

CURRICULUM VITAE

Michael Kalichman

Research Ethics Program
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EDUCATION

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

CURRENT APPOINTMENTS

- 2005-present Co-Chair
 Embryonic Stem Research Oversight Committee, University of California, San
 Diego (UCSD)
- 2004-present President
 Responsible Conduct of Research Education Consortium
- 2004-present Co-Founder and Co-Director
 San Diego Center for Ethics in Science and Technology
- 2000-present Adjunct Professor
 Department of Pathology, UCSD
- 1997-present Director, Research Ethics Program
 School of Medicine and Office of Graduate Studies and Research, UCSD

PAST RESEARCH AND ACADEMIC APPOINTMENTS

1994-2000	Associate Adjunct Professor Department of Pathology, UCSD
1987-1994	Assistant Professor in Residence Department of Anesthesiology, UCSD
1986-1999	Research Pharmacologist Research, VA Medical Center, San Diego
1986	Assistant Research Anesthesiologist Department of Anesthesiology, UCSD
1985-1986	NIH Postdoctoral Trainee Department of Pathology, UCSD
1984-1985	Postgraduate Research Anesthesiologist Department of Anesthesiology, UCSD
1983-1984	Research Physiologist Neurology Research, VA Medical Center, San Diego
1982-1983	Postdoctoral Scholar Department of Neurosciences, UCSD
1981-1982	Postdoctoral Associate (National Research Council) Naval Health Research Center, San Diego

RESEARCH INTERESTS

As a postdoctoral researcher and Assistant Professor in the UCSD 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.

Over the past 15 years, 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 should be set by working scientists. Because of my contributions, I was appointed Director of the UCSD 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. To achieve this goal, I have developed collaborations with colleagues at numerous institutions, including Harvard, Massachusetts Institute of Technology, UC San Francisco, University of Minnesota, University of Pittsburgh, University of Washington, and Virginia Commonwealth

University. I also now lead a newly created national organization, the Responsible Conduct of Research Education Consortium, and am co-director of a new project for the San Diego region, the Center for Ethics in Science and Technology.

CURRENT MEMBERSHIPS

2003-present	Society for Research Administrators International
1999-present	Sigma Xi
1997-present	Association for Practical and Professional Ethics
1995-present	Peripheral Nerve Society
1994-present	American Physiological Society
1991-present	American Society for Pharmacology and Experimental Therapeutics
1986-present	American Association of Neuropathologists
1981-present	Society for Neuroscience

ACADEMIC SERVICE

2005 – present	Co-Chair, Embryonic Stem Cell Research Oversight Committee, UCSD
2004 – 2005	Member, Drug Importation Brainstorming Group
2004	Participant, SIO-SOM Collaboration Mini-retreat, Oct. 7, 2004
2004	Chair, ad hoc committee for inquiry into allegation of research misconduct
2003 – present	Member, UCSD Investigations Workgroup
2003 – 2005	Director, Pathology Research Lecture Series
2002 – 2003	Member, ad hoc committee charged with resolving data ownership dispute
2002	Chair for ad hoc committee charged with inquiry into allegation of research misconduct
2000 – 2001	Ex Officio member, Animal Care Advisory Committee
Winter 2000	Member, Search Committee for Director for Animal Care Program
Fall 2000	Chair, Pathology ad hoc committee
1998 – present	Member, Career Advisory Committee Neurosciences Graduate Program, UCSD
1998 – 2005	Leading of ad hoc committee to revise UCSD Integrity of Research Policy and Procedures
1998 – 2001	Graduate Advisor Neurosciences Graduate Program, UCSD
1998-2001	Member, Executive Committee Neurosciences Graduate Program, UCSD
1998	Chair, Core Curriculum Committee Neurosciences Graduate Program, UCSD
1997 – present	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.
1997 – present	Assistance with responding to allegations of research misconduct; resource for faculty, students, and staff regarding concerns about the conduct of research
1997 – 2002	Member, Executive Committee Molecular Pathology Graduate Program, UCSD
1995-2001	Member, Minor Proposition Committee Neurosciences Graduate Program, UCSD
1995-1998	Member, Core Curriculum Committee Neurosciences Graduate Program, UCSD

GRANT AND CONTRACT FUNDING

- 2004-2006 *Ethics Center Planning Grants*
Legler Benbough Foundation
PI: MW Kalichman
- 2004 *Research on Research Integrity Conference Grant*
Office of Research Integrity (ORI), DHHS
PI: MW Kalichman
- 2004 *Ethics Center Conference Grant*
Richmond Foundation
PI: MW Kalichman
- 2004 *Ethics Center Planning Grant*
Parker Foundation
PI: MW Kalichman
- 2003 *Conference Grant*
Legler Benbough Foundation
PI: MW Kalichman
- 2002 – 2005 *An Online Resource for Instruction in the Responsible Conduct of Research*
Department of Energy
PI: MW Kalichman
- 2002 – 2004 *Biotechnology and Bioethics: Challenges to Innovation*
Department of Energy
Co-Investigator: MW Kalichman (PI: E Frieman)
- 2002 – 2003 *IRB Enhancement Grant*
National Institutes of Health
Subcontract: MW Kalichman (PI: E Holmes)
- 2001 – 2006 *Training in Clinical Research Ethics* (NIH K01 AI01591)
Department of Health and Human Services (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 – 2003 *An Online Resource for Instruction in the Responsible Conduct of Research*
Office for Human Research Protections (OHRP), DHHS
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
- 1992 – 1993 *Osmotic properties of endoneurial fluid* (UCSD Academic Senate)
PI: MW Kalichman
- 1991 – 1994 *Recovery from focal nerve injury* (VA)
PI: MW Kalichman
- 1991 – 1992 *Efficacy and neural toxicity of local anesthetics in diabetes*
Academic Senate
PI: MW Kalichman
- 1988 – 1991 *Chemical and physical neurolysis* (VA)
PI: MW Kalichman
- 1987 – 1992 *Local anesthetic neurotoxicity in the spinal cord* (NIH NS24833)
PI: MW Kalichman
- 1987 – 1992 *Pathogenesis of toxic and metabolic neuropathies* (NIH NS14162)
Co-investigator (PI: HC Powell)
- 1987 – 1992 *Pathogenesis and treatment of nerve injuries* (NIH NS18715)
Co-investigator (PI: RR Myers)
- 1987 – 1988 *Electrophysiological quantification of nerve injury* (Academic Senate)
PI: MW Kalichman
- 1986 – 1989 *Pathophysiology of nerve injury* (VA)
Co-investigator (PI: RR Myers)
- 1986 – 1988 *Structural analysis of the pathological valve mechanism in nerve blood vessels* (Whitaker Foundation)
PI: MW Kalichman
- 1984 – 1987 *Neurotoxicity of local anesthetics* (NIH NS18715)
Co-investigator (PI: RR Myers)
- 1983 – 1984 *Efficacy and toxicity of antiepileptic drugs* (VA Coop. Study #118)
Research Physiologist
- 1981 – 1982 *Anticonvulsant and hypnotic properties of the benzodiazepines*
(National Research Council)
Postdoctoral Associate

INVITED SERVICE, LECTURES AND WORKSHOPS

State and National Service (by invitation or appointment)

- 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"
- 2003 – present Member and chair, executive committee, RCR Education Consortium
- 2002 – present 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]
- 2001 – 2003 Member, interim steering committee, RCR Education Consortium
- 2001 – present Member, RCR Working Group, UC Office of the President
- 2001 Member, organizing committee, conference on Responsible Conduct of Research, PRIM&R [May 17-9, 2001]
- Dec. 1, 2001 Participant, 3rd Education Summit, Boston, MA
- Aug. 17, 2001 Participant, 2nd Education Summit, Lenox, MA
- May 25, 2001 Participant, UC RCR Working Group, Oakland, CA
- May 16, 2001 Participant, Interim Education Summit, Crystal City, VA
- Feb. 23, 2001 Participant, Education Summit
Office of Research Integrity, Office for Human Research Protections, Food and Drug Administration, and other federal agencies, Bethesda, MD
- August 2, 2000 Reviewer of Draft PHS Policy on Instruction in the Responsible Conduct of Research, NIH, Bethesda, MD

Selected Invited Lectures and Workshops (1999-2004)

- Oct. 28, 2004 RCR102: Cases (4 hrs)
PRIM&R Workshop, San Diego, CA
- Oct. 28, 2004 RCR102: Fundamentals (4 hrs)
PRIM&R Workshop, San Diego, CA
- Oct. 26, 2004 Beyond Regulations: From compliance to integrity in research ethics (3 hrs)
Session, SRA International Annual Meeting, Salt Lake City, UT

- Oct. 23, 2004 Ethical Challenges in Human Subjects Research (3 hrs)
Workshop, SRA International Annual Meeting, Salt Lake City, UT
- Oct. 22, 2004 Is Compliance Enough? From compliance to integrity in research ethics (3 hrs)
Naval Institute for Dental and Biomedical Research, Great Lakes, IL
- Oct. 22, 2004 Authorship: Who's on first and who's not? (2 hrs)
Naval Institute for Dental and Biomedical Research, Great Lakes, IL
- Oct. 21, 2004 What is Responsible Conduct of Research and Why should it be taught? (2 hrs)
Northern Illinois University, DeKalb, IL
- Sept. 14, 2004 Who needs ethics? (2 hrs)
Flora Thornton Bioethics Seminar Series
Keck Graduate Institute, Claremont, CA
- June 28, 2004 What more needs to be accomplished? (1-1/2 hrs)
Keynote lecture, RCR Education Summit
Michigan State University, East Lansing, MI
- June 22, 2004 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
- April 22, 2004 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
- March 15, 2004 Collaboration and Authorship: Sharing the Blame? (1 hr)
Burnham Institute, San Diego
- Feb. 26, 2004 Defining a Curriculum in Research Ethics: Challenges and Solutions
Association for Practical and Professional Ethics Annual Meeting,
Cincinnati, OH
- Jan. 22, 2004 Who Decides? (ethical challenges to human subjects research)
Midwest Bioethics Center, Kansas City, MO
- Dec. 5, 2003 Why Teach Responsible Conduct of Research?
Association of Chairs of Departments of Physiology, St. Kitts, West Indies
- Nov. 20, 2003 Ethical Dilemmas in Gene Transfer Research (1 hr)
Scripps Clinic, San Diego, CA
- Aug. 17, 2002 Update on RCR education (1 hr)
Collaborative Interinstitutional Training Initiative, Seattle, WA
- Aug. 15, 2002 RCR101: selected topics (4 hrs)
Protecting Human Subjects: Safety, welfare, and privacy, Seattle, WA

June 21, 2002 RCR101 on the road (8 hrs)
Border Health Research, El Paso, TX

May 6, 2002 Programs to promote responsible conduct of research
Council of Science Editors, San Diego, CA

April 26, 2002 Can Ethics Be Taught? (2 hrs)
Institute for Continued Learning (ICL) Distinguished Faculty Lecture, UCSD

March 23, 2002; RCR101 (8 hrs)
PRIM&R Workshop, Boston, MA

March 18, 2002 Is teaching research ethics a waste of time? (1 hr)
SOMA Faculty Distinguished Lecture, UCSD

March 4, 2002 Ethics of Human Research
Topics and Advances in Internal Medicine, San Diego

Feb. 5, 2002 Authorship: Who, Why, and Why not? (1 hr)
Burnham Institute, San Diego

Dec. 5, 2001 Strategies for Promoting Responsible Conduct of Research
Council of Graduate Schools, San Diego

Dec. 1, 2001 RCR101 (8 hrs)
PRIM&R Workshop, Boston, MA

Nov. 10, 2001 Ethics Discussions (2 hrs)
Survival Skills Workshop, Society for Neuroscience, San Diego, CA

Oct. 8, 2001 Proposal for a UC Systemwide Program of Instruction in the Responsible
Conduct of Research (1/2 hr)
UCORP, Berkeley, CA

Aug. 6, 2001 Scientific Ethics: What are our responsibilities as facility managers?
Microscopy Society of America, Long Beach, CA

July 24, 2001 Conflict of Interest (1 hr)
Geriatric Psychiatry Summer Research Institute, San Diego, CA

July 24, 2001 What is Research Misconduct? (2 hrs)
Vaccine Research Institute of San Diego

June 13, 2001 Authorship and Credit (1 hr)
Center for Reproduction of Endangered Species, San Diego, CA

May 19, 2001 Computer-based Instruction in the Responsible Conduct of Research
Promoting Responsible Conduct of Research (PRIM&R Conference)

May 18-19, 2001 PRIM&R RCR Conference, Crystal City, VA

May 18, 2001 Developing Curricula (Panel Moderator)
Promoting Responsible Conduct of Research (PRIM&R Conference)

- May 17, 2001 RCR 101
PRIM&R Workshop, Crystal City, VA
- March 27, 2001 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
- March 27, 2001 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
- March 13, 2001 Collaboration in Science: Principles and Practice (1 hr)
Burnham Institute, La Jolla, CA
- Feb. 24, 2001 Host, UC RCR Working Group, UCSD
- Feb. 23, 2001 Online Resource for Instruction in Responsible Conduct of Research:
rcr.ucsd.edu
Education Summit, Bethesda, MD
- Nov. 16, 2000 Collaboration in Science: Principles and Practice (1 hr)
Sanger Visiting Professor, Virginia Commonwealth University, Richmond, VA
- Oct. 17, 2000 Ethics for Biomedical Trainees: What, Why, and How?
AAMC Group on Graduate Research, Education, and Training, Savannah, GA
- Oct. 13, 2000 The New PHS Policy: Instruction in the responsible conduct of research (1 hr)
Society of Research Administrators, Salk Institute, La Jolla, CA
- July 19, 2000 Ethical theories, principles, and concepts in biomedical research (2 hrs)
The Scripps Research Institute (Inaugural lecture for new series in research
ethics)
- July 13-14, 2000 Conflict of Interest (2 days)
Visiting Professor, Mayo Clinic, Rochester, MN
- May 22, 2000 Questioning the integrity of science (5 hrs)
Acadia Pharmaceuticals (inaugural lecture in research ethics), San Diego, CA
- April 9, 2000 Success and Survival in Academia (1/2 hr)
CAMP Statewide Undergraduate Research Symposium, San Diego, CA
- Feb. 29, 2000 Authorship Credit: Who decides? (1 hr)
Burnham Institute, San Diego, CA
- Oct. 30, 1999 Teaching the teachers: Can ethics and responsibility be taught? (2 hrs)
Student Pugwash USA, Washington, DC

Misc. Lectures and Workshops (1988-1999)

- 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
- Workshop on *Dimensions of Authorship*
Virginia Commonwealth University, Richmond, VA
- 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
- 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
- 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
- Statistics and Quality Control*
Osler Institute Pathology Board Review Course, Anaheim, CA
- Panelist, *Ethics in Scientific Publication*
Society for Scholarly Publishing 20th Anniversary Conference, San Diego, CA
- Do Scientists Cheat? A seminar on scientific ethics*
The Burnham Institute, La Jolla, CA
- Bioethics*
Science Career Day, American Women in Science, Qualcomm, San Diego, CA
- Misconduct in academia: Problems and solutions*
Institute for Continued Learning, UCSD, La Jolla, CA
- 1997 Plenary session on *Ethics Education Across Science and Medicine*
40th Annual Meeting of Council of Biology Editors, Philadelphia
- Workshop on *Teaching Responsible Scientific Conduct*
Annual Meeting of Society for Neuroscience, New Orleans
- Workshop on *Teaching Responsible Science*
National Academy of Sciences, Washington, D.C.

- 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
Statistics and Quality Control
Osler Institute Pathology Board Review Course, San Diego, CA
- 1990 *Training Biomedical Investigators in the Laboratory* (workshop)
Data access and sharing (workshop)
Biomedical Research Integrity in the '90s
Sponsored by NIH, AAMC, and UCSD
La Jolla, California
- 1988, 1990 *Neurotoxicity of local anesthetics* (lectures)
Alumnus Update Course and Department of Anesthesiology
Loma Linda University, Loma Linda, California

TEACHING

Current and Ongoing Teaching

- 2000 – present *15-20 seminars on ethics given by invitation each year in various courses and programs (including Departments of Pathology, Medicine, Family and Preventive Medicine) at UCSD*
- 1999 – present *Scientific integrity* (Internet-based course) (12 weeks)
Research trainees, UCSD
- 1997 – present *Professional Roles and Responsibilities* (Fall, Winter, Spring)
Preparing Professional Faculty, Center for Teaching Development, UCSD
- 1996 – present *Research Ethics* (1 or 2 lectures)
Contemporary Topics in Pharmacology (BIOM 231/BMS 219) for Graduate students in Biomedical Sciences, UCSD
- 1996 – present *Ethics and survival skills in academia* (SOM 241) (30 hours)
Graduate students and Postdocs, UCSD
- 1995 – present *Scientific ethics* (SOM 226) (15 hours)
Research trainees, School of Medicine, UCSD
- 1994 – present *Research ethics* (4 hours)
Summer Medical Student Research and Medical Scientist Training Programs, School of Medicine, UCSD
- 1986 – present Over 75 students trained in my laboratory under various UCSD programs and with supplemental funds from NIH for training undergraduate underrepresented minority students.

Teaching (1982-2002)

- 1999 Guest lecturer, *Animal research Ethics and Society* (Philosophy 27), UCSD
- 1998 – 2002 *Scientific Communication* (NEU 251) (20 hours)
Graduate students, UCSD
- 1998 *The peripheral nervous system; Research ethics*
Howard Hughes Program Seminars, UCSD
- 1993 – 2002 *Statistical methods and experimental design*, NEU 225 / PATH 232 (20 hours)
Neurosciences and Molecular Pathology Graduate Programs, UCSD
- 1993 *Standards of scientific conduct* (seminar)
Graduate students, Department of Chemistry, UCSD

- Do scientists cheat?* (8 hours)
Undergraduate Seminar (Third 90), UCSD
- 1992 *Local anesthetic-induced nerve injury* (seminar)
Neurosurgery Research Conference Series, UCSD
- Ethics and science* (seminars)
Departments of Otolaryngology, Anesthesiology, and Pathology, UCSD
- 1991 *Resident Research Reviews* (16 hours)
Department of Anesthesiology, UCSD
- Science: Quantity or quality?* (seminar)
Molecular Pathology (Seminar 225)
Department of Pathology, UCSD
- 1990 *Data ownership and sharing* (seminar)
Cancer Center, UCSD
- Resident Research Reviews* (12 hours)
Department of Anesthesiology, UCSD
- Peripheral Nervous System* (18 hours)
Undergraduate Course, UCSD
- 1989 *Methods of Research* (8 hours), *Methods of Experimental Science* (8 hours)
Undergraduate Courses, UCSD
- 1988 *Scientific Methods* (18 hours)
Department of Anesthesiology, UCSD
- 1987 – 2002 *Peripheral Nerve Journal Club* (Weekly conference)
- 1986 – 1988 *Statistics, Neurotoxicity of local anesthetics* (seminars)
Department of Anesthesiology, UCSD
- 1994 – 2002 *Neuropathology Research Conference* (Monthly conference)
- 1984 *Anatomical Basis of Clinical Neuropharmacology, NS 275*
Coordinator & lecturer, 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
- Epilepsy Seminar Series*
Coordinator & lecturer, Neurology, VA Medical Center, San Diego
- 1982 – 1984 *Neurophysiology Seminar Series*
Coordinator, Neuroscience 244, UCSD

BIBLIOGRAPHY

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.
30. Kalichman MW, MT Sanicolas, MC Jorge, L Roux (1994): Effects of cocaine on blood flow and prostaglandin metabolites in rat sciatic nerve. *Am J Physiol* 266: H2515-H2519.
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.
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