David Kalman Bibliography

Research Articles in Refereed Journals

- 1. Hillemann CL, Van Hecke GR, Peak SR, Winther JB, Rudat MA, **Kalman DA**, White ML. Physical studies of homologous trans-4-ethyoxy41-n-Alkanoyl oxyaz-benzenes. Jour Phys Chem 1975; 79:1566.
- 2. **Kalman DA**, Dills R, Perera C, DeWalle F. On-column cryogenic trapping of sorbed organics for determination by capillary gas chromatography. Anal Chem 1980; 52:1993-1994.
- 3. DeWalle FB, **Kalman DA**, Dills R, Norman D, Chian ESK, Giabbai M, Ghosal M. Presence of phenolic compounds in sewage, effluent, and sludge from municipal sewage treatment plants. Water Sci Tech 1982; 14:143-150.
- 4. **Kalman DA**. Optimized injection for determination of free phenols by gas chromatography using fused silica columns. J High Res Chrom 1983; 6:564-565.
- 5. **Kalman DA**, Horstman S. Persistence of chlorinated phenols in exposed woodworkers. Clinical Toxicol 1984; 20:343-358.
- 6. **Kalman DA**. Determination of pentachlorophenol and 2,3,4,6-tetrachlorophenol in human urine by high resolution gas chromatography. J Chrom Sci 1984; 22(10):452-455.
- 7. **Kalman DA**, Schumacher R, Covert D, Eaton DL. Biological availability of lead in a paint aerosol.
- I. Physical and chemical characterization of a lead paint aerosol. Toxicol Lett 1984; 22:301-306.
- 8. Eaton DL, **Kalman D**, Garvey D, Morgan M, Omenn GS. Biological availability of lead in a paint aerosol. II. Absorption, distribution and excretion of intratracheally instilled lead paint particles in the rat. Toxicol Lett 1984; 22:307-313.
- 9. Wallace, DM, **Kalman DA**, Bird, TD. Hazardous lead release from glazed dinnerware: a cautionary note. Sci Tot Env 1985; 44:289-292.
- 10. **Kalman DA**, Voorhees KJ, Osborne D, Einhorn IN. Production of a bicyclophosphate neurotoxic agent during pyrolysis of synthetic lubricant oil. J Fire Sci 1985; 3:322-329.
- 11. **Kalman DA**. Survey Analysis of Volatile Organics Released from Plastics Under Thermal Stress. Am Ind Hyg Assoc J 1986; 47:270-275.
- 12. Pepich BV, Callis J, Burns D, Gouterman M, and Kalman D. Capillary Gas Chromatography /

Pulsed Supersonic Jet Fluorescence Excitation Spectroscopy for the Identification of Methylanthracenes in a Complex Environmental Sample, Analytical Chemistry 1986; 2825-2830.

- 13. Kleinman G, Horstman S, **Kalman DA**, MacKenzie J. and Stansel, D. Industrial hygiene, chemical and biological assessments of exposures to a chlorinated phenolic sapstain control agent. Am Ind Hyg Assoc J 1986; 47, 731-741.
- 14. **Kalman, David A.**, Goodman, Gary E., Omenn, Gilbert S., Bellamy, Garland and Rollins, Brooke. Micronutrient assay for cancer prevention trials: Serum retinol, retinyl palmitate, alpha-carotene and beta-carotene with the use of high performance liquid chromatography. J. National Cancer Institute, 1987; 79, 975-982.
- 15. Boatman, E.S., Covert, D, **Kalman, D**., Luchtel, D., and Omenn, G.S., Physical, morphological and chemical studies of dusts derived from the machining of composite epoxy materials. Environmental Research, 1987.
- 16. Eaton, DL, Monroe, DH, Bellamy, GM and **Kalman, DA**. Identification of a novel dihydroxy metabolite of aflatoxin B1 produced in vitro and in vivo in rats and mice. Res. Chem. Toxicol.,1988; 1, 108.
- 17. **Kalman, David A.**, Quantitation of arsenic species in urine for exposure assessment studies. J. Res. National Bureau Standards, 1988; 93, 315-317.
- 18. Montgomery, D.D. and **Kalman, D. A**. Indoor / outdoor air quality: reference pollutant concentrations in complaint-free residences. Applied Industrial Hygiene, 4,17-20, 1988.
- 19. Horstman, SB, Rossner, A., **Kalman, D.A.**, and Morgan, M., Penetration of Pentachlorophenol and Tetrachlorophenol Through Human Skin, J. Environ. Sci. Health, 1989, A24, 229-242.
- 20. Polissar, L, Coble, KL, **Kalman, DA**, Hughes, JP, van Belle, G, Covert, DS, Burbacher, TM, Bolgiano, D, and Mottet, NK., Pathways of human exposure to arsenic in a community surrounding a copper smelter, Environmental Research, 1990; 53, 29-47.
- 21. **Kalman, David A.**, Hughes, J., van Belle, G., Burbacher, T., Bolgiano, D, Coble, KL, Mottet, NK, and Polissar, L., Distribution of urinary arsenic species for individuals living in an arsenic-contaminated community, Environmental Health Perspectives, 1990; 89, 145-151.
- 22. Atallah, Raja and **Kalman, David A**. On-line photooxidation for the determination of organoarsenic compounds by atomic absorption spectrophotometry with continuous arsine generation. Talanta, 1991; 38, 167-173.

- 23. Russell L. Dills, Stuart D. Kent, Harvey Checkoway and **David A. Kalman,** Quantification of Volatile Solvents in Blood by Static Headspace Analysis. Talanta, 1991; 38, 365-374.
- 24. Russell L. Dills, Ronald L. Wu, Harvey Checkoway and **David A. Kalman**, Capillary Gas Chromatographic Method for Mandelic and Phenylglyoxylic Acid in Urine. Int. Arch. Occup. Environ. Health, 1991; 62, 603-611.
- 25. Daniell, W., **Kalman, D.A.**, Stebbins, A., and Horstman, S.., The contributions of skin and inhalation exposure to solvent uptake measured by urinary metabolites, Am Ind Hyg Assoc J, 1992; 53, 124-129.
- 26. Atallah, R.H., and **Kalman, D.A.**, Selective determination of inorganic and methyl mercury in tissues by continuous flow cold vapor atomic absorption spectrometry, Analytical Toxicology, 17, March/April 1993.
- 27. Morgan MS, Dills RL, **Kalman DA.** Evaluation of stable isotope-labeled probes in the study of solvent pharmacokinetics in human subjects. Int. Arch. Occup. Environ. Health. 65:S139- S142, 1993.
- 28. Russell L. Dills, Walter S. Ackerlund, **David A. Kalman** and Michael S. Morgan, Blood/air partition coefficient determinations: automation and improvement of the Equilibrium Partitioning in Closed Systems Method. Journal of Exposure Analysis and Environmental Epidemiology, 3, 471-489, 1993.
- 29. Russell L. Dills, Walter S. Ackerlund, **David A. Kalman** and Michael S. Morgan, Inter-individual variability in blood/air partitioning of volatile organic compounds and correlation with blood chemistry. Journal of Exposure Analysis and Environmental Epidemiology, 4, 229-245, 1994.
- 30. Dills, R.L., Enderlein, C., Ackerlund, W.S., **Kalman, D.A.**, and Morgan, M.S. Investigation of the relationship between chemical concentration and the blood/air partition coefficient. Int. J. Exp. Anal. Environ. Epi. 4: 343–353, 1994.
- 31. Warner, Marcella L Warner, Lee A. Moore, Martyn T. Smith, **David A. Kalman**, Elinor Fanning, and Allan H. Smith. Increased micronuclei in exfoliated bladder cells of persons who chronically ingest arsenic-contaminated water in Nevada. Cancer Epidemiology, Biomarkers, and Prevention, 3: 583-590, 1995.
- 32. NJ Simcox, RA Fenske, S Woltz, I-C Lee and **D Kalman**. Pesticides in housedust and soil: exposure pathways for children of agricultural families. Environmental Health Perspectives, 103, (12): 1126-1134, 1995.

- 33. Moore, LE, Smith, AH, Hopenhayn-Rich, C, Biggs, ML, Warner, ML, **Kalman, DA** and Smith, MT. Increased micronuclei found in two populations environmentally exposed to arsenic. Clinical Chemistry, 1995; 41: 1915-1917.
- 34. Hopenhayn-Rich, C, Biggs, ML, Smith, AH, **Kalman, DA**, and Moore, LE. Methylation study in a population environmentally exposed to high arsenic drinking water. Environmental Health Perspectives, 104: 620—628 (1996).
- 35. Moore, LE, Warner, M, Smith, AH, **Kalman, D,** and Smith, MT. Use of the fluorescent micronucleus assay to detect the genotoxic effects of radiation and arsenic exposure in exfoliated human epithelial cells. Environmental and Molecular Mutagenesis, 27: 176-184 (1996).
- 36. Pierce, CH, Dills, RD, Morgan, MS, Nothstein, GL, Shen, DD, **Kalman, DA.** Interindividual differences in 2H8-toluene toxicokinetics assessed by a semi-empirical physiologically-based model. Toxicology and Applied Pharmacology, 139: 49-61 (1996).
- 37. CH Pierce, RL Dills, GW Silvey, **DA Kalman.** Human blood- and adipose-air partition coefficients for aromatic solvents. Scandinavian Journal of Work, Environment and Health, 22:112-118 (1996).
- 38. Hopenhayn-Rich, C, Biggs M L., **Kalman D A.**, Moore L E., Smith A H. Arsenic methylation patterns before and after change from high to lower arsenic water supply. Environmental Health Perspectives, 104(11): 1200-1207 (1996).
- 39. Biggs, ML, **Kalman, DA**, Moore, LE, Hopenhayn-Rich, C, Smith, MT, Smith, AH. Relationship of urinary arsenic to intake estimates and a biomarker of effect, bladder cell micronuclei. Mutation Research 386, 185-195 (1997)
- 40. Pierce, CH, Dills, RL, Morgan, MS, Lewandowski, TA, Wessels, MA, Shen, DD, and **Kalman, DA**. Estimation of background exposure to toluene using a physiologically-based model. Journal of Occupational Health, 39: 130-137 (1997).
- 41. Yuknavage, KL, Fenske,R, **Kalman, DA**, Keifer, M, Furlong, C. Simulated dermal contamination with capillary samples and field cholinesterase biomonitoring. J. Toxicology and Environmental Health, 51(1): 35-55 (1997).
- 42. Moore, LE, Smith, AH, Hopenhayn-Rich, C, Biggs, ML, **Kalman, DA**, Smith, MT. Micronuclei in exfoliated bladder cells among individuals chronically exposed to arsenic in drinking water. Cancer Epidemiol, Biomarkers and Prevention, 6(1): 31-36 (1997).
- 43. Biggs, ML, Kalman, DA, Moore, LE, Hopenhayn-Rich, C, Smith, MT and Smith, AH.

Relationship of urinary arsenic to intake estimates and a biomarker of effect, bladder cell micronuclei. Mutation Research, 386: 185-195, (1997).

- 44. Dills, RL, Bellamy, GM, **Kalman, DA**. Quantitation of o-, m-, and p-cresol and deuterated analogs in human urine by gas chromatography with electron capture detection. In press, J. Chromat. B, 703: 105-113 (1997).
- 45. Moore, LE, Smith, AH, Hopenhayn-Rich, C, Biggs, ML, **Kalman, DA** and Smith, MT. Decrease in bladder cell micronucleus prevalence after intervention to lower the concentration of arsenic in drinkingwater. Cancer Epidemiology, Biomarkers and Prevention, 6(12):1051-6 (1997).
- 46. Loewenherz C, Fenske R A, Simcox N J, Bellamy G, **Kalman D**. Biological monitoring of organophosphorus pesticide exposure among children of agricultural workers in central Washington State. Environmental Health Perspectives, 105(12): 1344-53 (1997).
- 47. Pierce, CH, Dills, RD, Morgan, MS, Vicini, P, and **DA Kalman**. Biological monitoring of controlled toluene exposure. Int Arch Occup Environ Health 71: 433-444 (1998)
- 48. CH Pierce, TA Lewandowski, RL Dills, MS Morgan, MA Wessells, DD Shen and **DA Kalman**. A comparison of 1H8- and 1H8-toluene toxicokinetics in men.

 Xenobiotica, 29: 93-108 (1999).
- 49. Paolo Vicini, Crispin H. Pierce, Russell L. Dills, Michael S. Morgan, and **David A. Kalman**. Individual Prior Information in a Physiological Model of 2H8-Toluene Kinetics: An Empirical Bayesian Estimation Strategy. Risk Analysis 19, 1127-1134 (1999).
- 50. Simcox NJ, Camp J, **Kalman D**, Stebbins A, Bellamy G, Lee I, Fenske R. Farmworker Exposure to Organophosphorus Pesticide Residues during Apple Thinning in Central Washington State. . Am Ind Hyg Assoc J 60:752-761 (1999)
- 51. Moate T, Lu C, Fenske RA, Hahne RMA, and **Kalman D** Improved cleanup and determination of dialkylphosphates in the urine of children exposed to organo-phosphorous pesticides. J. Anal. Toxicol, 23: 230-236 (1999).
- 52. Kim, E, **Kalman**, **D**, and Larson, T. Dry Deposition of Large, Airborne Particles onto a Surrogate Surface. Atmospheric Environment, 43(15).2387-2397 (2000).
- 53. Fenske RA, Kissel JC, **Kalman D**, Simcox NJ, Keifer MC, Lu C, Allen E. Biologically based pesticide dose estimates for children in an agricultural community. Environ Health Perspect 108(6):515-520 (2000) [published on-line April 21, 2000.

- 54. Lu C, Fenske RA, Simcox NJ, **Kalman D**. Pesticide Exposure of children in an agricultural community: evidence of household proximity to farmland and take home exposure pathways. Environ Res 84(3): November (2000).
- 55. Liu LJS, Dills R, Paulsen M, Xiao H, **Kalman D**, A passive monitor for measuring aldehydes. EPIDEMIOLOGY, 10 (4): 3000 (1999)
- 56. Haque R, Chung J, **Kalman D**, Samanta S, Mitra S, Ghosh N, Santra A, Lahiri S, Guha, Mazumder D, Smith AH. Investigating susceptibility factors related to arsenic metabolism using a nested case-control design. EPIDEMIOLOGY,11 (4): 522 (2000)
- 57. Dills, RL, Zhu, X, **Kalman, DA**. Measurement of urinary methoxyphenols and their use for biological monitoring of wood smoke exposure. (in press, Environmental Research, (2001)
- 58. Liu LJS, Dills RL, Paulsen M, **Kalman DA**, Evaluation of media and derivatization chemistry for six aldehydes in a passive sampler. ENVIRONMENTAL SCIENCE & TECHNOLOGY, 35 (11): 2301-2308 (2001)
- 59. Pierce, CH, Chen, Y, Dills, RL, **Kalman, DA**, Morgan, MS. Toluene metabolites as biological indicators of exposure. Toxicology Letters, 129, 65-76 (2002).
- 60. Chung, JS, **Kalman, DA**, Moore, LE, Kosnett, MJ, Arroyo, AP, Beeris, M, Mazumder, DNG, Hernandez, AL, Smith, AH. Family correlations of arsenic methylation patterns in children and parents exposed to high concentrations of arsenic in drinking water. ENVIRONMENTAL HEALTH PERSPECTIVES, 110, 729-733 (2002)