

**PROPOSAL TO THE NOMINATING COMMITTEE:
MEMBERS SUITABLE FOR NOMINATION TO THE IUTOX EXECUTIVE
COMMITTEE FOR THE PERIOD 2019-2022**

Proposal due to Barbara Hales at the [IUTOX Secretariat](#) by: **November 19, 2018**
Please include a short CV for the nominee

PROPOSAL SUBMITTED BY

Member Society: [Academy of Toxicological Sciences \(ATS\)](#)

IUTOX Member Society representative submitting nomination:

Name: [Ruth A. Roberts, PhD, ATS, FBTS, ERT, FRSB, FRCPATH](#)

Position: [President, Academy of Toxicological Sciences](#)

Signature: 

Date: November 16, 2018

BIOGRAPHICAL DETAILS OF PROPOSED CANDIDATE

Name of proposed candidate: [Dave Eaton, PhD DABT ATS](#)

Signature of proposed candidate: 

Nomination for officer or director may be indicated: [Officer or Director](#)

Date of Birth: August 15, 1952

Current Position: Dean and Vice Provost Emeritus, The Graduate School,
University of Washington, Seattle, WA

Address: 35656 S. Borago Ct, Tucson, AZ. 85739

Nationality: USA

Scientific Field: Toxicology

Education:

1978 University of Kansas Medical Center, Kansas City, KS, **PhD**, (Pharmacology)

1974 Montana State University Bozeman, Montana, **BSc**, (Pre-medicine)

Professional positions held (with dates):

3/15/2013-3/15/2018 **Dean and Vice Provost**, The Graduate School, University of Washington

10/2010-7/2011 **Interim Vice Provost for Research**, University of Washington, Seattle, WA

2006-2013 **Associate Vice Provost for Research**, University of Washington, Seattle, WA

2003-present **Adjunct Professor**, Department of Medicinal Chemistry, School of Pharmacy, University of Washington, Seattle, WA

2000-Present **Affiliate Member**, Public Health Sciences Division, Fred Hutchinson Cancer Research Center, Seattle, WA

1998-present **Professor**, Public Health Genetics Program (UIF), School of Public Health & Community Medicine, University of Washington

1995-2015 **Director**, Center for Ecogenetics and Environmental Health, University of Washington

1992-Present **Professor**, Department of Environmental and Occupational Health Sciences, School of Public Health and Community Medicine, University of Washington

2003-2007 **Associate Director**, Fred Hutchinson Cancer Research Center / University of Washington / Childrens' Hospital and Medical Center *Cancer Center Research Consortium* (FHCR/UC/CHMC CCRC)

1999-2005 **Associate Dean for Research**, School of Public Health and Community Medicine, University of Washington

1991-1993 **Associate Chairman**, Department of Environmental Health, School of Public Health and Community Medicine, University of Washington

1986-1991 **Director**, Toxicology Program, Department of Environmental Health, School of Public Health and Community Medicine, University of Washington

1986-1992 **Associate Professor**, Department of Environmental Health, School of Public Health and Community Medicine, and Institute for Environmental Studies, College of Arts and Sciences, University of Washington

1979-1986 **Assistant Professor**, Department of Environmental Health, School of Public Health and Community Medicine, and Institute for Environmental Studies, College of Arts and Sciences, University of Washington

1978-1979 **Postdoctoral Fellow** in Toxicology, Department of Pharmacology, University of Kansas Medical Center, Kansas City, KS

1974-1978 **Predoctoral Trainee**, US Public Health Service, Department of Pharmacology, University of Kansas Medical Center, Kansas City, KS

1974 **Research Assistant**, Dept. Chemistry, Montana State University, Bozeman, MT

IUTOX positions held (with dates):

Councilor, International Union of Toxicology (IUTOX), 2001-04

Member, Executive Committee, International Congress on Toxicology VII, 1993

Chairman, Local Arrangements Committee, International Congress on Toxicology VII, 1992

Member Society positions held (with dates):

Member, Planning Committee, *Future of Toxicology II* Symposium Society of Toxicology, 2013-14

Member, NAS/NRC Committee on the Future of Science at the EPA, 2011-2012.
Chair, Audit Committee, Society of Toxicology, 2012 (member, 2010-11).
Member, 50th Anniversary Planning Task Force, Society of Toxicology, 2007-2009
Board of Trustees, Academy of Toxicological Sciences, 2005-08
Chair, Society of Toxicology Task Force on NIH Grant Reviews, 2004-2007
Past-President, Society of Toxicology, 5/1/02-4/30/03 (President, 5/1/01-4/30/02; Vice-President, 5/1/00-4/30/01, Vice-President-elect, 5/1/99-4/30/00).
Member, Board of Publication, Society of Toxicology, 2001-02
Member, Society of Toxicology Task Force on Professional Society Liaison Roles, 2004.
Member, Finance Committee, Society of Toxicology, 2001-02
Secretary, Society of Toxicology, 1996-98 (Secretary-elect, Society of Toxicology, 1995-96)
President, Mechanisms Specialty Section, Society of Toxicology, 1996-97
Councilor, Mechanisms Specialty Section, Society of Toxicology, 1990-93
Chairman, Membership Committee, Society of Toxicology, 1992-93
Membership Committee, (elected committee), Society of Toxicology, 1990-93
Board of Directors, American Board of Toxicology, Inc., 1990-94
Member, Society of Toxicology *ad hoc* "Tox-90's Education Committee," 1988-1991
Committee on Public Communications, Society of Toxicology, 1984-1985

Professional memberships and/or awards:

International Society for the Study of Xenobiotics (ISSX), 1992-present
American Association for Cancer Research, 1988 – present
Molecular Epidemiology Group, 1999-present
Sigma Xi 1987-present
Pacific Northwest Association of Toxicologists (Northwest Chapter, SOT)
Society of Toxicology, 1984-present
American Association for the Advancement of Science, 1977-present

Excellence in Pharmacology/Toxicology Award, PhRMA Foundation, 2015
Public Communications Award, Society of Toxicology, 2014
PANWAT Achievement Award, Pacific Northwest Society of Toxicology, 2014
Elected Member, Institute of Medicine (now National Academy of Medicine), National Academies of Science Engineering and Medicine, 2011
Elected Fellow, Washington Academy of Sciences, 2011
National Associate, National Academy of Sciences, selected 2004 (lifetime membership)
Fellow (Elected), Academy of Toxicological Sciences, 2000
Fellow, International Union Against Cancer, 1996
Fellow (elected), American Association for the Advancement of Science, 1995
Zeneca Traveling Lectureship Award (Society of Toxicology), 1995
Achievement Award, Society of Toxicology, 1993
Rohm & Haas Distinguished Professor of Public Health Sciences, 1992-97

CURRICULUM VITAE

1. BIOGRAPHICAL INFORMATION

DAVID L. EATON, PhD, DABT, FATS

Professor of Environmental and Occupational Health Sciences
School of Public Health;
Dean and Vice Provost Emeritus, The Graduate School
4225 Roosevelt Way, NE, Suite 100
University of Washington
Seattle, Washington 98195
email: deaton@uw.edu; toxdok@gmail.com

2. EDUCATION

1978 University of Kansas Medical Center, Kansas City, KS, **PhD**, (Pharmacology)
1974 Montana State University Bozeman, Montana, **BSc**, (Pre-medicine)

3. LICENSURE / CERTIFICATION

Diplomate of the American Board of Toxicology, 1981, recertified 1985, 1990, 1995, 2000, 2005, 2010, 2015

4. PROFESSIONAL POSITIONS

3/15/2013-3/15/2018 **Dean and Vice Provost**, The Graduate School, University of Washington
10/2010-7/2011 **Interim Vice Provost for Research**, University of Washington, Seattle, WA
2006-2013 **Associate Vice Provost for Research**, University of Washington, Seattle, WA
2003-present **Adjunct Professor**, Department of Medicinal Chemistry, School of Pharmacy, University of Washington, Seattle, WA
2000-Present **Affiliate Member**, Public Health Sciences Division, Fred Hutchinson Cancer Research Center, Seattle, WA
1998-present **Professor**, Public Health Genetics Program (UIF), School of Public Health & Community Medicine, University of Washington
1995-2015 **Director**, Center for Ecogenetics and Environmental Health, University of Washington
1992-Present **Professor**, Department of Environmental and Occupational Health Sciences, School of Public Health and Community Medicine, University of Washington
2003-2007 **Associate Director**, Fred Hutchinson Cancer Research Center / University of Washington / Childrens' Hospital and Medical Center *Cancer Center Research Consortium* (FHCRC/UW/CHMC CCRC)
1999-2005 **Associate Dean for Research**, School of Public Health and Community Medicine, University of Washington

- 1991-1993 **Associate Chairman**, Department of Environmental Health, School of Public Health and Community Medicine, University of Washington
- 1986-1991 **Director**, Toxicology Program, Department of Environmental Health, School of Public Health and Community Medicine, University of Washington
- 1986-1992 **Associate Professor**, Department of Environmental Health, School of Public Health and Community Medicine, and Institute for Environmental Studies, College of Arts and Sciences, University of Washington
- 1979-1986 **Assistant Professor**, Department of Environmental Health, School of Public Health and Community Medicine, and Institute for Environmental Studies, College of Arts and Sciences, University of Washington
- 1978-1979 **Postdoctoral Fellow** in Toxicology, Department of Pharmacology, University of Kansas Medical Center, Kansas City, KS
- 1974-1978 **Predoctoral Trainee**, US Public Health Service, Department of Pharmacology, University of Kansas Medical Center, Kansas City, KS
- 1974 **Research Assistant**, Dept. Chemistry, Montana State University, Bozeman, MT

5. HONORS, AWARDS, FELLOWSHIPS,

Excellence in Pharmacology/Toxicology Award, PhRMA Foundation, 2015
Public Communications Award, Society of Toxicology, 2014
PANWAT Achievement Award, Pacific Northwest Society of Toxicology, 2014
Elected Member, Institute of Medicine (now National Academy of Medicine), National Academies of Science Engineering and Medicine, 2011
Elected Fellow, Washington Academy of Sciences, 2011
National Associate, National Academy of Sciences, selected 2004 (lifetime membership)
Fellow (Elected), Academy of Toxicological Sciences, 2000
Fellow, International Union Against Cancer, 1996
Fellow (elected), American Association for the Advancement of Science, 1995
Zeneca Traveling Lectureship Award (Society of Toxicology), 1995
Achievement Award, Society of Toxicology, 1993
Rohm & Haas Distinguished Professor of Public Health Sciences, 1992-97
NIH Pharmacology Research Associate Program Postdoctoral Fellowship Award, 1979-1981 (declined)

6. PROFESSIONAL ACTIVITIES (Outside of UW)

A. Professional Organizations

International Society for the Study of Xenobiotics (ISSX), 1992-present
American Association for Cancer Research, 1988 – present
Molecular Epidemiology Group, 1999-present
Sigma Xi 1987-present
Pacific Northwest Association of Toxicologists (Northwest Chapter, SOT)
Society of Toxicology, 1984-present
American Association for the Advancement of Science, 1977-present

B. Scientific Advisory Boards and Panels - National

Review Coordinator, *Review of Report and Approach to Evaluating Long-Term Health Effect in Army Test Subjects*”, NASEM/BEST report, March, 2018

Chair, National Toxicology Program Peer Review Panel, NTP Technical Reports on Cell Phone Radiofrequency Radiation Studies. March 21-23, 2018, NIEHS, RTP, NC.

Reviewer, NASEM report *Review of Advances Made to the IRIS Process*, March 2018

Chair, NAS/NAM/NRC, Committee on the Review of the Health Effects of Electronic Nicotine Delivery Systems, 2017.

Member, Search Committee, Director of the Division of the National Toxicology Program (NTP), NIEHS, Research Triangle Park, NC, October, 2016-

Review Coordinator, Protocols for Conducting Systematic Reviews of Selected Endocrine-Disrupting Chemicals, National Academy of Sciences / National Research Council, 2016

Member, Society of Toxicology Foundation Endowment Board, 2015-

Review Coordinator, Styrene Assessment in the NTP 12th Report on Carcinogens, National Research Council, 2014-15

Member, University of North Carolina-Chapel Hill Gillings School of Public Health, External Advisory Committee, 2014, 2015

Member, Governmental and Regulatory Affairs Committee, Council of Graduate Schools, Washington, DC 2012-present

Member, Board of Trustees, Health and Environmental Sciences Institute (HESI) 2014-2015

Member- National Advisory Environmental Health Sciences Council (NIH/NIEHS Council), 2013-2017.

Member, External Science Advisory Board, Center for Research on Environmental Disease, Texas A&M University/Baylor College of Medicine, Houston, TX, 2014-2016.

Member, NAS/NRC Committee to Review the EPA IRIS process, 2012-2014.

Chair, Celebrating Member Accomplishments Task Force, Society of Toxicology, 2011-2014

Member, Planning Committee, *Future of Toxicology II* Symposium Society of Toxicology, 2013-14

Member, NAS/NRC Committee on the Future of Science at the EPA, 2011-2012.

Chair, Research Committee, Health Effects Institute, Boston, MA, 2010-present

Member, External Science Advisory Board, Fundamental & Computational Sciences Directorate, Pacific Northwest National Laboratory, Richland, WA; 2011 - 2015.

Member, NAS/ Institute of Medicine committee on “Breast Cancer and the Environment: The Scientific Evidence, Research Methodology, and Future Directions”, 2010-2012.

External Reviewer, Cancer Research-United Kingdom; review of Cancer Center at University of Dundee, Scotland, June 17-18, 2010

Review Coordinator, NAS/IOM/NRC NRC Study on Toxicity Pathway-Based Risk Assessment: Preparing for a Paradigm Change. 2010.

Review Coordinator, NAS/IOM/NRC, Review of EPA’s Draft IRIS Assessment of Tetrachloroethylene (BEST-K-06-03-A), 2009 – 2010.

Chair, Audit Committee, Society of Toxicology, 2012 (member, 2010-11).

Member (elected), **Nominating Committee**, Society of Toxicology, 2005-06; 2007-08

Chair, NAS/NRC Committee for Review of the Federal Strategy to Address Environmental, Health, and Safety Research Needs for Engineered Nanoscale Materials, 2008

Member, 50th Anniversary Planning Task Force, Society of Toxicology, 2007-2009

Member, External Scientific Advisory Board, Semiconductor Industry Association, 2005-2009

- Chair**, External Science Advisory Board, Procter and Gamble, Central Product Safety Division, Miami Valley Laboratories, Cincinnati, OH, 2003-2012
- Member**, External Science Advisory Board, University of Montana Environmental Health Sciences Center, Missoula, MT, 2003-2008
- Member**, External Science Advisory Board, Harvard University Environmental Health Sciences Center, 2003- 2014
- Chair**, External Science Advisory Board, NCRR Institutional Development Award, University of Alaska BRIN/INBRE program, 2001-2013
- Member**, External Science Advisory Board, Center for Research on Environmental Disease, University of Texas-MD Anderson Cancer Center, Smithville, TX, 1998-2011.
- Editorial Board**, *Chemico-Biological Interactions*, 1998-present; *Toxicology Open journal*, 2007-present.
- Board of Trustees**, Academy of Toxicological Sciences, 2005-08
- Chair**, Society of Toxicology Task Force on NIH Grant Reviews, 2004-2007
- Board of Directors**, Toxicology Education Foundation, 2004-08; **Vice President**, 2005-06
- Member**, Search Committee, NIEHS Extramural Program Director, 2008
- Member**, Molecular Epidemiology Working Group Program Committee, AACR, 2007
- Member**, NIH/NIEHS Special Emphasis Panel, ONES program review, 2007
- Member**, External Science Advisory Committee, CIIT Centers for Health Research, 2005-2006
- Chair**, NAS/NRC IOM Committee on Assessment of the Health Implications of Exposure to Dioxins, 2004-06.
- Member**, external review team for the National Center for Toxicogenomics, NIEHS, 2005.
- Past-President**, Society of Toxicology, 5/1/02-4/30/03 (President, 5/1/01-4/30/02; Vice-President, 5/1/00-4/30/01, Vice-President-elect, 5/1/99-4/30/00).
- Chair**, NAS/NRC Committee on Emerging Issues and Data on Environmental Contaminants, 2002-2005
- Member**, Working Group on Gene-Environmental Interactions, National Children's Study, NIH, 2001-04.
- Ad hoc member**, NIH Study Section, Epidemiology of Cancer-2 (EDC-2), June, 2003, March 2004
- Member**, External Science Advisory Board, University of New Mexico Environmental Health Sciences Center, 2003-2005.
- Member**, External Science Advisory Board, NIEHS Center for Environmental Health Sciences, University of California-Davis, 1999-2005
- Member**, External Science Advisory Board, NIEHS Center for Rural Environmental Health, Texas A&M University, College Station, TX, 2001-2005
- Reviewer**, Cancer Research –United Kingdom program grant, University of Dundee, Scotland, 2004
- Councilor**, International Union of Toxicology (IUTOX), 2001-04
- Organizing Committee**, International Conference on Molecular and Genetic Epidemiology of Cancer, AACR- Molecular Epidemiology group, 2002-03
- Member**, Board of Publication, Society of Toxicology, 2001-02
- Member**, Society of Toxicology Task Force on Professional Society Liaison Roles, 2004.
- Member**, Finance Committee, Society of Toxicology, 2001-02
- Member**, NIH Center for Scientific Review, Digestive Disease Boundary Review Panel, 2002.
- Member**, Scientific Review Panel, Agricultural Health and Safety Centers, NIOSH, 2001.
- Member**, NAS/NRC Panel on Arsenic in Drinking Water, 2001
- Member**, AAAS Education Sub-Committee, *Court Appointed Scientific Experts (CASE)*, 2000-01
- Advisory Board**, BSCS, Inc, (Biological Sciences Curriculum Study), Colorado Springs, CO, 1999-2000

External Reviewer, Environmental Health Sciences Initiative, Battelle Pacific Northwest National laboratory, Richland, WA, 1999-2000

Member, Environmental Genome Working Group, NIEHS, 1997-98

Liaison, NRC/BEST Subcommittee on Arsenic in Drinking Water, 1997-98

Councilor, Mechanisms Specialty Section, Society of Toxicology, 1997-99

Member, Board of Environmental Studies and Toxicology, National Academy of Sciences/National Research Council, 1996-99

Secretary, Society of Toxicology, 1996-98 (Secretary-elect, Society of Toxicology, 1995-96)

Editor, SOT Communiqué, 1997-98

Visiting Scientist, International Agency for Research on Cancer (IARC), Lyon, France, 9/1/95-12/1/96.

President, Mechanisms Specialty Section, Society of Toxicology, 1996-97

Associate Editor, *Toxicology and Applied Pharmacology*, 1996-99

Editorial Board, *Oncology Reports*, 1994-97

Editorial Review Board, *Environmental Health Perspectives*, 1993-97.

Member, Executive Committee, International Congress on Toxicology VII, 1993

Chairman, Local Arrangements Committee, International Congress on Toxicology VII, 1992

External Grant Reviewer, Hong Kong Research Grants Council, University and Polytechnic Grants Committee, Hong Kong, 1992-93, 95-96, 99

Member, NIEHS Site Visit Team and Reviewer, Program Project Grant review, Oregon State University, 1992, 1993.

Editorial Board, *Environmental Carcinogenesis & Ecotoxicology Reviews*, 1992-present

Treasurer, American Board of Toxicology, Inc., 1991-94

Member, Science Advisory Board, The Institute for Wildlife and Environmental Toxicology, Clemson University, Clemson, SC. 1990-94; Chairman, 1993.

Councilor, Mechanisms Specialty Section, Society of Toxicology, 1990-93

Chairman, Membership Committee, Society of Toxicology, 1992-93

Membership Committee, (elected committee), Society of Toxicology, 1990-93

Board of Directors, American Board of Toxicology, Inc., 1990-94

Board of Publications, *Society of Environmental Toxicology and Chemistry*, 1989-91

Editorial Board, *Toxicology and Applied Pharmacology*, 1989-1996

Invited Participant, United States - Japan Cooperative Program on Development & Utilization of Natural Resources, Joint panel on toxic microorganisms symposium on "Cellular and Molecular Mode of Action of Selected Microbial Toxins in Foods and Feeds," National 4-H Center, Chevy Chase, MD, Oct. 31- Nov. 2, 1989

Member, Society of Toxicology *ad hoc* "Tox-90's Education Committee," 1988-1991

Invited Participant, Advisory workshop on significance and utilization of SARA Title III data, sponsored by USEPA, Chemical Manufacturer's Association and the National Academy of Sciences, NAS Headquarters, Washington, DC, Oct. 18-19, 1988

Participant, 1987 Gordon Research Conference on Mechanisms of Toxicity, Kimball Union Academy, Meriden, New Hampshire, July 27-31, 1987

Member, NIH *Ad Hoc* Scientific Review Panel for NIEHS contract on "Methods development for *in vitro* human metabolism of xenobiotics," February 19-21, 1985, Research Triangle Park, NC

Committee on Public Communications, Society of Toxicology, 1984-1985

C. Scientific Advisory Boards and Panels – Community and State (excluding UW)

Chair, Membership Committee, Washington State Academy of Sciences, 2017-18

Updated 04-01-2018

Co-Chair, Membership Committee, Washington State Academy of Sciences, 2016-17
Chair, Membership Committee, Section 4, Washington State Academy of Sciences, 2013-15
Member, Board of Directors, Washington State Academy of Sciences, 2012-18
Member, Board of Directors, Global Health Research Fund, (Gubernatorial appointment) 2011-2015
Member, Board of Directors, CARE Northwest, 1998-2008
Chair, Tobacco Control Advisory Committee, American Lung Association of Washington, 2002-2007
Member, Grant Advisory Committee, American Lung Association of Washington, 2003-2006
Member, Board of Trustees, Seattle Biomedical Research Institute (SBRI), 2004-2006
Member, Tobacco Control Advisory Committee, American Lung Association of Washington, 2000-02
Member, Advisory Committee for Risk Management Conference, Washington Foundation for the Environment, 1992-93.
Pacific Northwest Association of Toxicologists (Northwest Chapter, SOT); founding member, 1984-present, Vice President, 1984-1985; President, 1987-88, Councilor, 1988-89; Councilor, 1997-98
Member, Scientific Advisory Board, State of Washington Initiative For Chemically-Related Illness, Washington State Department of Labor and Industries, 1997
Member, Northwest Consumer Food Safety Council, 1990-94
Chairman, Science Advisory Board (5 member board established by Initiative, pre-empting above SAB), Washington State Department of Ecology, 1989-1991; Member 1989-92.
Member, Science Advisory Board (14 member board established under legislative act), Washington State Department of Ecology, 1988-90
Member, Technical Work Group on Environmental/Regulatory Policy for the Puget Sound Water Quality Authority, 1987
Site Visitor, Western Washington University, Bellingham, WA; Requested to evaluate current occupational health and safety practices relating to toxic chemical storage and use at Western Washington University. Provided written report to Dean of the Graduate School, October 8, 1986
Member, Mayor's Advisory Task Force on PCB's, 1984-86
Member, Advisory Task Force to Assess Health Impacts of Sediment and Shellfish pollution at Eagle Harbor, WA. For Coalition of County and State Health Departments. October 1984-85
Member, Mayor's Health Advisory Panel on Gas Works Park, 1984
Member, Gypsy Moth Advisory Committee, Department of Agriculture, Washington State Medical Association, and Office of the Mayor, City of Seattle, 1983
Member, Emergency Insect Criteria Committee, State Department of Agriculture, 1982-86
Member, Washington State Pesticide Advisory Board (Gubernatorial Appointment), 1982-1985, reappointed 1986-1989
Member, State Department of Social and Health Services, *Ad Hoc* Committee to Review Health Implications of Totally Recycled Water Systems, 1981

D. Manuscript Referee:

Aquatic Toxicology; Archives of Environmental Contamination and Toxicology; Biochemical Pharmacology; Biochemistry; ; Cancer Epidemiology, Biomarkers & Prevention; Cancer Research; Carcinogenesis; Chemico-Biological Interactions; Drug Metabolism & Disposition; Environmental Science and Technology; Fundamental and Applied Toxicology; Journal of Pharmacology and Experimental Therapeutics; Molecular Pharmacology Nature Reviews-Cancer; Proceedings of the National Academy of Sciences; Pharmacology & Toxicology; Toxicology and Applied Pharmacology; Toxicological Sciences.

7. BIBLIOGRAPHY

(*Indicates students, post-doctoral fellows or research technologists under the direction of Dr. Eaton).

A. RESEARCH PAPERS IN REFEREED JOURNALS

1. **Eaton DL**, Klaassen CD. Effects of acute administration of taurocholic and taurochenodeoxycholic acid on biliary lipid excretion. *Proc Soc Exp Biol Med* 151:198-202, 1975.
2. **Eaton DL**, Poisner AM. Plasma pseudorenin in rats after alteration in the renin-angiotensin system. *Proc Soc Exp Biol Med* 154:6-8, 1977.
3. **Eaton DL**, Klaassen CD. Carrier-mediated transport of ouabain in isolated hepatocytes. *J Pharmacol Exp Ther* 285:480-488, 1978.
4. Iwamoto I, **Eaton DL**, Klaassen CD. Uptake of morphine and nalorphine by isolated rat hepatocytes. *J Pharmacol Exp Ther* 206:181-190, 1978.
5. **Eaton DL**, Klaassen CD. Carrier-mediated transport of the organic cation procaineamide ethobromide by isolated rat liver parenchymal cells. *J Pharmacol Exp Ther* 206:595-606, 1978.
6. Iga T, **Eaton DL**, Klaassen CD. Uptake of unconjugated bilirubin by isolated rat hepatocytes. *Am J Physiol* 236:C9-C14, 1979.
7. **Eaton DL**, Klaassen CD. Effects of microsomal enzyme inducers on carrier-mediated transport systems in isolated rat hepatocytes. *J Pharmacol Exp Ther* 208:381-385, 1979.
8. **Eaton DL**, Klaassen CD. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin, kepone and polybrominated biphenyls on transport systems in isolated rat hepatocytes. *Toxicol Appl Pharmacol* 51:137-144, 1979.
9. **Eaton DL**, Stacey NH, Wong KL, Klaassen CD. Dose-response effects of various metal ions on rat liver metallothionein, glutathione, heme oxygenase and cytochrome P-450. *Toxicol Appl Pharmacol* 55:393-402, 1980.
10. **Eaton DL**. Biliary excretion of 2,4,5-trichlorophenoxyacetic acid in the rat. *Toxicol Lett* 14:175-181, 1982.
11. **Eaton DL**, *Toal BF. Evaluation of the Cd/hemoglobin affinity assay for the rapid determination of metallothionein in biological tissues. *Toxicol Appl Pharmacol* 66:134-142, 1982.
12. **Eaton DL**, *Toal BF. A simplified method of quantitating metallothionein in biological tissues. *J Sci Total Environ* 28:375-384, 1983.
13. *Carpenter LA, **Eaton DL**. The disposition of 2,4-dichlorophenoxyacetic acid (2,4-D) in the rainbow trout, *Salmo gairdneri*. *Arch Environ Contam Tox* 12:162-173, 1983.
14. *Stinson MD, **Eaton DL**. Concentrations of lead, cadmium, mercury and copper in the crayfish (*Pacifasticus lenisculus*) obtained from a lake receiving urban runoff. *Arch Environ Contam Toxicol* 12:693-700, 1983.
15. Woods JS, Fowler BA, **Eaton DL**. Studies on the mechanisms of thallium-mediated inhibition of hepatic mixed function oxidase activity: Correlation with inhibition of NADPH Cytochrome c (P-450) reductase. *Biochem Pharmacol* 33:571-576, 1984.
16. Woods JS, **Eaton DL**, *Lukens C. Studies on porphyrin metabolism in the kidney: Effects of trace metals and glutathione on renal uroporphyrinogen decarboxylase. *Mol Pharmacol* 26:336-341, 1984.
17. Kalman D, **Eaton DL**, Schumacher RS, Covert D. Biological availability of lead in a paint aerosol. I. Physical and chemical characterization of a lead paint aerosol. *Toxicol Lett* 22:301-306, 1984.

18. **Eaton DL**, Kalman DA, *Garvey D, Morgan M, Omenn GS. Biological availability of lead in a paint aerosol. 2. Absorption, distribution and excretion of intratracheally instilled lead paint particles in the rat. *Toxicol Lett* 22:307-313, 1984.
19. **Eaton DL**. *Short Communications*: Effects of various trace metals on the binding of cadmium to rat hepatic metallothionein determined by the Cd/hemoglobin affinity assay. *Toxicol Appl Pharmacol* 78:158-162, 1985.
20. *Monroe DH, *Holeski CJ, **Eaton DL**. Effects of single dose and repeated dose pretreatment with 2(3)-*tert*-butyl-4-hydroxyanisole (BHA) on the hepatobiliary disposition and covalent binding to DNA of Aflatoxin B₁ in the rat. *Food Chem Toxicol* 24:1273-1281, 1986.
21. **Eaton DL**, *Richards JA. Kinetic evaluation of carrier-mediated transport of ouabain and taurocholic acid in isolated rat hepatocytes. Evidence for independent transport systems. *Biochem Pharmacol* 35:2721-2725, 1986.
22. *Holeski CJ, **Eaton DL**, *Monroe DH, *Bellamy GM. Effects of phenobarbital on the biliary excretion of Aflatoxin P₁-glucuronide and AflatoxinB₁-S-glutathione in the rat. *Xenobiotica* 17:139-153, 1987.
23. *Monroe DH, **Eaton DL**. Comparative effects of butylated hydroxyanisole (BHA) on the *in vivo* and *in vitro* biotransformation of Aflatoxin B₁ (AFB) in rat and mouse. *Toxicol Appl Pharmacol* 90:401-409, 1987.
24. Geraci JP, Dunston SG, Jackson KL, Mariano MS, *Holeski C, **Eaton DL**. Bile loss in the acute intestinal radiation syndrome in rats. *Rad Res* 109:47-57, 1987.
25. **Eaton DL**, *Monroe DH, *Bellamy G and Kalman DA. Identification of a novel dihydroxy-metabolite of aflatoxin B₁ formed both *in vivo* and *in vitro* in rats and mice. *Chem Res Toxicol* 1:108-114, 1988.
26. Franzblau A, Rosenstock L and **Eaton DL**. Use of inductively coupled plasma-atomic absorption spectroscopy (ICP-AES) in screening for trace metal exposures in an industrial population. *Environ Res* 46:15-24, 1988.
27. *Monroe DH and **Eaton DL**. Effects of modulation of hepatic glutathione on biotransformation and covalent binding of aflatoxin B₁ to DNA in the mouse. *Toxicol Appl Pharmacol* 94:118-127, 1988.
28. *Ramsdell HS and **Eaton DL**. Modification of aflatoxin B₁ biotransformation *in vitro* and DNA binding *in vivo* by dietary broccoli in rats. *J Toxicol Environ Health* 25:269-275, 1988.
29. **Eaton DL**, *Stapleton PL. Simultaneous determination of cytosolic glutathione S-transferase and microsomal epoxide hydrolase activity toward benzo[a]pyrene-4,5-oxide by high performance liquid chromatography. *Analytl Biochem* 178:153-158, 1989.
30. *Ramsdell HS, **Eaton DL**. Species susceptibility to aflatoxin B₁ carcinogenesis: Comparative kinetics of biotransformation. *Cancer Res* 50:615-620, 1990.
31. *Ramsdell HS, **Eaton DL**. Mouse liver glutathione S-transferase isoenzyme activity toward aflatoxin B₁-8,9-epoxide and benzo[a]pyrene-7,8-dihydrodiol-9,10-epoxide. *Toxicol Appl Pharmacol* 105:216-225, 1990.
32. Kavanagh TJ, Grossmann A, Jaecks EP, Jinneman JC, **Eaton DL**, Martin GM, Rabinovitch PS. Proliferative capacity of human peripheral blood lymphocytes sorted on the basis of glutathione content *J Cell Physiol*, 145:472-480, 1990.
33. *Ramsdell HS, Parkinson A, Eddy C, **Eaton DL**. Bioactivation of aflatoxin B₁ by human liver microsomes. Role of cytochrome P450III A isoenzymes. *Toxicol Appl Pharmacol* 108:436-447, 1991.

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D. ABSTRACTS

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139. Smith WE, Tracy JH, White CC, Bammler TK, Xiaoge H, Xiaohu G, Kavanagh TJ and **Eaton DL**. 2009. Disposition of quantum dots in HepG2 cells and primary human hepatocytes. Society of Toxicology Annual Meeting, Baltimore, MD, March. Poster presentation.
140. Smith WE, Lin T, Tracy JH, White CC, Xiaoge H, Xiaohu G, **Eaton DL** and Kavanagh TJ. Effects of Quantum Dots on Cellular Stress Markers in HepG2 Cells. Society of Toxicology Annual Meeting, Salt Lake City, UT, March. SOT Abstracts 2010, #374.
141. *Smith WE, Ashfarinajad Z, Hu X, Gao X, **Eaton DL** and Kavanagh TJ. Gene expression changes induced by polymer-coated quantum dots in HepG2 cells. Pacific Northwest Association of Toxicologists Annual Meeting 2011, Bonneville Hot Springs, WA. Poster Presentation.
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143. *Smith WE, Brownell JL, Ashfarinajad Z, Hu X, Guo, X, Polyak SJ, **Eaton DL** and Kavanagh TJ. Polymer-coated quantum dots elicit a pro-inflammatory response in primary human hepatocyte cultures. Society of Toxicology Annual Meeting, Washington, DC, March. SOT Late-breaking Abstracts 2011, #2781.
144. *Smith WE, White CC, Brownell JL, Ashfarinajad Z, Hu X, Gao X, Polyak SJ, **Eaton DL**, and Kavanagh TJ. Differential gene expression changes in two human hepatocyte model systems to quantum dot exposure. Society of Toxicology Annual Meeting, San Francisco, CA, March. SOT Abstracts 2012, #1267.
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148. *Ward T, R. S. McMahan RS, White CC, Shang J, Hu X, Gao X, **Eaton DL**, Kavanagh TJ, Parks WC and Altemeier WA. *The Toxicologist* #419, 2014.
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150. *Cook TJ, Hoekstra JG, Stewart T, Canales KK, Ho P, Salvador AA, Gonzalez-Cuyar LF, Nelson G, Racette BA, Checkoway H, **Eaton DL** and Zhang J, Astroglial Mortalin Is Decreased in the Striatum of Manganese-Exposed Mine Workers and Enhances Neurotoxicity, *The Toxicologist* #2352, 2016.
151. *Chang S-Y, Weber E, Kelly EJ, **Eaton DL** and Neumann T. Microphysiological Systems (MPS) to Identify Organ-Organ Interactions in Toxicology: Hepatic Metabolism Enhances Nephrotoxicity of Aristolochic Acid, *The Toxicologist* #1105, 2016.

8. PATENTS AND OTHER INTELLECTUAL PROPERTY

License for rabbit polyclonal antibody towards human Catechol –O-Methyltransferase, UW TechTransfer, 2001.

Patent application # 11/867,299. Sulforaphane and structural analogs as antagonists of the human Pregnane X Receptor (PXR), 2007.

9. FUNDING HISTORY:

A. Active Grants

NIH 5-P30 ES07033 (Kavanagh, Center Director) 04/01/16 - 03/31/20 0.6 Cal Mo. FTE

PI : Terrance J. Kavanagh (2013-2019)

Title: Center for Exposures, Diseases, Genes & Environment (NIEHS Center Administrative Core)

Role: PI 1995-2013; Associate Director, 2013 - present. The major goal of this NIEHS Center Grant is to provide core support to enhance multidisciplinary collaborations among approximately 75 established investigators in the School of Public Health, School of Pharmacy, and the School of Medicine who are investigating the biochemical and molecular basis for human diseases with an environmental etiology.

EPA-G2013-STAR-L1 (Faustman) 12/1/2014 – 11/30/2018 0.6 Cal Mo FTE
Environmental Protection Agency \$6,000,000

Title: Predictive Toxicology Center for Organotypic Cultures and Assessment of AOPs for Engineered Nanomaterials

Role: Co-PI on liver microphysiological systems project. The overall goal of this Center is to develop innovative organotypic culture systems to better evaluate the potential for cellular and organ toxicity following exposure to Engineered Nanomaterials (ENMs) within an adverse outcomes pathway (AOP) model.

C. Completed Grants, 1985-2018

(DL Eaton, PI – excludes institutional and co-Investigator grants)

NSF DGE-1256082 \$ 34,227,534 7/29/2015 – 7/31/2018 no FTE

Title: Graduate Research Fellowship Program (GRFP)

Role: Institutional PI

The purpose of this amendment is to support the NSF graduate Fellows on tenure and on partial tenure at the University of Washington.

NIH UH2/UH3 7/1/2012-6/30/2017 0.6 Cal Mo.FTE:

PI: Jonathan Himmelfarb

Title: Integrated Microphysiological Systems For Drug Efficacy and Toxicity Testing in Human Health And Disease: Microphysiological Systems – Kidney

Role: co-Investigator on UH3 portion. This grant will develop the Nortis microphysiological system to utilized human kidney cells to study drug toxicity and efficacy.

U19 RFA ES -09-011 10/01/2010-9/30/2015 1.8 Cal Mo FTE

PI: Program Director, Terrance Kavanagh

Title: Linking the physical and chemical characteristics of Qdots to their toxicity.

Role: co-PI (with Bill Parks) PI for Project 1 – in vitro toxicology. This consortium program will identify physical and chemical characteristics of quantum dot (Qdot) nanoparticles associated with toxicity to cells and mice using genetic and epigenetic analyses. The In vitro Studies project will correlate the physical and chemical characteristics of quantum dots with quantitative measures of cytotoxicity in human- and mouse-derived model cell systems.

1 R01 GM079280-01A1 (D. Eaton, PI) 9/01/07 – 8/31/11 1.2 Person Months
NIH/NIGMS/NIEHS/NCI \$200,000 ADC
Isothiocyanates as specific antagonists of human SXR (currently on one year no cost extension)

Puget Sound Partners for Global Health 07/01/07 – 06/30/08 0.6 Person Months
PSPGH 2007-55, (D. Eaton, PI) \$70,000 ADC
Preventing drug-drug interactions in the treatment of TB in HIV/AIDS patients: an animal model

5R25 ES10738, (Eaton, PI) 09/30/00-08/31/08
NIH/NIEHS \$248,415 ADC
Environmental Health Sciences as an Integrative Context for Learning

1 U19 ES11387 (Eaton, PI) 09/30/01 - 08/31/08
NIH/NIEHS \$560,000 ADC
The FHCRC/UW Toxicogenomics Consortium.

RO1 ES05780-01-17, David L. Eaton, PI: 08/01/87 - 07/31/04 (to 8/01/05);
NIH/NIEHS \$266,142 (ADC); \$1,584,405 (TDC)
Species differences in biotransformation of aflatoxin

P42 ES04696 (H. Checkoway, Program Director) 04/01/00 - 03/31/05 .5 % FTE
NIH/NIEHS; Award Amount - Total Program \$1,989,426 ADC
Superfund Basic Research Program: Effects-Related Biomarkers of Toxic Exposure
DL Eaton, Deputy Director; (Administrative Core)

P42 ES04696 (sub-project) H. Checkoway, Program Director, and Project PI 04/01/00 - 03/31/05
NIH/NIEHS; Award amount: \$156,501 ADC: co-investigator, sub-project); 5 %
Environmental and Biochemical Risk Factors for Parkinson's Disease

R01 ES10750 (H. Checkoway PI). Gene/Environment Interactions in Parkinson's Disease 09/01/00 –
06/30/05: co-Investigator; 5%; NIH / NIEHS.

P42 ES04696 Superfund Basic Research Program, DL Eaton, Program Director (04/01/90 – 09/30/99);
~ \$2 million ADC (H Checkoway assumed Program Director responsibilities in 1999; DL Eaton
remained active as Deputy Director)

P42 ES04696 Superfund Basic Research Program – Project 1: Glutathione as a biomarker of toxic
exposure”, DL Eaton, Project PI, 04/01-85 – 09/30/96. (TJ Kavanagh assumed PI responsibility in
1996; DL Eaton continued as co-investigator).

R01 AG17635, David L. Eaton, PI 06/15/99-06/30/04
NIH/NIA \$188,383 ADC; \$731,755 TDC
Significance of Genetic Variation in Estrogen Metabolism”.

R25 ES08030 DL Eaton, PI 08/01/96-07/30/00
NIH/NIEHS \$100,000 ADC
Project Greenskate Teacher Training and Dissemination

R01 ES03933 DL Eaton, PI 05/01/86-04/30/99
NIH/NIEHS \$150,000 - \$200,000 , ADC
Modification of Aflatoxin Disposition by Enzyme Inducers / Effect of Enzyme Inducers on Liver
Preneoplastic Lesions,

R25 ES06938, DL Eaton, PI 07/01/94-06/30/97
Updated 04-01-2018

NIH/NIEHS \$100,000 ADC.
Risky Business: Living in a Chemical World

10. CONFERENCES AND SYMPOSIUMS / INVITED PRESENTATIONS

Seminar Speaker, SUNY-Stony Brook School of Medicine, “Using Microphysiological Systems to Identify ‘Organ-Organ Interactions’ in Toxicology: Effect of the Liver on Aristolochic acid Nephrotoxicity as a proof of concept”, June 25, 2016.

Invited Speaker, NIEHS-SOT 50th Anniversary Celebration, NIEHS, RTP, NC, July 13, 2016.

Kopriva Science Lecture, What Scientists Know- and Don’t Know-About the Causes of Cancer; Montana State University, Bozeman, MT, Oct. 8, 2013.

Keynote Speaker, Health Effects Institute Annual Meeting, Boston, MA, Gene-Environment Interactions in Air Pollution Research: Challenges and Opportunities, May 2, 2011.

Kuna Distinguished Annual Lecture, Environmental and Occupational Health Sciences Institute, Rutgers’s University/Robert Wood Johnson Medical School, Piscataway, NJ, May 6, 2010.

Invited Speaker, 10th Annual John Doull Symposium, University of Kansas Medical Center, *Modulation of Aflatoxin-DNA binding by phytochemicals in human hepatocytes* Sept. 3, 2009

Invited Speaker, NAS/IOM Workshop, *Environmental Health Science Decision Making: Risk Management, Evidence, and Ethics*, National Academy of Sciences, Washington DC. January 15, 2008,

Invited Representative (UW), Science and Technology in Society (STS) *forum*: “Harmony with Nature” and “Innovation”, Kyoto, Japan, Oct 7-9, 2007.

Invited Speaker, *The NAS and WHO on Dioxin and Dioxin Like Compounds: International Policy Implications and Potential Impact*, Michigan State University / NIEHS Superfund Basic Research Program Conference, Sept. 19, 2007.

Invited Participant, Western Library Association Annual Conference, ‘Open Access’, Tucson, AZ, Sept. 16-17, 2007.

Invited Speaker, NAS/NRC Workshop, *Quantitative Approaches to Characterizing Uncertainty in Human Cancer Risk Assessment Based on Bioassay Results* National Academy of Sciences, Washington DC, June 5, 2007.

Invited Speaker, Glutathione S-Transferases, Drug Metabolism short course, American Association of Pharmaceutical Scientists Annual Meeting, San Antonio, TX, Oct. 29, 2006.

Invited Speaker, Presidential Symposium, AAS Annual Meeting: “Risk-Risk Trade-offs: Public Health Examples- ‘Contaminated’ Drinking Water”, ST. Louis, MO, February 18, 2006.

Seminar Speaker, University of Wisconsin-Madison, Interdisciplinary Toxicology program, Oct. 20, 2005.

Discussion Leader, National Institute of Environmental Health Sciences Strategic Planning meeting, Oct. 18-19, 2005.

Invited Speaker, “Functional Genomics and Public Health Protection in the 21st Century”, 25th Anniversary Celebration of the National Toxicology Program, National Academy of Sciences, Washington, DC, May 11, 2005.

Organizer and Moderator, Issues Session, Society of Toxicology annual meeting; Reorganization of the NIH Grant review process and its potential impact on toxicology research and training. New Orleans, LA, March 9, 2005.

Invited Speaker, Agricultural Health Study Biomarker Workshop on Cancer Etiology, RTP, NC, sponsored by National Cancer Institute; March 2-3, 2005.

Invited Participant, Workshop on Genetics and Environmental Regulation, Arizona State University College of Law, Tempe, AZ, Jan. 13-14, 2005.

Updated 04-01-2018

- Invited Speaker**, NAS/IOM Conference on Implications of Genomics for Public Health, “Gene x Environment Interactions”, Oct. 7, 2004, National Academy of Sciences, Washington, DC.
- Invited Speaker**, North American Congress of Clinical Toxicology, “Liver Cancer”, Continuing Medical Education seminar on Insights into the Pathogenesis and Treatment of Toxin-induced Liver Disease”, Seattle, WA, Sept. 10, 2004.**Session Chair**, SOT/SETAC Pelston Workshop on “Emerging Molecular and Computational Approaches for Cross-Species Extrapolations”, held in Portland, OR July 18-22, 2004.
- Symposium Chair**, Novel approaches to engaging toxicologists in K-12 science education and outreach, Society of Toxicology Annual Meeting, Baltimore, MD, March 25, 2004.
- Invited Commentary**, NTP Board of Scientific Counselors Working Group on the National Toxicology Program Vision for the 21st Century, Baltimore, MD, March 25, 2004.
- Workshop Speaker**, Society of Toxicology Annual Meeting, “Working with Congress”, Baltimore, MD, March 23, 2004.
- Public Speaker**, What Scientists Know-and Don’t Know About the Causes of Cancer, Barrow, Alaska, Sponsored by Barrow Arctic Science Consortium; July 29, 2003.
- Invited Participant**, WHO/ICPS Planning Committee for ‘Environmental Health Criteria Document on Principles for Evaluating Health Risks in Children Associated with Exposure to Chemicals’, Seattle, WA July 24-25, 2003.
- Invited Speaker**, Science for Judges, “Scientific Judgment and Toxic Torts”, March 28, 2003, Brooklyn Law School, Brooklyn, New York.
- Co-Organizer**, Molecular and Genetic Epidemiology of Cancer, AACR/SOT sponsored meeting, “Impact of Molecular Epidemiology” (Session Chair), Jan 18-22, 2003, Kona, Hawaii.
- Invited Speaker**, “Toxicology Training in the 21st Century”, presented at a NIGMS Workshop on Pharmacological Sciences Training Program Needs, Bethesda, MD, 8/06/02
- Seminar Speaker**, University of New Mexico, School of Pharmacy, 4/22/02
- Seminar Speaker**, Columbia University School of Public Health, 4/16/02
- Seminar Speaker**, New York University, Nelson Institute for Environmental Medicine, 4/15/02
- Sitlington Distinguished Lecturer in Toxicology, 2001**, Oklahoma State University, “Molecular basis for species and interindividual differences in susceptibility to carcinogens: Aflatoxin B1 as an example”, Stillwater, OK 11/08-09/2001.
- Welcome and Introduction**, “Use of Genomic Information in Risk Assessment”, Current Concepts in Toxicology workshop, Bethesda, MD, Nov. 6-7, 2001.
- Invited Speaker**, American College of Occupational and Environmental Medicine annual meeting, “Use of genomic information in Environmental and Occupational Medicine”, Seattle, WA. Nov. 11, 2001
- Invited Speaker**, National Capitol Chapter, Society of Toxicology, “New Directions in Toxicology Education for the 21st Century”, Washington, DC, May 15, 2001.
- Invited Speaker**, “Understanding the Science of Toxicology”, for ‘New Directions in Expert Testimony: Scientific, Technical and Other Specialized Knowledge Evidence in Federal and State Courts’, American Law Institute-American Bar Association, San Francisco, CA, April 28, 2001.
- Seminar Speaker**, University of Colorado Health Sciences Center, “Molecular Basis for Species Differences in Aflatoxin Carcinogenesis”, Feb. 21-22, 2001.
- Invited Speaker**, “Environmental Pollution and Disease: Fact and Fiction”, Practical Primary Care Conference, Billings, MT, Oct. 27, 2000.
- Invited Speaker**, “Susceptibility to Disease and Human Genetic Variation: Implications of the Human Genome Project to the Practice of Medicine”, Practical Primary Care Conference, Billings, MT, Oct. 28, 2000.

- Invited Speaker**, Interindividual Differences in Response to Chemoprotection Against Aflatoxin-Induced Hepatocarcinogenesis: Implications of Human Biotransformation Enzyme Polymorphisms”, Sixth International Symposium on Biological Reactive Intermediates, Chemical and Biological Mechanisms In Susceptibility to and Prevention of Environmental Diseases, Paris, France, Université René Descartes, July 16-20, 2000.
- Invited Speaker**, “Genetics of Susceptibility to Environmental Factors”, International Conference on Arctic Development, Pollution and Biomarkers of Human Health, Anchorage, AK April 30-May 3, 2000.
- Invited Discussant**, “Legal Liabilities at the Frontier of Predictive Genetic Testing”, 2nd Annual Arizona State University-Smith Kline Beecham Conference on Genetics and the Law, Phoenix, AZ, April 7-8, 2000.
- Seminar Speaker**, University of Florida, The molecular Basis for species differences in carcinogenicity of the dietary carcinogen, aflatoxin B1, Jan. 21, 2000, Gainesville, FL.
- Invited Speaker**, 36th Annual Hanford Life Sciences Symposium, “Individual Susceptibility and Genetic Polymorphisms”, Oct. 19, 1999, Richland, WA.
- Invited Speaker**, American Chemical Society Continuing Education Course, Principles of Toxicology, “Quantitation in Toxicology”, and “Basic Principles and Approaches to Experimental Animal Testing in Toxicology”, April 27, 1999, San Francisco, CA.
- Invited Speaker**, Society of Toxicology, High School Teachers Program, Paracelsus Goes to School, “Genes, The Environment and Cancer”, March, 15, 1999, New Orleans, LA
- Invited Speaker**, Society of Toxicology Undergraduate Minority Student Program, “How Chemicals Act in the Body, March 14, 1999, New Orleans, LA
- Seminar Speaker**, University of Utah, “ Molecular basis for species differences in aflatoxin carcinogenesis”, November 23, 1998, Salt Lake City, UT.
- Invited Discussant**, “Genomic Research on Populations Exposed to Environmental Toxins: Ethical, Legal and Social Issues”, Nov. 13-14, 1998, Boston, MA.
- Seminar Speaker**, University of Texas-Houston Medical Center, “Molecular basis for species differences in aflatoxin carcinogenesis”, October 13, 1998, Houston, TX.
- Invited Speaker/Session Chair**, International Neurotoxicology Conference, Pesticides and Susceptible Populations, “Biotransformation Enzyme Polymorphisms and Pesticides Susceptibility”, Sept. 13, 1998, Little Rock, AR.
- Invited Speaker**, Toxicology Forum, “Genetic Polymorphism in the human Glutathione S-transferases: Implications for Human Health”, July 12-18, 1998, Aspen, CO.
- Invited Speaker**, American Chemical Society Continuing Education course “Toxicology for Chemists”, San Francisco, CA; April 1-3, 1998.
- Symposium Chair**, Society of Toxicology Annual Meeting, “The Epidemiology of Breast Cancer: Unraveling the Roles of Genetics, Lifestyle and Environmental Factors”, March 5, 1998.
- Invited Speaker**, “Cancer, Genes and the Environment”, lecture in high school workshop “Paracelsus goes to school”, Society of Toxicology Annual Meeting, March 2, 1998.
- Invited Speaker**, Society for Quality Assurance 13th annual meeting, “Liaison Organizations: Society of Toxicology”, October 23, 1997, Seattle, WA.
- Invited Speaker**, NATO Advanced Studies Institute, “Molecular and Applied Aspects of Oxidative Drug Metabolizing Enzymes”, August 31-Sept. 11, 1997, Antalya, Turkey
- Seminar Speaker**, Toxicology Training Program, Department of Environmental Medicine, University of Rochester, May 28, 1997
- Symposium Co-organizer and Speaker**, Society of Toxicology Annual Meeting, “Genetic Polymorphisms in the Glutathione-S-Transferases”, March 10, 1997.

- Invited Speaker**, ILSI Health and Environmental Sciences Institute, 1997 annual meeting: Emerging Issues in Risk Assessment: Gene-Environment Interactions, Miami Beach, FL, Jan. 21, 1997
- Invited Participant**, NCI Workshop on Diet, Nutrition, Cancer and Genetic Susceptibility, Jan. 22-23, 1997, Washington, DC.
- Plenary Speaker**, American College of Veterinary Pathologists, Gene-Environment Interactions: Significance of Human Biotransformation Enzyme Polymorphisms, Dec. 6, 1996, Seattle, WA.
- Symposium Speaker**, ISSX Annual Meeting: Dietary Modulation of Glutathione S-Transferases, Oct. 20-24, 1996, San Diego, CA
- Invited Speaker**, Gordon Research Conference on Drug Metabolism, "Class alpha glutathione S-transferases: mechanisms and relevance to variations in human cancer risk", July 7-12, 1996, Holderness, NH.
- Zeneca European Lecture Tour**: "Molecular basis for species differences in susceptibility to aflatoxin carcinogenesis", University of London, London, England, 8/1/96; University of Dundee, Dundee, Scotland, 8/8/96; University of Newcastle, Newcastle-Upon-Tyne, England, 8/14/96; Medical Research Council/University of Leicester, Leicester, England, 8/16/96; Zeneca International, Macclesfield, England, 8/18/96; University of Basel, Basel, Switzerland, 9/22/96; Lilly Development Center, Brussels, Belgium, 10/2/96; TNO Nutrition and Food Research Institute, Zeist, The Netherlands, 10/6/96.
- Invited Speaker**, "The role of cytochromes P450 and glutathione S-transferases in species differences in carcinogen metabolism", International Symposium: Evaluation of Butadiene & Isoprene Health Risks, Blaine, WA, June 27-29, 1995
- Invited Speaker**, "Genetic polymorphisms as susceptibility factors to environmental pollutants", 47th Annual meeting, American Academy of Forensic Sciences, Medical Toxicology Section Workshop, Seattle, WA February 14, 1995
- Seminar Speaker**, "Molecular basis for species differences in aflatoxin carcinogenicity", Duke Marine Sciences Center, Beaufort, NC July 19, 1993
- Seminar Speaker**, "Molecular basis for species differences in aflatoxin carcinogenicity", National Institutes for Environmental Health Sciences, Research Triangle Park, NC, April 27, 1993
- Seminar Speaker**, Toxicology Scholars Colloquium, "Molecular basis for species differences in aflatoxin carcinogenicity", University of Connecticut, Center for Biochemical Toxicology, Feb. 26, 1993
- Seminar Speaker**, Toxicology Scholar Seminar Series, "Molecular basis for species differences in aflatoxin carcinogenicity", Duke University Integrated Toxicology Program, Feb. 22, 1993
- Seminar Speaker**, "Molecular basis for species differences in aflatoxin carcinogenicity", University of California-Davis, Feb. 8, 1993
- Invited Speaker**, Rocky Mountain Academy of Occupational and Environmental Medicine Conference, "Risky Business: Clinical Toxicology & Environmental Health, and Relative Risk Assessment", Jan. 8, 1993
- Seminar Speaker**, Molecular basis for species differences in aflatoxin carcinogenicity, Chemical Industry Institute for Toxicology, Research Triangle Park, NC, June 4, 1992
- Invited Speaker**, "Risk Assessment in Managing Environmental Exposure Communications and Media Relations", Medical Group Management Association, Occupational Medicine Assembly Conference, Orlando, FL, February 18, 1992
- Invited Speaker**, "Principles of Toxicology; Metals Toxicology; Carcinogenesis, mutagenesis and Teratogenesis" lectures, as part of *Risk Assessment, Management and the Communication of Drinking water Contamination*, Continuing Education program sponsored by USEPA and NEHA, Portland, OR, June 27, 1991

- Invited Alumni Speaker**, “The biochemical and molecular basis for species differences in susceptibility to aflatoxin B₁ carcinogenesis”, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS April 9, 1991
- Invited Seminar Speaker**, “The biochemical basis for species differences in aflatoxin carcinogenicity”, Department of Environmental Health Sciences, Johns Hopkins University School Hygiene and Public Health, Baltimore, MD, February 12, 1990
- Invited Seminar Speaker**, “The role of biotransformation in species susceptibility to aflatoxin B₁ carcinogenesis”, Medical Research Council, Toxicology Division, Carlshalton, England, Sept. 5, 1989
- Participant and Presenter**, Third International Conference on Glutathione S-Transferases, “Conjugation of aflatoxin B₁-8,9-epoxide by human liver glutathione S-transferases”, Edinburgh, Scotland, August 31 - September 3, 1989
- Invited Guest**, National Public Radio Broadcast, Discussion on Alar in Apples, June 21, 1989
- Invited Speaker**, “Pesticides in Our Food and Water. Putting the Risks in Perspective”, public information seminar sponsored by the National Environmental Health Association Annual Meeting, Seattle, WA June 25, 1989
- Invited Speaker**, “Approaches to Risk Assessment and Risk Communication for Forest Use Herbicides”, presented to Regional Forest Managers and other agency officials, Portland, Oregon, April 16, 1987
- Invited Speaker**, “Estimating Occupational and Public Health Risks of Pesticides”, Northwest Aerial Applicators Association Convention, Pendleton, OR, November 12, 1986
- Invited Speaker**, “Toxicology of Wood Preservatives: Pentachlorophenol, Creosote and Arsenicals”, given for Montana Department of Agriculture as part of wood preservative applicators' certification training program, Kalispell and Helena, MT, September 30 and October 1, 1986
- Session Co-Chairman**, “Human Health Implications of Contaminated Seafood”, International Symposium on Toxic Chemicals and Aquatic Life: Research and Management; provided closing remarks and session summary, Seattle, WA, September 16-18, 1986
- Seminar Speaker**, “Effects of enzyme induction on hepatobiliary disposition and DNA binding of Aflatoxin B₁ in the rat”, presented at Philadelphia College of Pharmacy and Science, Department of Pharmacology and Toxicology, October 12, 1984

11. UNIVERSITY SERVICE

A. Committees

- Member**, Executive Committee, President’s Population Health Initiative, 2016-18
- Member**, Activity Based Budget Steering Committee, 2016
- Member**, International Travel Risk Policy Advisory Committee, 2015-18
- Member**, Graduation and Retention Task Force, 2015-18
- Member**, CoMOTION (Formerly C4C) Advisory Council, 2015-18
- Chair**, Industrial Relations Oversight Committee, 2015-18
- Chair**, Graduate Tuition Policy Committee, 2014-18
- Chair**, Review Committee, Dean of the School of Law, 2014-15
- Member**, Faculty Salary Policy Committee, 2013-2016
- Chair**, UW Board of Environmental Health and Safety, 2013-2017
- Member**, President’s Task Force on Sexual Assault Prevention, 2013-16
- Member**, President’s Advisory Committee on Enterprise Risk Management (PACREM), 2013-2016
- Updated 04-01-2018

Member, Board of Deans and Chancellors, 2013-2018
Member, Office of Research Proposal Review Committee, 2012-2018
Member, Search Committee, Director, Health Sciences Administration, 2011-12
Chair, Search Committee, Director for School of Fisheries and Aquatic Sciences, 2011-12
Member, UW Ocean Observing Initiative (OOI) Regional Scale Node Advisory Group, 2010-12
Member, Animal Facilities Renovation Advisory Committee, 2011-2013
Member, institutional review committee for School of Nursing, 2011-2012
Member, Search Committee, Dean for School of Dentistry, 2011-2012
Member, Activity Based Budgeting Advisory Committee, 2010-2011
Member, Research Roadmap Oversight Group, 2009-2010
Chair, Department of Environmental and Occupational Health Sciences PhD Oversight Committee, 2009-2010
Chair, Reduced Appointment Policy Committee, 2009-2010
Member, Search Committee, Dean, College of the Environment, 2009-2010
Member, Search Committee, Vice Provost for Global Affairs, 2008
Member, Internal Advisory Board, NHGRI ‘Genes and Environment’ Statistical Coordinating Center (Bruce Weir, PI), 2008-2018
Member, Internal Advisory Board, NHGRI ELSI Center of Excellence, Center for Genomics & Healthcare Equality, 2006-2012 (PI, Wylie Burke)
Chair, Office of Research Proposal Review Committee, 2006-12
Member, External Advisory Board, Berman Environmental Law Clinic, UW School of Law, 2004-08
Member, Selection Committee, Outstanding Graduate Student Mentor Award, 2000-2006
Research Advisory Board, Office of the Provost, 1999-2006
Member, Public Health Genetics Program Executive Committee, 1999-present
Member, Scientific Advisory Board, NIEHS/UW Center for Child Environmental Health Risks Research, 1999-2015
Affiliate Investigator, Regional Primate Research Center, UW, 1995-2010
Core Faculty Member, Environmental Pathology Training Grant, Department of Pathology, University of Washington, 1980-present
Member, Graduate Faculty, University of Washington, 1979-present
Member, UW Human Subjects Policy Board, 2004-2008
Member, UW Tuition and Fees Policy Advisory Committee, 2006-2007
Member, Search Committee, School of Pharmacy Dean, 2007
Member, UW Data Policy Committee, 2006-2007
Member, Search Committee, Associated Vice Provost for Research-Compliance and Operations, 2006
Member, 5-year review of Dean, School of Medicine, UW, 2004-05
Member, Search Committee, Chair of Department of Biostatistics, School of Public Health, 2004-05
Member, Search Committee for Chair of Dept. Comparative Medicine, School of Medicine, UW
Chair, Search Committee, Director of the Public Health Sciences Division Laboratory, Fred Hutchinson Cancer Research Center, 2003.
Member, Search Committee for Proteomics Faculty position, School of Pharmacy, 2003.
Member, Council of Fellows, Pacific Northwest National Laboratories – UW (UW/PNNL) Joint Institutes, 2001-2004
Member, Faculty Advisory Committee for Office of Intellectual Property, 2001-2003
Member, Dept. Health Services Research Committee, 2001-2003
Member, Search Committee for Dental School Dean, 2000-02
Member, Dept. Environmental Health Curriculum & Teaching Policy Committee, 2000-2002

Member, *Ad Hoc* Task Force on Human Subjects, Office of the Provost, 2000-01
Editorial Board, *Northwest Science and Technology*, 1999-2000
Member, Provost's Review Committee for Dean of Pharmacy, 2000
Member, Search Committee, Molecular Epidemiology Faculty position, Fred Hutchinson Cancer Research Center, Public Health Sciences Division, 1999; 2001
Chair, Faculty Council, School of Public Health and Community Medicine, 1998-99
Member, Dean Search Committee, School of Public Health and Community Medicine, 1997-98
Curriculum Committee, Public Health Genetics Program, 1998-
Organizing Committee, interdisciplinary program on Public Health Genetics in the Context of Law, Ethics, and Policy 1997
Member, Friday Harbor Laboratory Advisory Board, University of Washington, 1994-1999
Co-Chairman for Exhibits, University of Washington Health Sciences Open House, 1991
Member, Search Committee for new Chairman of Department of Environmental Health, 1990-91
Member, Civil Engineering Program Review Committee, University Programmatic Review by the Graduate School, 1990
Member, Environmental Studies Review Committee, campus-wide review of Environmental Studies programs and future directions, for the Office of the Provost, 1990
Chairman, University of Washington Technical Oversight and Advisory Committee for Ruston/Vashon Arsenic contamination remedial investigation feasibility study; consultant to Black and Veatch and Washington Department of Ecology, 1987
Member, Search Committee for Occupational Medicine faculty position, 1987
Member, Appointments, Promotions and Tenure Committee, Department of Environmental Health, 1986-1992
Member, Arsenic Pathways Review committee, to assist study group and local health departments interpret and present findings of CDC/UW. Arsenic Pathways Study, 1986
Member, Alcohol and Drug Abuse Institute Executive Council, 1986-1989
Member, Small Grants Review Committee, Alcoholism and Drug Abuse Institute, University of Washington, 1984-86
Chair, Curriculum and Teaching Policy Committee, Institute for Environmental Studies, 1983
Member, Search Committee for Dean of School of Public Health and Community Medicine, University of Washington, 1982
Member, Curriculum and Teaching Policy committee, Department of Environmental Health, 1981-86; Chairman, 1985-86
Member, Search Committee for Director of Laboratories, Department of Environmental Health, 1980.

B. Invited Lectures

UW Law School – *New Student Orientation* – ‘*Perspectives on Expert Witness Testimony*’, Sept. 18, 2009.
Dept. Environmental Occupational Health Sciences Seminar, Toxicology and Risk Assessment of Dioxins – the NRC Report, Jan 18, 2007.
School of Public Health Distinguished Faculty Lecturer, May 25, 2006.
UW Science Forum Speaker (University-wide Public Lecturer): Why me, Doc? What Scientists know – and don't know, about the causes of cancer, April 18, 2006.
Panel Moderator and Discussant, “Research in the Future: UW in 2040”, a special symposium in honor of President Lee Huntsman, June 4, 2004.

Updated 04-01-2018

- Invited Speaker**, Minority Undergraduate Program in Genome Sciences, Genes, Environment and Cancer, March 9, 2004.
- Invited Speaker**, Risk Communication: Going ‘right to know’ to ‘right to understand’., “Interpreting and communicating genetic risk information for susceptible populations”, April 3, 2003.
- Course Director and Speaker**, “Environmental Health for Reporters: Ethical and Policy Implications of the Human Genome Project and Genetic Research on Human Sensitivity to Environmental Pollutants”, 6/1/2001; “Is it in Your Genes, or the Environment? Why Some People Develop Chronic Diseases and Others Don’t”, University of Washington.
- Program Co-Organizer and Speaker**, “Environmental Health For Educators”, middle and high school teachers continuing education program, August 1997, August 1998, August 1999.
- Invited Speaker**, Summer Institute on Ecology & Environmental Sciences, National Science Teachers Association, “Genes, Environment and Cancer”, 7/17/96;
- Invites Speaker**, Science Enhancement for Teachers Program, “Chemicals and Cancer”, Biology Teaching Program, UW, May 16, 1996;
- Seminar Speaker**, “Glutathione S-transferases: Species and individual susceptibility to chemical carcinogens.” Department of Medicinal Chemistry, UW, March 11, 1993.
- Seminar Speaker**, “Delaney Amendment of Carcinogenic Substances”. The 1992 Symposium on Science, Technology, and Society, The Influence of Scientific Evidence on National Policy, April 28, 1992
- Seminar Speaker**, “Glutathione S-transferases: Species and individual susceptibility to chemical carcinogens.” Department of Environmental Health, UW, February 5, 1988
- Course Co-Organizer and Speaker**, “Working With Pesticides: Health and Safety Issues”, Northwest Center for Occupational Safety and Health, University of Washington, Seattle, WA, January 16, 1987
- Seminar Speaker**, “Role of Glutathione-S-Transferase in Detoxification of Aflatoxin B₁”, Department of Environmental Health, University of Washington, Seattle, WA, December 4, 1986
- Invited Speaker**, “Basic Principles of Toxicology”, given at “Worker Health and Safety at Hazardous Waste Sites”, continuing Education Program, Department of Environmental Health, University of Washington, Seattle, WA, December 4, 1986
- Panel Member and Discussant**, “Scientist and the Media: Making Headlines on Your Own Terms”, February 12, 1986; sponsored by University of Washington Medical Sciences Information Center
- Speaker and Program Moderator**, Professional exchange on hazardous/toxic substances in and around the home - use and disposal; sponsored by Institute for Environmental Studies, University of Washington, Seattle, WA, June 18, 1984
- Invited Speaker**, “Chemicals and cancer: Putting the risks in perspective”; Continuing Education Course, Biologists Look at Life and Human Affairs, Biology Program, University of Washington, Seattle, WA, April 16, 1984
- Course Organizer and Instructor**, “Legal aspects of toxicology”; Continuing Education Course, Educational Resource Center, Department of Environmental Health, University of Washington, SeaTac Hotel, Seattle, WA, December 2-3, 1983
- Course Organizer and Instructor**, “Principles and practice of toxicology in environmental health”; developed for Continuing Competency Education for Environmental Health Practitioners Program, University of Washington, Seattle, WA, January 25-March 15, 1982
- Speaker**, “Central nervous system effects of chemicals and physical agents”; Continuing Education Course, Educational Resource Center, University of Washington, Seattle, WA, April 20, 1981

- Invited Speaker**, “Heavy metals in the environment”; School of Public Health and Community Medicine's 10th Anniversary Celebration, University of Washington, Seattle, WA, September 25, 1980
- Invited Speaker**, “Occupational toxicology: principles of toxicology”; Department of Environmental Health Continuing Education Program, University of Washington, Seattle, WA, September 19, 1980
- Seminar Speaker**, “Carrier-mediated transport systems in isolated hepatocytes”; Department of Environmental Pharmacology, University of Washington, Seattle, WA, November 5, 1980
- Seminar Speaker**, “Effects of trace metals on metallothionein, glutathione, cytochrome P-450 and heme oxygenase activity in rats”, Department of Pathology, University of Washington. Seattle, WA, April 11, 1980.

13. PROFESSIONALLY-RELATED COMMUNITY SERVICE

- Invited Speaker**- Risk Assessment for Dioxins – NRC Panel Experience, US EPA/Wa State DOH, EPA Region 10 Offices, Seattle, Jan. 24, 2007, WA.
- Invited Speaker** – What Scientists Know- and don't Know- About the Causes of Cancer, Gilda's Club, Seattle, Jan 17, 2007.
- Invited Speaker**, Seattle Internal Medicine Group, ‘Genes, Environment and Cancer’, June 17, 2004.
- Invited Speaker**, “Implications of Genomic Information for Defining Susceptible Human Populations, USEPA, Region X, April 9, 2003.
- Invited Speaker**, “Risk Communication: going beyond ‘right to know’ to ‘right to understand’”, talk on Interpreting and Communicating genetic risk information for susceptible populations., Seattle, WA April 3, 2003.
- Invited Speaker**, Vashon Island Community Meeting, Health Risks from Arsenic in Soil, Vashon Island, WA, Nov. 18, 2002.
- Invited Speaker**, Washington State Board of Health, Genetics Working Group, “Basic Principles of Genomics in Public Health”, Jan. 3, 2002, Olympia, WA.
- Course Organizer and Speaker**, “Environmental and Occupational Health: A curriculum workshop for middle and high school educators”, Northwest Center for Occupational Safety and Health, UW, 7/19/96;
- Seminar Speaker**, “Small changes in enzyme structure can result in large changes in susceptibility to cancer”, Cancer Prevention Research Unit, Fred Hutchinson Cancer Research Center, 7/23/96;
- Invited Speaker**, Puget Sound Chapter, American Industrial Hygiene Assoc. “Genes, Environment and Cancer: Implications of the Human Genome Project”, 3/23/96
- Invited Speaker**, “Fundamentals of Toxicology”, Part 1 & Part 2, 1994 Northwest Federal Safety and Health Conference, Portland, OR, April 27, 1994
- Co-organizer and Speaker**: “Scientists in the Courtroom: The role of the expert witness”, UW School of Public Health and Community Medicine and School of Law, December 9, 1993.
- Instructor**, Summer Institute in Toxicology, Northwest Center for Public Health Practice, Seattle, WA July 12-13, 1993
- Invited Speaker**, “Fundamentals of Toxicology”, Part 1 & Part 2, 1992 Northwest Federal Safety and Health Conference, Olympia, WA, April 29, 1992
- Invited Speaker**, “Basic Principles of Risk Assessment”, American Public Works Association, Washington State Chapter, Spring Conference, March 26, 1992
- Invited Speaker**, “Toxic Chemicals, Human Health and the Environment”, Science Enhancement for Teachers Program, University of Washington, April 27, 1991

- Invited Speaker**, “Are rodents good models for human responses to cancer-causing chemicals? Aflatoxin as an example. WEST ‘91 Conference, Seattle, Convention Center, April 11, 1991
- Invited Speaker**, “America’s Epidemic of Chemicals and Cancer - Myth or Fact?” Inland Empire Agricultural Chemical Association 18th annual convention, Spokane, WA Dec. 11, 1990
- Invited Panel Participant**, Land Based Marine Pollution in the Pacific Northwest, sponsored by the Ocean Studies Council, University of British Columbia, Vancouver, BC, Nov. 2, 1991
- Program Organizer and Speaker**, “Human Health Risk Assessment: Process and Limitations,” principal lecture for a symposium on uncertainties in risk assessment and risk management, given to upper level managers in the Washington Department of Ecology, March 13, 1990
- Invited Speaker**, “Risk Assessment in Foods”, and Panel participant, “Chemical Residues in Foods”, presented at Food Safety in Northwest Supermarkets, sponsored by Washington State University Cooperative Extension, Culinary Botany Northwest, and Department of Environmental Health, UW. October 12, 1989
- Invited Guest**, “Pesticides in Our Food”, The Jim Altoff Show, KING 1090 Radio, October 9, 1989 (1 hour)
- Invited Speaker**, “Pesticide residues in our food and water- a hazard to your health, or a negligible risk?” Saturday Seminar Series, sponsored by the Office of University Relations and UW Extension, Sept. 30, 1989
- Seminar Speaker**, “Biochemical basis for Species Differences in Aflatoxin carcinogenesis”, Washington State University Pharmacology/Toxicology Program Seminar, July 25, 1989
- Invited Participant**, “Town Meeting”, local television talk show focusing on health controversies over pesticide residues in food, KOMO TV, Seattle, WA, April 13, 1989.
- Invited Speaker**, “Strengths and Weaknesses of Toxicological Evidence”, presented at Continuing Education Program on “Legal Aspects of Occupational Health”, University of Washington Education Resource Center, February 8, 1989, Seattle, WA.
- Co-organizer and Speaker**, “Pesticides in the Urban Environment: Health and Environmental Responsibility”, program for 1988 annual convention of the International Pesticide Applicators Association, held in Bellevue, WA on Sept. 28-30, 1988
- Invited Speaker**, City Club (a downtown business leaders civic group). Discussion of the procedures and difficulties encountered in utilizing science in decision making regarding public health risks. Seattle, WA, February 23, 1988
- Invited Speaker**, “Utilization of Scientific Information in Risk Management Decisions”, presented to Division Managers and Budget Coordinators for METRO, Battelle Conference Center, Seattle, WA, October 14, 1987
- Invited Speaker**, “Problems in Risk assessment and Risk Communication”, King County Health Department annual retreat, Seattle Center, Seattle, WA, March 18, 1987
- Invited Speaker**, “Taking Care of Yourself - Pesticide Use and Human Health”, presented at 77th Annual Meeting of the Western Washington Horticultural Association, Olympia, WA, January 6, 1987
- Invited Speaker**, “Toxic Chemicals and Public Health: Putting the Risks in Perspective”, presented to the Seattle Chapter of the American Society of Safety Engineers, October 27, 1986
- Invited Speaker**, “Principles of Toxicology”, given at “Toxic Substances and Public Health Workshop”, sponsored by the Indian Health Service, Seattle, WA, October 22, 1986
- Invited Speaker**, “Pesticides and Public Health: Risks and Uncertainties”, presented at the International Pesticide Applicators Association Convention, Spokane, WA, October 2, 1986

- Invited Speaker**, “Basic Principles of Toxicology”, Risk Assessment Workshop for State Legislators Olympia, WA. Sponsored by Washington Department of Social and Health Services, September 25, 1986
- Invited Speaker**, “Basic Principles of Toxicology and Risk Assessment”, presented to Community Health nurses and doctors for the Seattle-King County Health Department, Seattle, WA, June 10, 1986
- Invited Speaker**, “Potential health effects of occupational Exposure to PCB's”, presented to Snohomish County PUD utility workers, March 17, 1986
- Invited Speaker**, “Health Implications of Gaseous Emissions Associated with Midway Landfill”, February 6, 1986, Kent, WA; sponsored by Washington State Department of Ecology
- Course Co-Organizer and Instructor**, “Basic Principles of Toxicology for Environmental/ Health Practitioners”; two day course given in Tacoma, WA (July 16 & 17, 1985), and Spokane, WA (August 29 & 30, 1985)
- Speaker**, “Toxicology of PBC's, dioxins and dibenzofurans”, given at a public meeting in Kitsap County at the request of Seattle City Light Environmental Affairs Division, Seattle, WA, June 17, 1985
- Invited Speaker**, “An evaluation of the health concerns over dioxins found in Eagle Harbor, WA”, given at a community meeting at the request of Dr. Willa Fisher, Director of the Kitsap County Health Department, July 11, 1985
- Invited Speaker**, “Health Impacts of Environmental Pollutants”, given for the Continuing Medical Education Series, Riverton Hospital, July 19, 1985
- Invited Speaker**, “Health Effects of PCB's”, given to Seattle City Light employees on November 1, 1984, January 9, November 19, November 21, December 4, and December 11, 1985
- Course Organizer and Speaker**, “Toxic Chemicals: Communicating Risks to the Public”, forum for Scientist-media exchange, sponsored by the Society of Toxicology and the Department of Environmental Health, Battelle-Seattle Conference Center, Seattle, WA, April 27, 1985
- Invited Speaker**, Public Perception of Health Impacts of Chronic Pesticide Exposure; International Pesticide Applicators Association Convention, Fife, WA, September 27, 1984
- Course Organizer and Instructor**, Toxicology Review Course for EPA Personnel; Seattle, WA, September 5, 1984-January 15, 1985 (attended by 45 EPA staff)
- Invited Speaker**, “Pesticides use for Gypsy Moth control”, presented at Controversies in Poisoning Management and Occupational/Environmental Exposures, Children's Hospital and Medical Center, Seattle, WA, April 28-29, 1983
- Lecturer**, “Recent Developments in Biological Monitoring”; Continuing Medical Education Course, Seattle, WA, March 18-19, 1983
- Lecturer**, Toxicology; short course presented to Hazards Assessment Program employees of NOAA, 3 lectures; NOAA Sand Point Facilities, Seattle, WA, March 10, 1983
- Speaker**, Health implications of Gypsy Moth control programs; Public Information Seminar, sponsored by Department of Environmental Health and Institute for Environmental Studies, University of Washington, March 10, 1983
- Invited Speaker**, “Health effects of chronic pesticide exposure: a training program of health personnel: prevention, recognition and treatment of pesticide-related illness”; sponsored by Yakima Valley Farm Workers Clinic and the Migrant Health Clinics in Washington, Oregon and Idaho, Pasco, WA, January 21-22, 1983
- Invited Speaker**, “Clinical toxicology of pesticides”; Northwest Poison Control Center Conference, Spokane, WA, April 22-23, 1982

Invited Speaker, “A survey of toxic torts”; Washington State Trial Lawyers Association Annual Meeting, Vancouver, BC, Canada, July 10, 1981

Invited Speaker, “Carcinogens in the environment”; Washington State Office of Environmental Education in Health Education, Everett, WA, March 10, 1981

Invited Speaker, “Phenoxy acid herbicides--fact and fiction”; Huxley College of Environmental Studies, Western Washington University. Bellingham, WA, January 27, 1981

Invited Speaker, “Central nervous system effects of industrial chemicals and physical agents”; 1980 Occupational Health and Medical Conference, Spokane, WA, October 22-24, 1980

Invited Speaker, “PCB's and human health”. Washington State Office of Environmental Education and Health Education. Seattle, WA, February 27, 1980.

15. TEACHING HISTORY

A. Current Teaching (2011-2018):

I continue to co-teach, with Dr. Thummel (Chair, Dept. Pharmaceutics) PHG/ ENVH/PCEUT 513, Fundamentals of Pharmacogenetics and Toxicogenomics. Enrollment is typically 20-25 graduate students. I have 50% responsibility for this course.

I provide 5 lectures each year to the three quarter graduate Toxicology series, ENV514 (1), ENVH 515 (3) and ENVH 516 (1).

B. Previous Teaching:

In 2012 I adapted a previous ENVH 590A graduate toxicology course to a new format. This was a 4 credit course, with enrollment of 15-20 non-toxicology graduate students. The course utilized the lecture content of ENVH 405, of which I give 50% of the lectures, plus included a 1 hr per week discussion group with the graduate students. I was responsible for assigning the readings for each weekly session, and helping the students who lead the discussion. I pass this course on to others when I became Dean of the Graduate School.

From 1979 - ~1985, I developed and taught a 1 quarter in depth Toxicology course, ENVH 515, with enrollment of ~10- 15 students. I also co-taught ENV5 101, Introduction to Environmental Studies (5 credits 200-300 students) at least once a year from 1979-1983.

From ~1986-1995 I had primary responsibility for teaching one of the three quarter toxicology courses.

From ~ 1990 – 2000 (when I devoted 40% effort as Associate Dean for Research in the School of Public Health, and then the 40% Position as Associate Vice Provost for Research), I had 100% responsibility for ENVH 405, with typically 30-50 students enrolled. I also had either 50% or 100% responsibility for ENVH 567 – Environmental Carcinogenesis (3 credits, typical enrollment of 6-12 students).

I Taught one Lecture to Public Health Genetics 200 in fall and spring quarters, and undergraduate course with about 80 students for 5 years. The course was led by Dr. Patricia Kuzsler in the Law School.

In 2010 I developed, with Dan Luchtel, a graduate level course in toxicology for non-toxicology EHS doctoral students in occupational medicine and exposure sciences (and other programs). I was 50% responsible for this in 2010 and 2011. The course was restricted in 2012, as discussed above, and I still maintain 50% responsibility for it.

C. Graduate Student Mentoring:

MS/MSPH Students (Preceptor)

Brian Toal	Joel Rank	Misha Trusty
Leslie Carpenter	Denise Hamel	Julie Hill
Margaret Stinson	Karyn Micheleson	Jason VanLoo
Heidi Hagelstein	Ingrid Borroz	Marc Stifleman
Julia Richards	Dana Stahl	Kate Bradley

PhD. Students Mentored

Trainee Name	Training Period	Degree, Date, Institution	Project Title	Current Position
Carolyn Holeski	83-86	BS, UC-Davis, Toxicology; PhD, UW Pathology, 1986	Effects of enzyme inducers on the hepatobiliary disposition of Aflatoxin B1 in the rat	MD in private practice
David H. Monroe	84-87	UW, Ph.D., 12/87	Species and Diet Related Resistance to Chemical Carcinogens: Aflatoxin B1	Staff Scientist, USEPA, Region VI, Kansas City, MO
Van Ness, Kirk	92-95	MS, 1986, University of Washington	Identification of amino acids in glutathione S-transferase mYc respon-sible for high activity toward aflatoxin oxide	Research Scientist, Zymogenetics, Seattle, WA (recently laid off)
Wang, Charles (Changhong)	94-99	MSPH, 1988; MD, Tongji Medical School	Complementary DNA cloning and sequence of alpha class GSTs in monkey liver	Associate Professor Dept. Medicine/CSMC, UCLA David Geffen School of Medicine, Los Angeles, CA
*McHugh, Tom	94-98	MS, , 1993, Stanford University	Molecular characterization of glutathione transferase with high activity toward aflatoxin 8,9epoxide	Toxicologist, Groundwater Services International, Houston, TX
*Smith, Helen	98-2004	BS, U. Texas-Austin, Pharmacy, 1989; MS, Community Health, UT-Houston, 1994; Ph.D. UW, 2004	Polymorphisms in estradiol metabolism in human endometrium	Associate Professor, School of Pharmacy, University of the Incarnate Word, San Antonio, TX
Abel, Erica	99-2004	BS, Texas A & M, 1997; Ph.D. UW, 2004	Structure-function studies on glutathione S-transferases	Research Assistant Professor, UT-MD Anderson Cancer Center, Carcinogenesis Program, Smithville, TX
Guo, Yingying	99-2004	MD, Sun Yat-sen University, Gungzhou Province, China, 1994; MS, Univ. Cincinnati, 1998; Ph.D. UW, 2004	Effects of aflatoxin epoxide mediated DNA damage on global gene expression in yeast and HepG2 cells and human hepatocytes.	Research Scientist, Eli Lilly & Co, Indianapolis, IN

Poulton, Emma-Jane	2004-2010	B.S., Chemistry, 2004, MIT	The phytochemical, sulforaphane is a sensitive and specific inhibitor of the human steroid X-receptor (SXR)	Research Scientist, Sanofi-Aventis Corp. Bridgewater, NJ
Peck, Erin	2004-2010	B.S., Chemistry 2002, Univ. North Carolina, Chapel Hill	Role of human CYP1A2 in the activation and detoxification of aristolochic acid	Resident, Dept. Family Medicine and Community Health, University of Wisconsin School of Medicine
Vandivort, Tyler (co-mentor with Bill Parks, Pulmonary Medicine)	2011-15		The Function and Regulation of Macrophage Matrix Metalloproteinase 10 (MMP10) in Lung Injury and Fibrosis	Research Scientist, Charles River, Inc. Las Vegas, NV
Cook, Travis (co-mentor with Jing Zhang, Pathology)	2011-2014		Mechanisms of Mn-induced Parkinson's disease	Toxicologist, Gradient Corp. Seattle, WA
Shi-Yu (Shirley) Chang	2012-2016		Development of a microphysiological system using human liver cells	Post-doctoral fellow, School of Pharmacy, Univ. WA, Seattle, WA

Post-doctoral Fellows Mentored:

Trainee Name	Training Period	Previous Degree, Date, Institution	Project Title	Current Position
*Ramsdell, Howard	87-89	Ph.D., 1989, Oregon State University	Biochemical basis for species differences in aflatoxin biotransformation	Assoc. Professor, Dept. Environ. Hlth, Colo. State Univ., Fort Collins, CO
Buetler, Timo	90-94	Ph.D., 1989, University of Basel, Switzerland	Molecular cloning and biochemical characterization of alpha class glutathione transferase in mouse liver	Senior Scientist, Nestle, Inc., Basal, Switzerland
Chen, Zhi-Ying	90-95	1970, M.D., Sun Yat Sen University	Effects of enzyme inducers on liver preneoplastic lesions	Research Scientist, UCLA School of Medicine
*Gallagher, Evan	91-94	Ph.D., 1991, Duke	Kinetics of CYP1A2 and 3A4-mediated aflatoxin activation and detoxification	Professor, Environ. Occup. Health Sciences, UW, Seattle, WA
Bammler, Theo	95-2000	Ph.D., University of Dundee, Scotland	Effects of Oltipraz and ethoxyquin on disposition of aflatoxin B1 in the marmoset monkey	Res. Scientist, Manager of Microarray Facility, Center for Ecogenetics, UW, Seattle, WA
Kelly, Edward	96-2001	Ph.D., 1996, Univ. Washington	Role of human epoxide hydrolase in the detoxification of aflatoxin B1	Research Scientist, Dept. Pharmaceuticals, UW, Seattle, WA
Gross-Steinmeyer	2002 - 06	PhD,	Phytochemical perturbations of aflatoxin biotransformation	Currently 'at home' mother
Smith, Wesley	2008-2012	PhD, Univ. Montana	Toxicology of QDot nanomaterials	Risk Assessor, California State Office of Environmental Health Hazards Assessment

I currently serve as a member of the Doctoral Committees of Megan Cartwright and David Scoville, both in the Toxicology PhD program in DEOHS.

I have also serve on many Doctoral Dissertation and Reading committees for PhD students in Environmental Health, Epidemiology, Pharmaceutics, Medicinal Chemistry, and Pharmacology.