

JEFFREY N. MORGAN

Acting Branch Chief, Chemical Exposure Research Branch

Supervisory Physical Scientist

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Education

Ph.D. Food Science, University of Georgia, 1985

M.S. Biochemistry, University of Georgia, 1980

B.S. Biochemistry, Purdue University, 1977

Employment

2008–Present Acting Chief, Chemical Exposure Research Branch, Microbiological and Chemical Exposure Assessment Research Division, NERL, ORD, US EPA, Cincinnati, OH

1995–2008 Research Chemist, Chemical Exposure Research Branch, Microbiological and Chemical Exposure Assessment Research Division, NERL, ORD, US EPA, Cincinnati, OH

1991–1995 Food Chemist, Development and Evaluation Branch, US EPA, Cincinnati, OH

1989–1991 Research Food Technologist, Food Engineering Branch, Food and Drug Administration, Summit-Argo, IL

1988–1989 Research Food Technologist, Food Engineering Branch, Food and Drug Administration, Cincinnati, OH

1985–1988 Junior Staff Fellow, Food Engineering Branch, Food and Drug Administration, Cincinnati, OH

Research Interest and Skills

Development and validation of sensitive analytical methods for determination of environmental contaminants in composite dietary samples.

Selected Appointments/Honors/Major Awards

US EPA NERL Representative, Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act: Analysis and Sampling Procedures Workgroup, 2009–present

Member, American Water Works Association Standard Methods Committee, 2008–present

Member, American Water Works Association Joint Task Group for Section 6620 Pyrethroids, 2008–present

US EPA Competitive NERL Internal Grant, 1996

US EPA Special Act, Superior Achievement, Superior Accomplishment, QSI and On-the-Spot Awards, 1991–present

Selected Publications/Presentations/EPA Reports

- Vonderheide, AP, K Thaxton, PE Kauffman and JN Morgan (2010) Investigation of reagent gases for the positive chemical ionization of select polybrominated diphenyl ethers. *Microchem. J.* 95(2):279-284.
- Medina-Vera, M, JM VanEmon, LJ Melnyk, KD Bradham, SL Harper and JN Morgan (2010) An overview of measurement method tools available to communities for conducting exposure and cumulative risk assessments. *J. Exposure Sci. Environ. Epidemiol.* 20:359–370.
- Evans, O, P Kauffman, AP Vonderheide, LJ Wymer, and JN Morgan (2009) The determination of pesticidal and non-pesticidal organotin compounds in water matrices by in situ ethylation and gas chromatography with pulsed flame photometric detection. *Microchem. J.* 92(2):155-164.
- Vonderheide, AP, CE Bernard, TE Hieber, PE Kauffman, JN Morgan and LJ Melnyk (2009) Surface-to-food pesticide transfer as a function of moisture and fat content. *J. Exposure. Sci. Environ. Epidemiol.* 19:97-106.
- Vonderheide, AP, B Boyd, A Ryberg, E Yilmaz, TE Hieber, PE Kauffman, ST Garris and JN Morgan (2009) Analysis of permethrin isomers in composite diet samples by molecularly imprinted solid-phase extraction and isotope dilution gas chromatography-ion trap mass spectrometry. *J. Chromatogr. A* 1216(22):4633-4640.
- Vonderheide, AP, PE Kauffman, TE Hieber, JA Brisbin, LJ Melnyk and JN Morgan (2009) Development of an analytical scheme for the determination of pyrethroid pesticides in composite diet samples. *J. Agric. Food Chem.* 57(6):2096-2104.
- Bradman, A, D Whitaker, L Quirós, R Castorina, BC Henn, M Nishioka, JN Morgan, DB Barr, M Harnly, JA Brisbin, LS Sheldon, TE McKone and B Eskenazi (2007) Pesticides and their metabolites in the homes and urine of farmworker children living in the Salinas Valley, CA. *J. Exposure Sci. Environ. Epidemiol.* 17:331-349.
- Melnyk, LJ, JN Morgan, R Fernando, ED Pellizzari, and O Akinbo (2003) Determination of metals in composite diet samples by inductively coupled plasma-mass spectrometry. *J. AOAC Int.* 86(2):439-447.
- Rosenblum, L, ST Garris and JN Morgan (2002) Comparison of five extraction methods for determination of incurred and added pesticides in dietary composites. *J. AOAC Int.* 85(5):1167-1176.
- Rosenblum, L, T Hieber and J Morgan (2001) Determination of pesticides in composite dietary samples by gas chromatography/mass spectrometry in the selected ion monitoring mode by using a temperature-programmable large volume injector with preseparation column. *J. AOAC Int.* 84(3):891-900.
- Morgan, JN (1999) Effects of processing on heavy metal content of food. *In: Impact of Processing on Food Safety*, Jackson, LS, MG Knize and JN Morgan (Eds.). Kluwer Academic/Plenum Publishers, New York, NY, pp. 195-211.
- Morgan, JN, MR Berry and RL Graves (1997) Effects of commonly used cooking practices on total mercury concentration in fish and their impact on exposure assessments. *J. Expo. Anal. Environ. Epidemiol.* 7(1):119-133.

- Sheldon, LS, JT Kever, JM Roberds, JB Beach and JN Morgan (1997) Method for measuring base/neutral and carbamate pesticides in personal dietary samples. *J. Expo. Anal. Environ. Epidemiol.* 7(1):37-59.
- Morgan, JN and DJ Armstrong (1992) Quantification of cholesterol oxidation products in egg yolk powder spray-dried with direct heating. *J. Food Sci.* 57(1):43-45.
- Morgan, JN and DJ Armstrong (1989) Wide-bore capillary gas chromatographic method for quantification of cholesterol oxidation products in egg yolk powder. *J. Food Sci.* 54(2):427-429.
- Morgan, JN, FJ Lin, RR Eitenmiller, HM Barnhart and RT Toledo (1988) Thermal destruction of *Escherichia coli* and *Klebsiella pneumoniae* in human milk. *J. Food Prot.* 51:132-136.
- Morgan, JN and DJ Armstrong (1987) Formation of cholesterol-5,6-epoxides during spray-drying of egg yolk. *J. Food Sci.* 52(5):1224-1227.
- Lin, FJ, JN Morgan, RR Eitenmiller, HM Barnhart, RT Toledo and F Maddox (1987) Thermal destruction of *Staphylococcus aureus* in human milk. *J. Food Prot.* 50:669-672.
- Morgan, JN, RT Toledo, RR Eitenmiller, HM Barnhart and F Maddox (1986) Thermal destruction of immunoglobulin A, lactoferrin, thiamin and folic acid in human milk. *J. Food Sci.* 51(2):348-351.