

5/13/15 Getting Research Ethics Out of the Classroom, Hillcrest Researchers, UCSD

5/15/15 Human and Animal Subjects, Research Fellows in NeuroAIDS, UCSD

5/19/15 Diversity and Ethics, DEI Course (BILD60), UCSD

6/30/15 Introduction to Research Ethics, Academic Enrichment Program Undergrads, UCSD

8/4/15 Social Responsibility, UCSD Postdocs

8/11/15 Informal Introduction to research ethics, Radiology T32 Residents, UCSD

9/11/15 Introduction to Research Ethics, Clinical Research Coordinators, UCSD

9/14/15 Introduction to Research Ethics, Physics Grad Students, UCSD

10/8/15 Research Ethics, UCSD/VA Psychology Internship Seminar. Department of Psychiatry

10/13/15 Introduction to Research Ethics, UCSD Postdocs

11/9/15 Introduction to Research Ethics, Temporal Dynamics Learning Center, UCSD

11/14/15 Helping ethics keep up with science, Residents, UCSD

1/7/16 Introduction to Research Ethics, Fellowship in Biological Psychiatry, UCSD

1/11/16 Overview of REP at UCSD, Graduate Students Association, UCSD

1/19/16 Diversity and Ethics, BILD 60: Undergrads, DEI Course, UCSD

2/10/16 Data Acquisition and Managing Bias, UCSD Postdocs

2/24/16 Ethics in Science and Engineering, Bioengineering Undergrads, BENG1, UCSD

2/25/16 Should we worry about misconduct, Osher Lifelong Learning Institute, UCSD

3/30/16 Introductory Lecture, Scientific Ethics, Chem/Biochem Grads, UCSD

4/1/16 Introduction to Research Ethics, NCLAM: SOM Assistant Professors, UCSD

4/14/16 Ethics, Crucial Conversations, Revelle College Council, UCSD

4/18/16 Medical Controversies: Medical/Research Ethics, BISP 170: BioScholars, UCSD undergrad bio honor society

4/19/16 Introduction to Research Ethics, BENG 191/291 Undergrads and Grads, UCSD

4/19/16 Introduction to Research Ethics, Revelle College Honors Freshmen, UCSD

4/22/16 Peer Leadership Workshop, UCSD Grads & Postdocs

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| 4/28/16 | Research Ethics Cases, CREST POR II Students, UCSD |
| 5/12/16 | Research Ethics Cases, CREST POR II Students, UCSD |
| 6/8/16 | Image Manipulation, UCSD Postdocs |
| 6/29/16 | Introduction to Research Ethics, Academic Enrichment Program Undergrads, UCSD |
| 6/29/16 | Introduction to Research Ethics, NSF REU - Center for Aerosols Impacts on Climate and the Environment (CAICE), UCSD |
| 7/27/16 | Introduction to Research Ethics, Bioengineering REU, UCSD |
| 8/10/16 | Sabotage, UCSD Postdocs |
| 8/17/16 | Introduction to Research Ethics, UCSD Postdocs |
| 9/16/16 | Introduction to Research Ethics, Physics Grads Orientation, UCSD |
| 9/22/16 | Introduction to Research Ethics, Law and Ethics Seminar Series, UCSD |
| 10/10/16 | Introduction to Research Ethics, BENG191/291, UCSD |
| 10/12/16 | Crucial Conversations, UCSD Postdocs |
| 2/2/17 | Introduction to Research Ethics, Revelle College Honors Freshmen, UCSD |
| 2/7/17 | Crucial Conversations, UCSD Postdocs |
| 3/8/17 | Introduction to Research Ethics, Bioengineering Undergrads, UCSD |
| 3/9/17 | Introduction to Research Ethics, IRACDA Postdoctoral Fellows, UCSD |
| Summer 2017 | Introduction to Research Ethics, CAICE |
| Summer 2017 | Introduction to Research Ethics, Bioengineering |
| Summer 2017 | Introduction to Research Ethics, Summer Research Program |
| Summer 2017 | Crucial Conversations, Office of Postdoctoral & Research Scholar Affairs |
| Fall 2017 | Professional Issues in Bioengineering (BENG 191/291) Introduction to Research Ethics, Physics Image Manipulation, Office of Postdoctoral & Research Scholar Affairs Introduction to Research Ethics, Office of Postdoctoral & Research Scholar Affairs Introduction to Research Ethics, Psychiatry Introduction to Research Ethics, Radiology |
| Winter 2018 | Introduction to Bioengineering (BENG 1) Embedded Systems Design Project (CSE 145/237D) Independent Study Project (CLRE 295B) Authorship: Expectations and Collaborations, Office of Postdoctoral & Research Scholar Affairs |

Spring 2018 Research Survival Skills (CHEM 250)
 Data Acquisition, Integrity and Ownership, Office of Postdoctoral & Research Scholar Affairs
 Introduction to Research Ethics, NCLAM
 Reasons for ethics regulations for Lab group, Orthopaedic Surgery
 Talking to your PI: Crucial Conversations, Office of Postdoctoral & Research Scholar Affairs

Summer 2018 Introduction to Research Ethics, Summer Research Program
 Introduction to Research Ethics, CAICE
 Misuse of Statistics, Office of Postdoctoral & Research Scholar Affairs
 Introduction to Research Ethics, Radiology
 RCR Introduction for UCSD Postdocs, Office of Postdoctoral & Research Scholar Affairs
 Introduction to Research Ethics, Psychiatry

Fall 2018 Introduction to Research Ethics, Physics
 Introduction to Research Ethics, Psychiatry
 Reproducibility, Office of Postdoctoral & Research Scholar Affairs
 Is the science all you have to worry about?, Biology
 Image Manipulation, Office of Postdoctoral & Research Scholar Affairs

Winter 2019 Professional Issues in Bioengineering (BENG 191/291)
 Independent Study Project (CLRE 295B)
 Introduction to Bioengineering (BENG 1)
 Introduction to Ethics in Science and Technology, Osher Lifelong Learning Institute
 Introduction to Research Ethics, Pediatrics
 Talking to your PI: Crucial Conversations, Office of Postdoctoral & Research Scholar Affairs
 Introduction to Research Ethics, NCLAM
 Reproducibility, Research Ethics Program

Spring 2019 Research Survival Skills (CHEM 250)
 Embedded Systems Design Project (CSE 145/237D)
 Scientific Ethics, Research Ethics Program
 Data Acquisition, Integrity, and Ownership, Office of Postdoctoral & Research Scholar Affairs
 Overview of Research Ethics, Summer Research Medical Students
 Authorship: Expectations and Collaborations, Office of Postdoctoral & Research Scholar Affairs

Summer 2019 Introduction to Research Ethics, Summer Research Program
 Introduction to Research Ethics, CAICE
 Overview of Research Ethics, Summer Research Medical Students
 Introduction to Research Ethics, Future Faculty of Cardiovascular Sciences

Misuse of Statistics for UCSD Postdocs, Office of Postdoctoral & Research Scholar Affairs

- Fall 2019
- Professional Development (NANO282)
 - Introduction to Research Ethics, Physics
 - Introduction to Research Ethics, Psychiatry
 - Reproducibility, Office of Postdoctoral & Research Scholar Affairs
 - Genetic Privacy, Center for Ethics in Science and Technology
 - Image Manipulation, Office of Postdoctoral & Research Scholar Affairs
- Winter 2020
- Introduction to Bioengineering (BENG 1)
 - Panel Moderator, Center for Medical Genetics
 - Good practices of research, Gordon Center
 - Research Ethics, Neurocritical Care
 - Impact Factor, Radiology
 - Reproducibility, Gordon Center
- Spring 2020
- Introduction to Research Ethics, NCLAM
 - Image Manipulation, Office of Postdoctoral & Research Scholar Affairs