

Date of Preparation: 02/04/07

Signature

DAWN M. BIELAWSKI, PH.D.

Office Address: Wayne State University
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EDUCATION:

B.A. (1987-1991) Psychology

West Chester University, West Chester, PA

Honors Thesis: The Social Representation of Material Culture and Gender in Children's Books.

Advisor: Peter B. Crabb, Ph.D.

M.S. (1991-1993) Experimental Psychology

Villanova University, Villanova, PA

Thesis: The Effects of Restraint Stress on Alcohol Consumption in Pregnant Sprague-Dawley Rat Offspring.

Advisor: O. Byron Ward, Ph.D.

Ph.D. (1993-1999, With Distinction) Biopsychology, Minor: Clinical Neuropsychology
Wayne State University, Detroit, MI

Dissertation: The Effects of Paternal Alcohol Exposure on Sprague-Dawley Rat Offspring.

Advisor: Ernest L. Abel, Ph.D.

TRAINING:

Graduate Research Assistant

9/91-5/93 Department of Psychology, Villanova University, Villanova, PA

Fellow

9/93-8/94 Thomas C. Rumble Fellowship, Wayne State University, Detroit, MI

Trainee

9/94-8/98 Research Training in Prenatal Alcohol Studies Grant Appointment,
NIH/NIAAA, Wayne State University, Detroit, MI

Teaching Assistant

9/98-8/99 Graduate Teaching Assistant, Department of Psychology, Wayne State
University, MI

FACULTY APPOINTMENTS:

1997-99, 2001 Instructor, Psychology, Wayne State University

2002-present Assistant Professor, Pediatrics, Wayne State University

SUPPLEMENTAL TRAINING

2002	Gas Chromatography/Mass Spectrometry Training (Agilent Technologies, Alpharetta, GA)
2003, 2004	Grant Writing Seminar
2004	Basic Supervisor Development Program
2004	Scientific Manuscript Writing Course
2004	Radiological Safety, Bloodborne Pathogens, and Laboratory Safety certification (Office of Environmental Health and Safety, WSU)
2004	Resident Mentoring Seminar Series
2004-2007	Human Investigation Committee Training
2005-2007	Advanced Grant Writing Seminar
2005	The Seven Habits of Highly Effective Managers (Franklin Covey, 1 day seminar)
2006	Creating a Culture of Execution (Franklin Covey, ½ day seminar)
2007	Peripheral Neuropathy (½ day seminar)

MAJOR PROFESSIONAL SOCIETIES:

2005-present	American Chemistry Society
2006-present	American Medical Writers Association

HONORS/AWARDS:

1987-1990	Buckwalter Scholarship Award, Spring-Ford Sr. H.S., PA
1988	Psi Chi (Psychology Honor Society) Initiation, West Chester University, PA
1994-1999	Neuroscience Travel Award, School of Medicine, Wayne State University
1994-1999	Graduate Student Professional Travel Award, Department of Psychology and The Graduate School, Wayne State University
1997	Doctoral Dissertation Award, Wayne State University
1997	Graduate-Professional Scholarship, Wayne State University (declined)
1999	Certificate of Exceptional Service as a Graduate Teaching Assistant Teaching Own Course, The Graduate School, Wayne State University

SERVICE:

Ad hoc manuscript review for Alcohol, Alcoholism, Clinical & Experimental Research, Journal of Chromatography A, Neuroteratology & Toxicology, Therapeutic Drug Monitoring and Clinical Toxicology, Theriogenology.

1998	Grant application review for American Psychological Society Student Grant Program
1998-1999	Biopsychology Faculty Search Committee, Department of Psychology, Wayne State University
2002	Volunteer, Hutzel Hospital relocation.

2003-2004	President and Board Member, College of Science Alumni Constituent Group, Wayne State University
2003-2004	Board Member, Wayne State University Alumni Association
2004-2006	Board Member, College of Liberal Arts and Sciences Constituent Group, Wayne State University
2004-present	Chair, Department of Pediatrics Research Committee, Wayne State University
2004-present	Organizer, Pediatric Research Assistants/Associates Educational Series
2004-present	Member, Human Investigation Committee (Medical/Pediatric), Wayne State University
2004, 2006	Judge, Graduate Student Research Competition, School of Medicine, Wayne State University
2005-present	Volunteer, Graduate Fair, Wayne State University
2005-present	Judge and Essay-Reviewer, Scholars Day, Honors Program, Wayne State University

TEACHING:

1. Years at Wayne State: 3 teaching courses, plus 7 years mentoring
2. Years at other colleges/universities: N/A
3. Courses taught at Wayne State in the last seven years:

Summer, 1998	Brain & Behavior (PSY 3120), Wayne State University
Fall, 1998	Introductory Psychology (PSY 1020), Wayne State University
Winter 1999, 2001	Brain & Behavior (PSY 3120), Wayne State University
4. Essays/Theses/Dissertations Directed:

7/06-present	Dissertation Committee member, Cindy Bala-Brusilow, Sociology, Wayne State University
5/04-8/05	Dissertation Mentor, Tanya Martin, PsyD, Center for Humanistic Studies, "The African American's Experience of Imago Education"
1/05-5/05	Marisa Conte, M.S., Library and Information Sciences, "Herbal Supplement Use During Pregnancy" literature search
5. Course or curriculum development: Introductory Psychology, Brain & Behavior,
Assisted in the development of research education binder for Residents in Pediatrics.
6. Course materials (unpublished): syllabi, exams, assignments for Introductory
Psychology and Brain & Behavior
7. Other: Currently mentoring:

Joseph Neil Alviedo, M.D. (Fellow): Fatty acid ethyl esters as a biomarker of prenatal alcohol exposure: dose-dependent effects in an animal model.

Felix Banadera, M.D. (Fellow): Role of cytokines in the development of retinopathy of prematurity.

Previous mentoring:

Erwin Ramos, M.D. (Volunteer, 2005): Prenatal drug exposure in Southeast Asia as determined by meconium drug testing.

Josef Cortez, M.D. (Resident, 2004-2005): Genetic polymorphism of CYP1A1, GSTT1, and GSTM1 in drug-exposed neonates detected by meconium analysis.

Elizabeth Pensler (Medical Student, 2004) Detection of cotinine in meconium by ELISA

Joshua Romero (High School Student, 2003) Prenatal exposure to environmental tobacco smoke.

Gregorio Leonardo, M.D. (Fellow, 2001-2002) Gamma glutamyl transferase as a potential biomarker for prenatal alcohol exposure.
Joel Hernandez, M.D. (Resident, 2000-2002) Detection of fatty acid ethyl esters in meconium as a biomarker of prenatal alcohol exposure
Jack Kan, B.S. (post-bachelor's student, 2000-2001) Detection of fatty acid ethyl esters in meconium.

PUBLICATIONS:

Ward, I. L., Ward, O. B., Winn, R. J., & Bielawski, D. (1994). Male and Female Sexual Behavior Potentials of Male Rats Prenatally Exposed to the Influence of Alcohol, Stress, or Both Factors. Behavioral Neuroscience, 108(6), 1188-1195.

Crabb, P. B., & Bielawski, D. M. (1994). The Social Representation of Material Culture and Gender in Children's Books. Sex Roles, 30,(1/2):69-79.

Bielawski, D. M. & Abel, E. L. (1997). Acute Treatment of Paternal Alcohol Exposure Produces Malformations in Offspring. Alcohol, 14(4), 397-401.

Bielawski, D. M., Zaher, F. M., Svinarich, D. M., Abel, E. L. (2002). Paternal Alcohol Exposure Affects Sperm Cytosine Methyltransferase Messenger RNA Levels. Alcoholism: Clinical and Experimental Research, 26(3), 347-351.

Bielawski, D. M. & Abel, E. L. (2002). The Effect of Administering Ethanol as Single vs. Divided Doses on Blood Alcohol Levels in the Rat. Neuroteratology and Toxicology, 24, 559-562.

Corrion, M.L., Ostrea E.M. Jr., Bielawski, D. M., Posecion N.C., Jr., Seagraves, J.J. (2005). Detection of prenatal exposure to several classes of environmental toxicants and their metabolites by gas chromatography-mass spectrometry in maternal and umbilical cord blood. J Chromatogr B Analyt Technol Biomed Life Sci.,822(1-2):221-9.

Bielawski, D.M., Ostrea, E.M. Jr., Posecion, N.C., Corrion, M.L., Seagraves, J.J. (2005). Detection of Several Classes of Pesticides and Metabolites in Meconium by Gas Chromatography/Mass Spectrometry. Chromatographia, 62 (11/12), 623-629.

Ostrea, E.M., Jr., Villanueva Uy, E., Bielawski, D.M., Posecion Jr., N.C., Corrion, M.L., Janisse, J.J., Ager, J.W. (2006). Maternal hair-an appropriate matrix for detecting maternal exposure to pesticides. Environmental Research, 101, 312-322.

Ostrea, Jr., E.M., Hernandez, J.D., Bielawski, D.M., Kan, J.M., Leonardo, G.M., Abela, M.B., Church, M.W., Hannigan, J.H., Janisse, J.J., Ager, J.W., Sokol, R.J. (2006). Fatty acid ethyl esters in meconium: Are they biomarkers of fetal alcohol exposure and effect? Alcoholism: Clinical and Experimental Research, 30 (7), 1152-1159.

Ostrea Jr., E.M., Bielawski, D.M., Posecion Jr., N.C. (2006) Meconium analysis to detect fetal exposure to neurotoxicants (commentary). Archives of Diseases of

Childhood, 91(8), 628-629.

Ostrea Jr., E.M., Bielawski, D.M., Posecion Jr., N.C. (2006). Letter to the editor. Environmental Research, 102, 365-366.

Posecion, N.C., E.M. Ostrea, Jr., Bielawski, D.M., Corrion, M.L., Seagraves, J.J., Jin, Y. (2006). Detection of exposure to environmental pesticides during pregnancy by the analysis of maternal hair using GC-MS. Chromatographia, 64(11/12), 681-687.

Rohlman DS, Villanueva-Uy E, Ramos EM, Mateo PC, Bielawski DM, Chiodo LM, Delaney-Black V, McCauley L, Ostrea EM. Cross-cultural comparison of a neurobehavioral test battery for children. *Neurotoxicology*, Submitted 02/01/07.

PUBLISHED ABSTRACTS:

Bielawski, D. M. & Abel, E. L. (1997). The Effects of Paternal Alcohol Exposure on Fetal Outcome. Alcoholism: Clinical and Experimental Research, 21(3), 121A. Research Society on Alcoholism, San Francisco, CA.

Bielawski, D. M. & Abel, E. L. (1998). The Effects of Administering Ethanol in Single vs. Dual Doses on Blood Alcohol Levels in Male Sprague-Dawley Rats. Alcoholism: Clinical and Experimental Research, 22(3), 107A. Research Society on Alcoholism, Hilton Head, SC.

Bielawski, D. M., Abel, E.L., & Svinarich, D. M. (1998). Chronic Paternal Alcohol Exposure Affects Fetal Weight. Alcoholism: Clinical and Experimental Research, 22(3), 105A. Research Society on Alcoholism, Hilton Head, SC.

Bielawski, D. M., Zaher, F. M., Randall, S., Dombrowski, M. P., & Svinarich, D. M. (1999). The Role of eNOS in Ethanol-Induced Vascular Spasm in the Human Umbilical Cord Artery. Alcoholism: Clinical and Experimental Research, 23(5): 109A, No. 622. Research Society on Alcoholism, Santa Barbara, CA.

Bielawski, D. M., Zaher, F. M., Svinarich, D. M., & Abel, E. L. (2000). Chronic Paternal Alcohol Exposure Affects Sperm Cytosine Methyltransferase mRNA Levels. Alcoholism: Clinical and Experimental Research, 24(5): No. 557. Research Society on Alcoholism, Denver, CO.

Ostrea, Jr., E. Villanueva-Uy, E., Hernandez, J., Alvarez, M., Jabile, J., Mehretab, Y., Bielawski, D., Posecion, T. A., & Reyes, A. (2001). Antenatal Exposure to Passive Smoking: An Underestimated Danger. Pediatric Research, 49(4): 318A, No. 1818. Pediatric Academic Societies Annual Meeting, Baltimore, MD.

Kan J, Hernandez J, Leonardo G, Bielawski D, Ostrea EM Jr; Abela M, Church M. Analysis of fatty acid ethyl esters (FAEE) in meconium by gas chromatography/mass

spectroscopy. Pediatric Research Program Issue.

Kan J, Hernandez J, Leonardo G, Bielawski D, Ostrea EM Jr; Abela M, Church M, Sokol R. Fatty acid ethyl esters (FAEE) in meconium: Potential biomarker of fetal exposure to alcohol. Pediatric Research Program Issue.

Bielawski, D. M., Ostrea, Jr., E. M., Hernandez, J. D., Abela, M. B., Church, M. W., Hannigan, J. H., Sokol, R., J. (2003). Detection of Fatty Acid Ethyl Esters in Meconium by Positive Chemical Ionization Gas Chromatography/Mass Spectrometry (GC/MS). Alcoholism: Clinical and Experimental Research, 27(5): 39A, No. 202. Research Society on Alcoholism, Ft. Lauderdale, FL.

Corrion, M. L., Ostrea, Jr., E. M., Bielawski, D. M., Posecion, Jr., N.C., Seagraves, J.J. (2004). Determination of Prenatal Exposure to Several Classes of Environmental Toxicants and Their Metabolites by Gas Chromatography/Mass Spectrometry (GC/MS) in Maternal Blood and Cord Blood. Abstract M2Cp-06. International Society of Exposure Analysis, Philadelphia, PA.

Ostrea, Jr., E. M., Bielawski, D. M., Posecion, Jr. N.C., Corrion, M. L., Seagraves, J.J. (2004). Maternal Hair – Ideal Matrix to Detect Maternal Exposure to Environmental Pesticide/Herbicide. Abstract M2Cp-04. International Society of Exposure Analysis, Philadelphia, PA.

Ostrea, Jr., E. M., Bielawski, D. M., Posecion, Jr., N.C., Corrion, M. L., Seagraves, J.J. (2004). Meconium – The Best Matrix to Detect Fetal Exposure to Environmental Pesticide/Herbicide. Abstract M2C01. International Society of Exposure Analysis, Philadelphia, PA.

Posecion, Jr., N.C., Ostrea, Jr., E. M., Bielawski, D. M., Corrion, M. L., Seagraves, J.J. (2004). Detection of Maternal Exposure to Environmental Pesticides by GCMS Analysis of Maternal Hair. Abstract M2Cp-03. International Society of Exposure Analysis, Philadelphia, PA.

Ostrea, Jr., E. M., Bielawski, D. M., Posecion, Jr., N.C., Corrion, M. L., Seagraves, J.J. (2004). Meconium Analysis: A Promising Tool to Detect Fetal Exposure to Environmental Toxicants. Science to Achieve Results Progress Review Workshop, Philadelphia, PA.

Taub, J.W., Ostrea, Jr., E.M., Bielawski, D., LaFiaura, K., Ge, Y. (2005). Prenatal Pesticide Exposure and the Generation of Leukemia-Associated Chromosomal Markers Detected in Cord Blood Samples. Pediatric Academic Societies, Washington, D.C.

Ostrea, Jr., E.M., Hernandez, J.D., Bielawski, D.M., Kan, J., Leonardo, G.M., Abela, M.B., Church, M.W., Hannigan, J.H., Sokol, R.J. (2005). Fatty Acid Ethyl Esters in Meconium: Are They Biomarkers of Fetal Alcohol Exposure and Effect?

The purpose of this study is to develop a method to detect in meconium major components of herbal compounds commonly used during pregnancy. Ultimately, the effects of herbal substances used during pregnancy could be elucidated using this method.

COMPLETED RESEARCH SUPPORT:

P30 ES06639 Ostrea, Jr. (PI)

02/01/2003 – 01/31/2004

Cytogenetic abnormalities in infants exposed *in utero* to environmental toxins
NIEHS (EHS Center Grant of Wayne State University)

The major goal of this pilot project was to obtain preliminary data on cytogenetic (chromosomal and molecular) abnormalities in infants who are exposed, *in utero*, to environmental toxicants.

Role: Consultant

RFA 2001-STAR-H1 Ostrea, Jr. (PI)

4/01/02-3/31/06

Meconium analysis - a promising tool to detect fetal exposure to environmental toxins
EPA/NCER

The goal of this study is to develop the meconium test as a diagnostic tool to detect fetal exposure to heavy metals and common pesticides during pregnancy.

Role: Consultant

Borsody (PI)

American Heart Association, Northwestern Memorial Foundation Women's Board
Haptoglobin Isoforms and Vasospasm After Subarachnoid Hemorrhage

The goal of this study is to determine if certain haptoglobin isoforms increase the likelihood of developing vasospasm after aneurismal subarachnoid hemorrhage. This is a multicenter study involving the Detroit Medical Center and Northwestern University.

Role: Consultant

UNFUNDED RESEARCH APPLICATIONS:

Bielawski (PI)

Basil O'Connor Starter Scholar Research Award

March of Dimes Birth Defects Foundation The Effects of Herbal Supplements on
Pregnancy Outcome

The goal of this research is to determine the extent of herbal supplement use during pregnancy and the effects on the fetus.

Ostrea, Jr. (PI)

NICHD/NIEHS R01 Infants, Pesticides, & the Fetal Basis of Adult Disease

The purpose of this project is to monitor ongoing pesticide exposure in the cohort of children studied since before birth, and to correlate this exposure with growth and neurodevelopmental outcomes.

Note: Resubmitted 11/1/05

Festival of Trees, Children's Hospital of Michigan

Principal Investigator: Enrique Ostrea, Jr. MD

Genetic damage associated with prenatal pesticide exposure

Role: Co-Investigator
Submitted 3/05

EPA Building International Capacity for Children's Environmental Health
Principal Investigator: Deepak Kamat Co-Investigators: Bonita Stanton, Enrique
Ostrea, Jr., Xiaoming Li, Ambika Mathur, Dawn Bielawski
Submitted 11/04

NCER/EPA Meconium analysis – a new tool to detect fetal exposure to environmental
toxins
Principal Investigator: Enrique Ostrea, Jr. MD,
Role: Co-Investigator
Submitted 2/04