



Key Expertise

- Toxicology
- Personal Injury
- Health Impacts
- Chemicals & Drugs
- Interpretation of Drug Tests
- Exposure Scenarios
- Routes of Exposure
- Air & Water Quality Issues
- Health Risk Communication

Education

Postdoctoral Research Associate,
Toxicology, University of Tennessee, 1975-
1977

PhD, Department of Physiology and
Pharmacology, College of Veterinary
Medicine, University of Illinois, 1975

MS, Department of Physiology and
Pharmacology, College of Veterinary
Medicine, University of Illinois, 1971

BS, Department of Physiology and
Biophysics, College of Liberal Arts and
Sciences, University of Illinois, 1969

Project Geographical Experience

U.S., Canada, South Korea, U.K.

Languages

English

Summary of Experience

Bruce Kelman has more than 40 years of experience in toxicology and has served as a consultant and expert in numerous investigations across North America, South Korea, and the United Kingdom. He has evaluated numerous claims of personal injury and health impacts from chemicals and drugs and has presented a variety of health risk concepts to policy makers, government regulators, citizen groups, and individuals. Dr. Kelman also regularly interprets standard and non-standard tests for drugs of abuse including ethanol, opioids, methamphetamine, cocaine, and cannabis.

Bruce holds a PhD from the University of Illinois and has been certified in toxicology by the American Board of Toxicology since 1980. He is also certified in toxicology by the Academy of Toxicological Sciences. Bruce is a Registered Toxicologist with both the United Kingdom and EUROTOX registries. His research includes more than 130 scientific publications.

Selected Speaking Engagements

Recipient and Plenary Lecture, Pacific Northwest Association of Toxicologists Achievement Award, October 29, 2021

Invited speaker, Northwest Association of Occupational and Environmental Medicine, September 7, 2019

Additional publications and presentations are detailed at the end of this CV.

Professional Affiliations and Memberships

Dr. Kelman is a member of the Society of Toxicology, British Toxicology Society, United Kingdom Register of Toxicology, American College of Toxicology, American College of Medical Toxicology, American College of Occupational and Environmental Medicine, Academy of Toxicological Sciences, American Physiological Society, Society for Experimental Biology and Medicine and the Society for Birth Defects Research and Prevention.

Role at J.S. Held

Dr. Kelman serves as a consultant and expert in claims of personal injury and health impacts from chemicals, drugs, and chemical and physical environmental agents. He also assists companies with worker and product safety. He is experienced with both chemical and physical agents, and varied exposure scenarios and routes of exposure. Dr. Kelman also assists policy makers, regulators, citizen groups, and individuals.

Contact

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+1 425-736-5896 (M) | bkelman@jsheld.com

Professional Certifications

Diplomate of the American Board of Toxicology, 1980-present.

- Renewal certification, 1985-1990
- Renewal certification, 1991-1995
- Renewal certification, 1996-2000
- Renewal certification, 2001-2005
- Renewal certification, 2006-2010
- Renewal certification, 2011-2015
- Renewal certification, 2016-2020
- Renewal certification, 2021-2025

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Registered Toxicologist (United Kingdom and EUROTOX registries), 2005-present.

- Renewal registration, 2010-2015
- Renewal registration, 2015-2020
- Renewal registration, 2021-2025

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Fellow, Academy of Toxicological Sciences, 2006-present.

- Renewal certification, 2011-2016
- Renewal certification, 2016-2021
- Renewal certification, 2021-2026

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Work Experience

J.S. Held LLC, Redmond, WA

Senior Vice President – Senior Technical Fellow - Toxicology
2019 – Present

Veritox®, Inc. (formerly GlobalTox, Inc.), Redmond, WA
Principal and President
1998 – 2019

Golder Associates Inc., Redmond, WA
National Director, Health and Environmental Sciences
1994 – 1998

Golder Associates Inc., Redmond, WA
Manager, Toxicology and Risk Assessment Services
1993 – 1994

Failure Analysis Associates, Inc., Menlo Park, CA
Manager, Toxicology and Managing Scientist
1993 – 1993

Battelle, Pacific Northwest Laboratories, Richland, WA
Manager, New Projects Development, Life Sciences Center
1989 – 1990

Battelle, Pacific Northwest Laboratories, Richland, WA
Department Manager, Biology and Chemistry Department
1985 – 1989

Battelle International Toxicology Office
Co-Manager
1986 – 1989

Battelle, Pacific Northwest Laboratories, Richland, WA
Associate Department Manager, Biology and Chemistry Department
1984 – 1985

Battelle, Pacific Northwest Laboratories, Richland, WA
Section Manager, Developmental Toxicology Section, Biology Department
1981 – 1983

Battelle, Pacific Northwest Laboratories, Richland, WA
Associate Section Manager, Developmental Toxicology Section, Biology Department
1980 – 1981

Battelle, Pacific Northwest Laboratories, Richland, WA
Senior Research Scientist, Developmental Toxicology Section, Biology Department
1979 – 1980

Comparative Animal Research Laboratory, Oak Ridge, TN
University of Tennessee Assistant Professor and Group Leader, Prenatal Toxicology Group
1977 – 1979

Teaching Appointments

New Mexico State University, Las Cruces, NM
Adjunct Professor
1983 – 2004

Joint Center for Graduate Studies, Richland, WA
Lecturer
1979 – 1980

Oak Ridge Associated Universities, Oak Ridge, TN
Lecturer
1975 – 1979

Review and Advisory Functions

External Advisory Board of the School of Public Health and Community Medicine, University of Washington (2005-2010)

Reviewer, FY06 NIOSH National Occupation Research Agenda Program Project Review (2005)

Chairman, United States Environmental Protection Agency Arsenic Health Effects Research Peer-Review Panel, (1997)

National Research Council/National Academy of Science, Committee on Possible Effects of Electromagnetic Fields on Biologic Systems (1993-1996)

Scientific Advisory Committee, Vth COMTOX Symposium on Toxicology and Clinical Chemistry of Metals (1992-1995)

National Institutes of Health, Special Study Section on Possible Role of Metallothionein in Carcinogenesis (1993)

Risk Series Advisory Board, Waste-Management Education and Research Consortium Teleconference Series (1992)

Governor's Biotechnology Targeted Sector Advisory Committee, State of Washington (1989-1990)

Board of Directors, Washington State Biotechnology Association (1989-1990)

Advisory Council, Seattle Fire Department and the Washington State Fire Protection Services (1988-1990)
Industrial Advisory Board, Instructional Program in Toxicology, New Mexico State University (1982-1994)
Science Review Panel for Health Research, U.S. Environmental Protection Agency (1981-1989)
Reviewer, Air Force Office of Scientific Research (1985-1987)
Site review team at Harbor General Hospital for NICHHD (1978)

Editorial Appointments

Review Editor, Nanotoxicology (specialty section of Frontiers in Toxicology) (2019-present)
Program Leader, Environmental Risk Management Series, Waste-management Education and Research Consortium
Teleconference Series (1992-1993)
Editorial Board, Biological Effects of Heavy Metals, CRC Press (1987-1993)
Co-Editor, Interactions of Biological Systems with Static and ELF Electric and Magnetic Fields, NTIS (1987)
Editorial Board, Trophoblast Research, Plenum Publishing Corporation (1983-1993)

Professional Memberships and Associated Appointments

American Board of Toxicology (1980-present)
– Board of Directors, 2011-2015
Academy of Toxicological Sciences (2006-present)
– Board of Directors, 2021-2024
– Communications Committee (2020-present)
Society of Toxicology (1978-present)
– Committees:
Ethics Committee, Member, 1991-1993
Long Range Planning Committee, Member, 1986-1987
Nominations Committee, Member, 1983
Program Committee, 2004-2007
Tox 90s Educational Issues Task Force, Member, 1993-1994
Toxicology Initiative Task Force, Member, 1993-1996, Chairman, 1995-1996
– Regional Chapters:
Northern California Chapter, Member, 1990-1993
Northwest Chapter Charter Member, 1984-1990, 1994-present
Councilor, 1985-1987
Vice President-Elect, 2005-2006
Vice President, 2006-2007
President, 2007-2008
Past President, 2008-2009
– Specialty Sections:
Inhalation Specialty Section, Member, 1986-present
Metals Specialty Section
Organizing Committee Vice President, 1980-1981
Charter Member, 1981-present
Secretary/Treasurer, 1981-1983
President-Elect, 1985-1986
President, 1986-1987
Councilor, 1987-1988
Molecular and Systems Biology Specialty Section

Organizing Committee President, 1988
Charter Member, 1989-present
Founding President, 1989
Councilor, 1989-1990
Nanotoxicology Specialty Section, Member, 2008-present
Occupational Health Specialty Section, Charter Member, 1998-present
Reproductive and Developmental Specialty Section, Charter Member, 1983-present
Comparative and Veterinary Specialty Section, Charter Member 1994-present
Ethical, Legal, and Social Specialty Section
Organizing Committee Councilor, 2003-2004
Charter Member, 2005-2012
Councilor, 2005-2007
Risk Assessment Specialty Section, Member, 1991-1998

British Toxicology Society (2006-present)

United Kingdom Register of Toxicology (2005-present)

EUROTOX Registered Toxicologist (2005-present)

American College of Medical Toxicology (2018-present)

American College of Occupational and Environmental Medicine (1998-present)

American Society for Pharmacology and Experimental Therapeutics (1981-present)

- Drug Metabolism Division Member, 1981-1989
- Toxicology Section Member, 1989-1992
- Toxicology Division
Charter Member, 1992-present
Executive Committee, 1992

American College of Toxicology, Member (1993-present)

American Academy of Veterinary and Comparative Toxicology, Fellow (1985-present)

American Physiological Society (1975-present)

Society for Experimental Biology and Medicine, Member (1978-present)

Society for Birth Defects Research and Prevention (formerly Teratology Society), Member (1978-present)

- Constitution and Bylaws Committee Member, 1992-1994
- Committee on Expert Testimony, 1998-1999

Radiation Research Society, Member (1981-2013)

Selected Speaking Engagements, Awards, and Honors

Recipient and Plenary Lecture, Pacific Northwest Association of Toxicologists Toxicology Achievement Award, 2021

Invited speaker, Northwest Association of Occupational and Environmental Medicine, September 7, 2019

Invited speaker, Northwest Association of Occupational and Environmental Medicine, September 8, 2018

Instructor, Advanced Comprehensive Toxicology, American College of Toxicology, August 10, 2018

Keynote commencement address, Department of Environmental and Occupational Health Sciences, School of Public Health, University of Washington, June 8, 2018

Invited speaker, Northwest Association of Occupational and Environmental Medicine, September 26, 2015

Primary organizer, Burnham Brown Safety Webinar, November 2014

Invited speaker, American Conference Institute, Chemical Products Liability and Environmental Litigation, April 28, 2011

Invited speaker, 21st Century Toxicity Testing and Human Health Risk Assessment for Environmental Agents, October 7, 2010

Invited speaker, 5th Annual Risk Management Conference Retail · Restaurant · Hospitality, April 1, 2010
Best paper, Nanotoxicology Specialty Section, Society of Toxicology, March 7-11, 2010
Invited speaker, American Industrial Hygiene Conference & Exposition, June 3, 2009
Invited speaker, University of Virginia, May 20, 2009
Highlighted Article, Toxicol Sci, April 2009
Invited speaker, 4th Annual Risk Management Conference, Retail · Restaurant · Hospitality, April 9, 2009
Invited speaker, 3rd Annual Risk Management Conference, Retail · Restaurant · Hospitality, April 17, 2008
Invited speaker, Annual Meeting of the Pacific Northwest Association of Toxicologists, September 18-19, 2008
Invited speaker, American Industrial Hygiene Conference & Exposition, June 2-7, 2007
Invited lecturer, Good Samaritan Hospital Grand Rounds, Phoenix, AZ, March 15, 2007
Invited speaker, Korea Environment and Merchandise Testing Institute, October 20, 2006
Invited speaker, Korea Food and Drug Administration, October 18, 2006
Invited speaker, Annual Meeting of the Risk and Insurance Management Society, April 23-27, 2006
Invited speaker, Annual Meeting of the Pacific Northwest Association of Toxicologists, September 8-9, 2005
Featured speaker, Annual Meeting of the St. Louis Chapter of the American Industrial Hygiene Association, March 11, 2005
Invited speaker, International Conference on Heavy Metal Toxicology, Taipei, Taiwan, October 15-16, 2004
Co-chair and speaker, roundtable, "Does funding influence research integrity?" 43rd Annual Meeting of the Society of Toxicology, 2004
Invited speaker, Puget Sound Occupational and Environmental Medicine Grand Rounds, University of Washington, October 9, 2003
Invited speaker, 1st International Symposium on National Toxicology Programs, Seoul, Korea, November 25, 2002
Invited speaker, Korean Occupational Health and Safety Administration, Seoul, Korea, November 26, 2002
Chairman, Safety Evaluation, 41st Annual Meeting of the Society of Toxicology, 2002
Chairman, Safety Evaluation, 40th Annual Meeting of the Society of Toxicology, 2001
Best IEQ-related paper published in 2000 in U.S. industrial hygiene journals. American Industrial Hygiene Association, 2001
Chairman, Risk Assessment, 38th Annual Meeting of the Society of Toxicology, 1999
Chairman, Risk Assessment, 37th Annual Meeting of the Society of Toxicology, 1998
Invited speaker, Congressional Commission on Risk Assessment and Risk Management, July 6, 1995
Invited speaker, Risk Assessment of Electromagnetic Fields, Electric Power Research Institute Annual Meeting, March 16, 1994
Chairman, Educator's Forum, 33rd Annual Meeting of the Society of Toxicology, 1994
Lead Presenter and Technical Producer, Environmental Risk Management Videoconference Series: Identifying the Gap Between Technical Issues and Social Concerns, April 14, 1993
Invited speaker, Health Risk Assessment for Environmental Chemicals, Annual Meeting of the American Chemical Society, March 1993
Invited lecturer, 3rd International Conference on Electrical and Electronic Materials, June 9, 1992
Invited lecturer, 8th International Congress on Thermal Insulation, March 9, 1992
Chairman, Risk Assessment II Session: 31st Annual Meeting of the Society of Toxicology, 1992
Invited panelist and lecturer, "Ask the Experts," Hazardous Waste Management Workshop, January 29, 1992
Invited panelist and lecturer, Risk Associated with Hazardous and Radioactive Wastes, Hazardous/Radioactive Waste Management Videoconference Training Series, WERC, April 24, 1991
Chairman, Cholinesterase Inhibitor Session: 30th Annual Meeting of the Society of Toxicology, 1991

Organizing Chairman, Molecular Biology Techniques Workshop, Annual Meeting of the Health Effects Institute, 1990
Chairman, Respiratory Physiology Session: 29th Annual Meeting of the Society of Toxicology, 1990
Chairman, Molecular/Cellular Session: 28th Annual Meeting of the Society of Toxicology, 1989
Co-Chairman, Toxicology/Metals Sessions: "11th Rochester Trophoblast Conference and the European Placenta Group," 1988
Co-Chairman, symposium: "Acute Radiation-Induced Injury," 26th Annual Meeting of the Society of Toxicology, 1987
Chairman, symposium: "Current Understanding of Metal-Membrane Interactions," 25th Annual Meeting of the Society of Toxicology, 1986
Co-Chairman, workshop: "Animal Placental Perfusions," 10th Trophoblast Conference, 1985
Co-Chairman, symposium: "Interactions of Biological Systems with Static and ELF Electric and Magnetic Fields," 23rd Annual Hanford Life Sciences Symposium, 1984
Chairman, Metals Session: 23rd Annual Meeting of the Society of Toxicology, 1984
Chairman and invited participant: Metabolism Session, "Developmental and Reproductive Toxicity of Metals," 15th Annual Rochester International Conference on Environmental Toxicity, 1982
Award of Merit, Northwest Chapter of the Society for Experimental Biology and Medicine, 1980
Invited participant, symposium: "Transport Processes as Sites of Action for Chemicals," Joint Fall Meeting of ASPET and SOT, 1978

Selected Continuing Education

Put Your Science Where Your Mouth is: Practice Makes Progress in Effective Science Communication, March 19, 2023, Society of Toxicology Continuing Education Course (4 instructional hours)
Nontraditional In Vivo Animal Models in Developmental, Reproductive, and Juvenile Toxicology, March 19, 2023, Society of Toxicology Continuing Education Course (4 instructional hours)
Evidence Map, Scoping Review, Rapid Systematic Review, and Systematic Review – And How to Conduct Them, March 27, 2022, Society of Toxicology Continuing Education Course (4 instructional hours)
Next-Level Neurotoxicology: New Technologies to Advance Visualization of Spatial Molecular Alterations and Behavioral Phenotyping, March 27, 2022, Society of Toxicology Continuing Education Course (4 instructional hours)
Applications of In Vitro and In Silico New Approach Methodologies for Predictive and Mechanistic Thyroid Toxicity Testing, March, 2021, Society of Toxicology Continuing Education Course (3.25 instructional hours)
Timing Is Everything: Role of Aging in Immune Responses and Toxicological Implications, March, 2021, Society of Toxicology Continuing Education Course (3.25 instructional hours)
COVID-19 Seminars, April – November 2020, American College of Medical Toxicology, Continuing Education (8 instructional hours)
COVID-19 Seminars, March – November 2020, American College of Occupational and Environmental Medicine, Continuing Education (30 instructional hours)
Timing Is Everything: Developmental Exposure Alters the Path of Immune Cell Maturation and Function, May 29, 2020, Society of Toxicology Continuing Education Course (4 instructional hours)
The Male Reproductive Tract: Development, Toxicology, and Pathology, May 1, 2020, Society of Toxicology Continuing Education Course (4 instructional hours)
Marijuana and the Workplace: The Ongoing Saga American College of Occupational and Environmental Medicine, January 27-28, 2020, Continuing Education (8 instructional hours)
ACMT Grand Rounds: Algal Toxins, American College of Medical Toxicology, December 16, 2019 (1 instructional hour)
ACMT Seminars in Forensic Toxicology; Criminal Poisoning and Drug Facilitated Sexual Assault, December 9-10, 2019, American College of Medical Toxicology Continuing Education Course (16 instructional hours)
Complex Mixtures and UVCBs: Analysis, Testing, and Risk Assessment, March 10, 2019, Society of Toxicology Continuing Education Course (4 instructional hours)

Conducting Systematic Review in Toxicology, March 10, 2019, Society of Toxicology Continuing Education Course (4 instructional hours)

Evaluations of Leachable Substances from Materials with Applications in Foods and Pharmaceuticals, March 11, 2018, Society of Toxicology Continuing Education Course (4 instructional hours)

Biotherapeutic Development, March 10, 2018, Society of Toxicology Continuing Education Course (4 instructional hours)

ACMT Seminars in Forensic Toxicology: Opioids, Toxicology, and the Law. Medical-Legal Aspects of the Opioid Epidemic, December 11-12, 2017, American College of Medical Toxicology Continuing Education Course (16 instructional hours)

New Concepts and Technologies in Metals Toxicology, March 13, 2017, Society of Toxicology Continuing Education Course (4 instructional hours)

Health-Based Limits for Toxicological Risk Assessment: Setting Acceptable Daily Exposures for Pharmaceutical and Chemical Safety, March 12, 2017, Society of Toxicology Continuing Education Course (4 instructional hours)

Genetics and Population Variability in Chemical Toxicology, March 13, 2016, Society of Toxicology Continuing Education Course (4 instructional hours)

Next Generation Sequencing in Toxicogenomics, March 13, 2016, Society of Toxicology Continuing Education Course (4 instructional hours)

Demystifying Mixtures: From Study Design Selection to Risk Assessment Application, March 22, 2015, Society of Toxicology Continuing Education Course (4 instructional hours)

Skeletal System Endocrinology and Toxicology, March 22, 2015, Society of Toxicology Continuing Education Course (4 instructional hours)

Elucidating Adverse Outcome Pathways (AOPs) for Developmental Toxicity, March 23, 2014, Continuing Education Course (4 instructional hours)

Epidemiology for Toxicologists: What the Numbers Really Mean, March 23, 2014, Continuing Education Course (4 instructional hours)

Selected Publications

(1) = Research Paper; (2) = Review; (3) = Abstract

1. (3) **Kelman, B.J.** and A.R. Twardock. 1975. Calcium, sodium, and potassium movements across the perfused guinea pig placenta. *Fed Proc* 34:558.
2. (3) **Kelman, B.J.** 1976. Movement of methyl mercury across the perfused guinea pig placenta. *Fed Proc* 35:364.
3. (1) **Kelman, B.J.**, G.E. Jarboe, and L.B. Sasser. 1976. Effect of red-cell-bound mercury on measurements of tissue mercury distribution. *Bull Environ Contam Toxicol* 16:612-617.
4. (1) **Kelman, B.J.** 1977. Inorganic mercury movements across the perfused guinea pig placenta in late gestation. *Toxicol Appl Pharmacol* 41:659-665.
5. (3) **Kelman, B.J.** 1977. Movements of inorganic mercury across the perfused guinea pig placenta in late gestation. *Fed Proc* 36:355.
6. (3) **Kelman, B.J.** 1977. Transport of cadmium across the guinea pig placenta in late gestation. In: University of Missouri 11th Annual Conference on Trace Substances in Environmental Health, Columbia, MO.
7. (1) **Kelman, B.J.**, D.M. Bush, L.B. Sasser, and G.E. Jarboe. 1977. Respiration of mercury from rats and release of mercury from stored rat tissues treated with methylmercury chloride. *Health Phys* 33:139-141.
8. (1) **Kelman, B.J.** and L.B. Sasser. 1977. Methylmercury movements across the perfused guinea pig placenta in late gestation. *Toxicol Appl Pharmacol* 39:119-127.
9. (1) **Kelman, B.J.** and B.K. Walter. 1977. Passage of cadmium across the perfused guinea pig placenta. *Proc Soc Exp Biol Med* 156:68-71.
10. (3) Walter, B.K. and B.J. **Kelman**. 1977. Fetal uptake of methylmercury in swine. *Fed Proc* 36:355.

11. (3) **Kelman, B.J.**, J.A. Ozga, B.K. Walter, and L.B. Sasser. 1978. Cadmium-binding protein in the livers of pregnant and fetal rats. *Teratology* 17:23A.
12. (3) **Kelman, B.J.** and A.R. Twardock. 1978. Calcium, sodium, and potassium movements across the placenta in the presence of inhibitors. *Fed Proc* 37:615.
13. (2) **Kelman, B.J.** and B.K. Walter. 1978. Use of perfusion in the study of placental transport of mercury and cadmium, pp. 555-567. In: *Developmental Toxicology of Energy-Related Pollutants*, D.D. Mahlum, M.R. Sikov, P.L. Hackett, and F.D. Andrew (Eds.), 17th Hanford Life Sciences Symposium, October 17-19, 1977, Richland, WA. CONF-771017.
14. (1) **Kelman, B.J.**, B.K. Walter, G.E. Jarboe, and L.B. Sasser. 1978. Effect of dietary cadmium on calcium metabolism in the rat during late gestation. *Proc Soc Exp Biol Med* 158:614-617.
15. (1) Sasser, L.B., G.E. Jarboe, B. Walter, and **B.J. Kelman**. 1978. Absorption of mercury from ligated segments of the rat gastrointestinal tract. *Proc Soc Exp Biol Med* 157:57-60.
16. (3) Walter, B.K. and **B.J. Kelman**. 1978. Calcium-cadmium interactions in the rat during late gestation. *Fed. Proc.* 37:614.
17. (2) **Kelman, B.J.** 1979. Effects of toxic agents on movements of materials across the placenta. *Fed Proc* 38: 2246-2250.
18. (1) **Kelman, B.J.**, J.A. Ozga, B.K. Walter, and L.B. Sasser. 1979. Cadmium-binding in the pregnant and fetal rat. *Toxicol Lett* 4:135-141.
19. (3) **Kelman, B.J.** and B.K. Walter. 1979. Fetal to maternal cadmium movements across the perfused hemochorial placenta of the guinea pig. *Toxicol Appl Pharmacol* 48:A146.
20. (3) Sasser, L.B., P.T. Bronsky, B.K. Walter, and **B.J. Kelman**. 1979. The subcellular distribution and protein-binding of orally administered ¹⁰⁹Cd in the newborn rat intestine. In: *University of Missouri 13th Annual Conference on Trace Substances in Environmental Health*, Columbia, MO.
21. (1) Schneider, M.D., and **B.J. Kelman**. 1979. A proposed mechanism(s) of transitory ischemic injury to myocardium. *Am J Vet Res* 40:170-182.
22. (3) **Kelman, B.J.**, M.R. Sikov, and P.L. Hackett. 1980. Effects of monomeric ²³⁹Pu on the pregnant and fetal rabbit. *Teratology* 21:48A.
23. (1) **Kelman, B.J.**, S.E. Steinmetz, B.K. Walter, and L.B. Sasser. 1980. Absorption of methylmercury by the fetal guinea pig during mid to late gestation. *Teratology* 21:161-165.
24. (3) **Kelman, B.J.**, S.E. Steinmetz, B.K. Walter, and L.B. Sasser. 1980. Distribution of tissue-bound methylmercury in the fetal guinea pig after maternal methylmercury administration, p. 20. In: *Abstracts of Papers, 19th Annual Meeting of the Society of Toxicology*, March 9-13, 1980, Washington, DC.
25. (1) **Kelman, B.J.** and B.K. Walter. 1980. Fetal to maternal cadmium movements across the perfused hemochorial placenta of the guinea pig. *Toxicol Appl Pharmacol* 52:400-406.
26. (1) **Kelman, B.J.** and B.K. Walter. 1980. Transplacental movements of inorganic lead from mother to fetus. *Proc Soc Exp Biol Med* 163:278-282.
27. (3) Sasser, L.B., A.A. Levine, **B.J. Kelman**, and R.K. Miller. 1980. The effect of fetal cadmium injection on metallothionein in fetal and maternal rat liver, p. 23. In: *Abstracts of Papers, 19th Annual Meeting of the Society of Toxicology*, March 9-13, 1980, and Washington, DC.
28. (1) Charles-Shannon, V.L., L.B. Sasser, D.K. Burbank, and **B.J. Kelman**. 1981. The influence of zinc on the ontogeny of hepatic metallothionein in the fetal rat. *Proc Soc Exp Biol Med* 168:56-61.
29. (3) **Kelman, B.J.** 1982. Alterations of the maternal blood supply to the fetus by toxic materials. *The Toxicologist* 2:42.
30. (3) **Kelman, B.J.** and M.R. Sikov. 1981. Effects of intravenous injection of monomeric ²³⁹Pu in pregnant rabbits. *Abstracts of Papers, 29th Annual Meeting of the Radiation Research Society*, May 31 - June 4, 1981, Minneapolis, MN. *Radiat Res* 87:446.
31. (3) **Kelman, B.J.** and M.R. Sikov. 1981. Movements of plutonium across the perfused guinea pig placenta. *Abstracts of Papers, 29th Annual Meeting of the Radiation Research Society*, May 31 - June 4, 1981, Minneapolis, MN. *Radiat Res* 87:386.
32. (3) **Kelman, B.J.** and M.R. Sikov. 1981. Fetal exposure to plutonium. *The Toxicologist* 1:146.

33. (1) **Kelman, B.J.** and M.R. Sikov. 1981. Plutonium movements across the haemochorial placenta of the guinea pig. *Placenta* (Supplement 3):319-326.
34. (3) **Kelman, B.J.** and D.L. Springer. 1981. Fetal exposure to benzo[a]pyrene. *Teratology* 23:45A.
35. (1) **Kelman, B.J.** and D.L. Springer. 1981. Fetal exposure to benzo[a]pyrene across the hemochorial placenta, pp. 387-397. In: *Coal Conversion and the Environment: Chemical, Biomedical and Ecological Considerations*, D.D. Mahlum, R.H. Gray, and W.D. Felix (Eds.), 20th Hanford Life Sciences Symposium, October 19-23, 1980, Richland, WA. CONF-801039.
36. (3) Sasser, L.B., V.L. Charles-Shannon, B.D. Bergquist, and **B.J. Kelman**. 1981. The effect of zinc and cadmium on hepatic metallothionein in the fetal rat. *The Toxicologist* 1:30.
37. (3) **Kelman, B.J.** 1982. Teratological lesions and changes in the maternal blood supply to the fetus: A hypothesis. *Teratology* 25:53A-54A.
38. (3) **Kelman, B.J.**, D.D. Mahlum, and J.R. Decker. 1982. Effects of exposure to magnetic fields on the pregnant rat, p. 52. In: *Abstracts, Fourth Annual Scientific Session of the Bioelectromagnetics Society*, June 28 - July 2, 1982, Los Angeles, CA.
39. (3) **Kelman, B.J.** and M.R. Sikov. 1982. Clearance of a-aminoisobutyric acid during in situ perfusion of the guinea pig placenta, p. 12. In: *Proceedings of the Ninth Rochester Trophoblast Conference*, University of Rochester, Rochester, NY.
40. (3) **Kelman, B.J.** and M.R. Sikov. 1982. Toxicology of plutonium: Fetal distribution following maternal exposure. *Teratology* 26:48A.
41. (1) **Kelman, B.J.**, M.R. Sikov, and P.L. Hackett. 1982. Effects of monomeric ²³⁹Pu on the fetal rabbit. *Health Phys* 43:80-83.
42. (1) **Kelman, B.J.**, M.R. Sikov, and P.L. Hackett. 1982. Effects of monomeric ²³⁹Pu on the pregnant rabbit. *Health Phys* 42:730-731.
43. (3) **Kelman, B.J.**, M.R. Sikov, D.D. Mahlum, P.L. Hackett, D.L. Springer, and F.D. Andrew. 1981. An integrated approach to the evaluation of rat pups from dams exposed to high boiling coal liquids. *Fed Proc* 41:1560.
44. (1) **Kelman, B.J.** and D.L. Springer. 1982. Movements of benzo[a]pyrene across the hemochorial placenta of the guinea pig. *Proc Soc Exp Biol Med* 169:58-62.
45. (1) **Kelman, B.J.**, B.K. Walter, and L.B. Sasser. 1982. Fetal distribution of mercury following introduction of methylmercury into porcine maternal circulation. *J Toxicol Environ Health* 10:191-200.
46. (3) Sikov, M.R., **B.J. Kelman**, and D.D. Mahlum. 1982. Toxicology of plutonium: Intrauterine and postnatal effects of prenatal exposure. *Teratology* 26:50A.
47. (2) Hackett, P.L. and **B.J. Kelman**. 1983. Availability of toxic trace metals to the conceptus. *Sci Total Environ* 28:433-442.
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