

CURRICULUM VITAE

Dawn M. Bielawski, Ph.D.

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EDUCATION

1987-1991 B.A., 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.

1991-1993 M.S., Experimental Psychology, Villanova University, Villanova, PA
Master's Thesis: The Effects of Restraint Stress on Alcohol Consumption in Pregnant Sprague-Dawley Rats. Advisor: O. Byron Ward, Ph.D.

1993-1999 Ph.D. (*With Distinction*), Major: Biopsychology, Minor: Clinical Neuropsychology, Wayne State University (WSU), Detroit, MI
Doctoral Dissertation: The Effects of Paternal Alcohol Exposure on Sprague-Dawley Rat Offspring. Advisor: Ernest L. Abel, Ph.D.

2012-2014 Post-Graduate Certificate in Complementary Therapies in Healthcare, Nursing, WSU, Detroit, MI. Advisor: Judith Fouladbakhsh, PhD

TRAINING

1991-1993 Graduate Research Assistant, Psychology, Villanova University, Villanova, PA
1993-1994 Pre-doctoral Fellow, Thomas C. Rumble Fellowship, Wayne State University (WSU), Detroit, MI
1994-1998 Pre-doctoral Trainee, Research Training in Prenatal Alcohol Studies Grant, NIH/NIAAA, WSU
1998-1999 Graduate Teaching Assistant, Department of Psychology, WSU
1999-2002 Postdoctoral Trainee, Pediatrics, WSU, Advisor: Enrique Ostrea, Jr., M.D.

PROFESSIONAL APPOINTMENTS

1997-99, 2001 Instructor, Psychology, WSU
2002-2011 Assistant Professor (Research), Pediatrics, WSU
2005-2011 Member, Pediatric Prevention Research Center, Pediatrics, WSU
2007-2009 Member, Environmental Pediatrics Core, Environmental Health Sciences Center for Molecular and Cellular Toxicology with Human Applications, WSU
2009-2011 Member and Lab Manager, Children's Research Center of Michigan,

2011-present	Children's Hospital of MI Senior Institutional Review Board (IRB) Review Specialist, Division of Research, WSU
2016-present	Research Associate, Division of Hematology/Oncology, Pediatrics, WSU

PROFESSIONAL DEVELOPMENT

Technical

2002, 2010	Gas Chromatography/Mass Spectrometry Training (Agilent Technologies)
2004-2010	Annual Radiological Safety, Bloodborne Pathogens, and Laboratory Safety certification (Office of Environmental Health and Safety, WSU)
2007	Update on Demyelinating Peripheral Neuropathies: New Diagnostic & Management Options (Division of Continuing Medical Education, WSU)
2008-present	CITI Human Subjects Training for IRB members and researchers (extensive online modules and exams for regulatory compliance)
2016-present	National Oceanic and Atmospheric Administration (NOAA) Climate Stewards Program (included 2-day workshop on Climate Change at Detroit Zoo, online seminars ongoing)
2017	OpEd Project (2 day workshop at Wayne State University), is a social venture founded to increase the range of voices and quality of ideas we hear in the world.

Management

2004	Basic Supervisor Development Program (WSU)
2005	The Seven Habits of Highly Effective Managers (Franklin Covey)
2006	Creating a Culture of Execution (Franklin Covey)
2017	Leadership Styles, Negotiation Skills, and Microaggressions (WSU)

Academic

2003, 2004, 2010	Grant Writing Seminar (Grant Writers' Seminars & Workshops)
2004	Scientific Manuscript Writing Course (WSU)
2004	Resident Mentoring Seminar Series (Pediatrics, WSU)
2005	Advanced Grant Writing Seminar (Grant Writers' Seminars & Workshops)
2006	grants.gov training (Sponsored Programs Administration, WSU)
2006-2007	Intensive Grant Writing Course (Grant Writers' Seminars & Workshops)
2008	Scientific Research Administration (SRA) MI Chapter Conference, Grand Rapids, MI
2008	American Medical Writers Association (AMWA) Greater Chicago Area Conference, Abbott Park, IL
2010	AMWA Michigan Conference, Ann Arbor, MI
2012	OHRP webinar – Nuts & Bolts of 45 CFR 46
2012	Michigan Research Ethics Conference, Grand Rapids, MI
2013	Office of Human Research Protections (OHRP) Research Community Forum, Rochester, MI
2014	Michigan Research Ethics Conference, Grand Rapids, MI
2014	Public Responsibility in Medicine and Research (PRIM&R) Conference, Baltimore, MD
2015	2015 Surgeons General Summit at the National Medical Association Convention and Scientific Assembly, Detroit MI
2016	AMWA Conference, Denver, CO
2016	PRIM&R Conference, Anaheim, CA

2017 Single Institutional Review Boards pre-conference, San Antonio, TX
2017 PRIM&R Conference, San Antonio, TX

MAJOR PROFESSIONAL SOCIETIES

1990-present Member, Psi Chi, the National Honor Society in Psychology
2005-2010 Member, American Chemical Society (ACS)
2006-present Member, American Medical Writers Association (AMWA)
2007-2010 Member, American Association for the Advancement of Science (AAAS)
2008-2010 Member, Society of Research Administrators (SRA) International
2010-2011 Member, Toastmasters International
2014-present Member, Public Responsibility in Medicine and Research (PRIM&R)

HONORS/AWARDS

1987-1990 Buckwalter Scholarship Award, West Chester University, PA
1993-1994 Thomas C. Rumble Fellowship, WSU
1994-1999 Neuroscience Travel Award, School of Medicine, WSU
1994-1999 Graduate Student Professional Travel Award, Department of Psychology and The Graduate School, WSU
1997 Doctoral Dissertation Award, WSU
1997 Graduate-Professional Scholarship, WSU (declined)
1999 Certificate of Exceptional Service as a Graduate Teaching Assistant
Teaching Own Course, The Graduate School, WSU
Note: Only 1 award was bestowed per year for the Psychology Dept.

SERVICE

Departmental

2004-2007 Chair, Department of Pediatrics Research Committee, WSU
2004-2007 Organizer, Pediatric Research Assistants/Associates Educational Series, Department of Pediatrics, WSU
2007-2010 Member, Resident Scholarship Oversight Committee, Pediatrics, WSU
2007-2010 Member, Pediatric Strategic Planning Workgroup: Nutrition, Wellness, & Obesity, Pediatrics, WSU
2007-2010 Member, Pediatric Strategic Planning Workgroup: Childcare/Daycare Facilities, Pediatrics, WSU
Note – I researched and presented to the faculty and CHM Board 4/08.
2009-2010 Evaluator, Wolf W. Zuelzer Fellow Research Presentations

School of Medicine

2004-2007 Judge, Graduate Student Research Competition, School of Medicine, WSU

University

1998-1999 Biopsychology Faculty Search Committee, Psychology, WSU
Note – I was the graduate student representative on this committee.
1998-1999 Psychology Faculty Meeting Student Representative, WSU
2003-2004 President and Board Member, College of Science Alumni, WSU
2003-2004 Board Member, WSU Alumni Association
2004-2006 Board Member, College of Liberal Arts and Sciences Alumni, WSU
2005-2007 Volunteer, Graduate Fair, WSU

2005-2010 Judge and Essay-Reviewer, Scholars Day, Honors Program, WSU
 2007, 2011, 2015 Association for the Accreditation of Human Research Protection Programs (AAHRPP) accreditation interviewee representing WSU IRB
 2011 Volunteer for Late Night Breakfast, serving to students during finals week
 2012-2016 Proofreader for SEED Wayne program newsletters, WSU
 2013-2016 Cooked healthy meals for SEED Wayne student volunteers, WSU

Professional

2007-2009 Chair, Education Committee, American Medical Writers Association, MI Chapter
Note – Led the committee in re-establishing medical communications education conferences in MI after the chapter had been inactive for many years; involved monthly meetings a few hours long, conference planning. In May 2008, I chaired first conference in Ann Arbor, MI.
 2011-present Director, NeuroSpring (formerly Northern Neurosciences, a non-profit organization)

Community Service

2002 Volunteer, Hutzel Hospital relocation
 2005-2007 Volunteer Teacher, Nursery (children up to 1 yr old), Renaissance Unity Church, Warren, MI
 2015 Volunteer, First Responders for Fitness

Scholarly Service

Grant Review Committees

1998 Grant application review for American Psychological Society Student Grant Program, written reviews submitted
 2009 Grant reviewer, Collaborative Initiative for Fetal Alcohol Spectrum Disorders (CIFASD/NIH), full member

Service for Peer-Reviewed Journals

1999-2011 Manuscript reviewer for Alcohol, Alcoholism, Clinical & Experimental Research
 2005-2011 Manuscript reviewer for Journal of Chromatography A, Neuroteratology & Toxicology, Therapeutic Drug Monitoring, and Clinical Toxicology
 2006-2011 Manuscript reviewer for Theriogenology
 2007-2015 Manuscript reviewer for Journal of the American Board of Family Medicine
 2008-2011 Manuscript reviewer for Clinical Pharmacology and Therapeutics, Environmental Research, Journal of Pediatrics

Other Scholarly Service

2004-present Member, Institutional Review Board (IRB, Medical/Pediatric – MP2), WSU
 2010-2016 Judge, Annual Research Day, Providence Hospital (St. John Providence Health System), Southfield MI
 2011-present Alternate Institutional Review Board (IRB) Committee Member (Medical – M1, Medical/Pediatric – MP4, and Phase 1 – PH1), WSU
 2015-present Alternate Institutional Review Board (IRB) Committee Member (Behavioral – B3), WSU

Consulting

2007 Editor, The Short History of Man by Mark Borsody, M.D., Ph.D. (a science fiction novel)
 2008-present Proprietor, The Editing & Writing Alchemist, LLC, specializing in medical

and scientific writing and editing

2009 Editor, Quotes and Anecdotes on How to Avoid the “Yeah But Syndrome” by Tanya L. Martin, Psy.D. (a self-help book)

2010 Editor, Magic Bullets by Michael Keese and Ankesh Kothari (a marketing guide)

2010-2011 Author, “Insect-borne Illness and Disease, National Institutes of Health”, “DDT”, “Wound infection”, “Malaria vaccine” essays for Salem Health: Infectious Diseases and Conditions

2010-2011 Author, “Electromagnetic hypersensitivity”, “Traditional healing (worldwide)”, “Meditation”, “Caffeine addiction and dependency” essays for Salem Health: Complementary and Alternative Medicine

2010-2014 Writing Coach & Editor, Single African American Women’s Interpretation of Primary Healthcare Access Barriers: A Phenomenological Study, doctoral dissertation of Victor Lloyd (he defended and graduated in 2016)

2011 Editor, Coupling Intelligent Transportation Systems and Wireless Mesh Networks, dissertation of Alfred E. Green, University of Detroit, Mercy

2011-present Scientific expert and editor for NeuroSpring (formerly Northern Neurosciences, a non-profit organization)

2012-2014 Editor, Healthcare Reform Policy Decision-Making: A Phenomenological Study of Illinois Legislative Latino Caucus Members, doctoral dissertation of Carmenza Millan (she defended and graduated in 2015)

2012 Editor, “Primary care research – trade-off between representativeness and response rate of GP teachers for undergraduates”, multiple authors, Leipzig Medical School, Leipzig, Germany

2012 Editor, “Factors associated with family-centered involvement in family practice – A cross-sectional multivariate analysis”, multiple authors, Leipzig Medical School, Leipzig, Germany

2013 Editor, “The use of diagnostic rapid tests among general practitioners: a cross-sectional study”, multiple authors, Leipzig Medical School, Leipzig, Germany

2014 Editor, “Who wants to become a GP? Student and curriculum factors associated with GP career choice – a multivariable analysis with particular consideration of practice-oriented GP courses”, multiple authors, Leipzig Medical School, Leipzig, Germany

2014 Editor, “The role of immune biomarkers for individualized treatment decisions in patients’ sepsis”, Philipp Schuetz & Beat Mueller, Medical University Clinic, Kantonsspital Aarau, Switzerland

2014 Editor, Soul Sex: The Alchemy of Gender & Sexuality by Drake Bear Stephen (book about biological, sociological, psychological, and spiritual origins of sexual and gender identities)

2014 Editor, What’s Up, Dock? by John D. Crissman (a children’s book)

2014 Editor, Sassafras Cats of Izumba by John D. Crissman (a children’s book)

2014-2015 Editor, A Diverse Student Organization and African American Males at a Predominantly White Institution: A Qualitative Phenomenological Study, doctoral dissertation of Helen Fernandez

2014-2017 Writing Coach & Editor, The Role of Positive Behavior Support in Classroom Climate – A Case Study, doctoral dissertation of Gina Walker (she defended and graduated in 2018)

2015 Editor, “Choosing to become a general practitioner – what attracts and what deters? A qualitative and descriptive statistical analysis of medical graduates’ motives”, multiple authors, Leipzig Medical School, Leipzig, Germany

- 2015 Editor, "Medical students' attitude and wishes towards extending an educational general practice app to be suitable for practice", multiple authors, Leipzig Medical School, Leipzig, Germany
- 2015 Editor, The Psychology of Racism by Andre Fields, PhD (a book for counselors)
- 2015 Edited eight resumes for professionals in various fields, all of whom obtained employment
- 2015 Editor, Guiding Healthcare Technology Implementation: A New Integrated Technology Implementation Model, doctoral dissertation of Ronda Schoville
- 2016 Your Body's Environmental Chemical Burden, book by Cindy Klement, (nutritionist)
- 2016 Human Behavior, course introduction, and curation of materials for Institute for Transformational Learning (an initiative with the University of Texas)
- 2016 Editor, "Social workers and mobile child crisis screening", Cynthia Arfken, WSU
- 2016 Editor, "A quick test for cognitive speed – results from a normative study in Germany", multiple authors, Leipzig Medical School, Leipzig, Germany
- 2017 Editor, "Willingness to commute among future physicians: A multicenter cross-sectional survey of German medical students", multiple authors, Leipzig Medical School, Leipzig, Germany
- 2017 Editor, "Patient satisfaction as moderator of risky alcohol consumers' attitude towards screening and brief intervention: A cross sectional survey", multiple authors, University of Halle-Wittenberg, Germany (Note – This was the primary author's first publication in English)
- 2017 Editor, multiple psychiatric modules, American Physician Institute
- 2017-2018 Writing Coach for Akua Woolbright, PhD, Whole Cities Foundation (Whole Foods) – Web site content, curriculum, book
- 2018 Editor, Grant proposal (title currently confidential), MSISRP Toward A Next-Generation Trauma Care System: Foundational Research for Autonomous, Unmanned, and Robotics Development of Medical Technologies (FORwARD) Program, Mark Borsody, M.D., Ph.D.
- 2018 Editor, "Willingness, concerns, incentives and acceptable remuneration regarding an involvement in teaching undergraduates - a cross-sectional survey among German GPs", multiple authors, Leipzig Medical School, Leipzig, Germany
- 2018 Editor, Kausay Companions: Ancient Tools to Navigate the Contemporary World of Our Indigenous Soul by Drake Bear Stephen and Wake Wheeler (a spiritual/cultural book)
- 2018 Writing Coach for personal statement for medical school application for Nick Corsi
- 2018 Writing Coach for Tanya Martin, PhD, book title to be determined

TEACHING EXPERIENCE

Years at WSU: 1997 - present: 2 years as graduate student (independently as Instructor of Record, Psychology), 1 year as Part-time Adjunct Faculty (Instructor, Psychology), 8 years as Asst. Professor, Research (Pediatrics), 7 years occasional education sessions at WSU IRB

Teaching at WSU

Undergraduate Students

- 1997-1998 Introductory Psychology (PSY 1020), Instructor, WSU
1998-2001 Brain & Behavior (PSY 3120), Instructor, WSU

Residents/Fellows

- 2008 Pediatric Fellows Lectures, WSU (2 lectures)

Mentorship (previous)

- 2000-2001 Jack Kan, B.S. (post-bachelor's student) Detection of fatty acid ethyl esters in meconium. *Current status – Medical fellowship at UC Davis, CA.*
- 2000-2002 Joel Hernandez, M.D. (Pediatrics Resident, WSU) Detection of fatty acid ethyl esters in meconium as a biomarker of prenatal alcohol exposure. *Current status - practicing Pediatric Nephrologist, Los Angeles, CA.*
- 2001-2002 Gregorio Leonardo, M.D. (Neonatology Fellow, Pediatrics WSU) Gamma glutamyl transferase as a potential biomarker for prenatal alcohol exposure.
- 2003 Joshua Romero (High School Student) Prenatal exposure to environmental tobacco smoke.
- 2004 Elizabeth Pensler (Visiting Medical Student) Detection of cotinine in meconium by ELISA.
- 2004-2007 Neil Joseph Alviedo, M.D. (Pediatrics Fellow, WSU), "Fatty acid ethyl esters in meconium: Are they biomarkers of effect of *in utero* exposure to alcohol?" *Current status- Neonatologist, Florida*
- 2005 Erwin Ramos, M.D. (Volunteer, Pediatrics, WSU): Prenatal drug exposure in Southeast Asia as determined by meconium drug testing.
Current status-Psychiatry Chief Resident, Bronx, NY
- 2005-2007 Felix Banadera, M.D. (Pediatrics Fellow, WSU) "Association of postnatal serum IGF-1 and VEGF levels with stages of retinopathy of prematurity." *Current status- Practicing physician, Philippines*
- 2007-2008 Josef Cortez (Fellow, Neonatology, Pediatrics, WSU), "Fatty acids in plasma of virgin coconut oil consumers"
- 2008 Ryan Switzer (Pre-med student, MSU), "Fatty acids in plasma of virgin coconut oil consumers"
- 2007-2008 Amy Martin (Fellow, Neonatology, Pediatrics, WSU), "Medication and drug use in pregnancy"
- 2006-2009 Gail Prado, M.D. (Post-doctoral volunteer): "Effects of herbal supplement use during pregnancy"
- 2008-2011 Sarah Birn (Research Asst., Pediatrics, WSU), "Pesticides in hair and house dust of Filipino children"

Essays/Theses/Dissertations Directed

- 2005 Marisa Conte, M.S., Library and Information Sciences, WSU, "Herbal Supplement Use During Pregnancy"
- 2004-2007 Dissertation Mentor, Tanya Martin, PsyD, Center for Humanistic Studies, Farmington Hills, MI, "The African American's Experience of Imago Education", *published in Journal of Humanistic Psychology, 2009*
- 2006-2010 Dissertation Committee member, Cindy Bala-Brusilow, Sociology, WSU, "Social Factors Contributing to Childhood Obesity in the United States"

Course or curriculum development: Introductory Psychology, Brain & Behavior, (developed curriculum, handouts, presentations, exams, and writing assignments for both), assisted in the development of research education binder for Residents in Pediatrics, developed lectures for Pediatric Fellows on gas chromatography and detectors.

Course materials (unpublished): syllabi, exams, assignments for Introductory Psychology and Brain & Behavior (1988-2001), handouts for Pediatric Fellows Lectures (2008). Developed presentations and handouts for IRB training sessions.

GRANTS, CONTRACTS, AND OTHER FUNDING

Previously Funded Grants & Contracts

R01 (HD3942801) Ostrea, Jr. (PI)

4/1/02 – 3/31/13

NOTE: I left this project for another position in 2011

NIH/NICHD

Total direct cost: \$2,127,154

Fetal Exposure to Environmental Toxins and Child Outcome

The overall aim of this research is to measure pesticides in children's hair and house dust, and to determine the effects of prenatal and postnatal pesticide exposure on neurodevelopmental outcomes at ages 4 and 6 years, continuing extensive assessment that began prenatally.

Role: Until 1/24/11, was a Co-Investigator, 60% effort

Submitted 7/06, priority score 214 at the 31.7 percentile

Resubmitted 7/07 priority score 117 at 0.4 percentile

Note – I worked intensively on this project and associated grant applications since 2001. I oversaw the US budget, IRB paperwork, and all other administrative issues associated with this grant. The PI is in the Philippines for approximately half of the year and we corresponded by teleconference and e-mail during that time; I ensured that he was aware of any administrative or laboratory-related issues. I was responsible for all of the laboratory methods and sample analysis, as well as training of all research assistants who were involved in the project. I was also responsible for all management tasks related to the laboratory where sample analysis is performed. With regard to the grant applications, I wrote the administrative portions (budget justification, facilities & resources, etc.), met with departmental and SPA administrators regarding development and administration of the budget, and contributed substantially to the study design and scientific portions in meetings and in drafts of the grant. I proofread multiple drafts including the final version, and put the final, edited versions of the grants into the appropriate format, meticulously following all NIH guidelines. I was also responsible for major sections of the annual progress report and compiling all documents and submitting them according to NIH guidelines.

Bielawski (PI) 5% effort

1/1/05-12/31/11

Children's Research Center of MI

Total direct cost: \$49,078

The Impact of Prenatal Propoxur Exposure on Genetic and Epigenetic Markers

The purpose of this study is to examine the impact of prenatal exposure to the pesticide propoxur on genetic and epigenetic effects by analyzing cord blood samples from exposed and unexposed infants.

P30 ES06639 Ostrea, Jr. (PI)

02/01/03-01/31/04

NIEHS (EHS Center Grant of WSU)

Total direct cost: \$30,000

Cytogenetic abnormalities in infants exposed *in utero* to environmental toxins

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

Note – The role listed as “consultant” is due mainly to my salary having been covered 100% by the R01 listed above and the limited budget associated with this smaller grant. I was quite involved in the study design, and the writing and submission of the proposal and progress reports. I also developed methods for the sample analysis, trained the research assistants involved in the study, met with the program officer, and went to the EPA conference to report our findings.

Borsody (PI) 2005-2007
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 was a multicenter study involving the Detroit Medical Center and Northwestern University.
Role: Consultant

Bridge Funding Award, Ostrea, Jr. (PI) 12/06-12/07
WSU Total direct cost: \$21,086
Title: Fetal exposure to environmental toxins and infant outcome
The purpose of this award is to provide interim funding for investigators who have an ongoing, competitive extramural grant, but whose funding has been interrupted by an unsuccessful competitive renewal. This application was selected based on the likelihood of eventual funding (priority score, nature of the criticisms, how well the criticisms were addressed), and the applicant’s efforts to obtain external support.
Note – I compiled the necessary documents and wrote most of this application to obtain continued funding for a research assistant’s salary when R01 funding had temporarily ceased.

EHS Pilot Center Grant (Co-PI’s: Bielawski, Hudder) 5/1/08-4/30/09
WSU, NIEHS Total direct cost: \$20,000
The Impact of Prenatal Propoxur Exposure on Genetic and Epigenetic Markers
The purpose of this study is to examine the impact of prenatal exposure to the pesticide propoxur on genetic and epigenetic effects by analyzing cord blood samples from exposed and unexposed infants.

Previously Submitted, Unfunded Grants & Contracts

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.
Submitted 7/06

R21 ES016805-01 Ostrea, Jr., PI
NIH/NIEHS Total direct cost: \$278,760
Detection of Fetal Exposure to Paraquat by Meconium Analysis: A Feasibility Study
The purpose of this study is to determine the feasibility of using meconium as a biomarker of paraquat exposure by testing for the presence of paraquat in a highly exposed vs. unexposed population.
Role: Co-Investigator
Submitted 10/07

R03 (Bielawski)

R03 HD058770
NIH/NICHD

Total direct cost: \$100,000

The Effects of Prenatal Exposure to Herbal Supplements

The objective of this R03 proposal, as a step toward that goal, is to develop a reliable prenatal exposure animal model for herbal supplements commonly used by women during pregnancy.

Submitted 10/07

NIH-NICHD-NCS-09-07, National Children's Study Biological and Environmental Sample Repository Robert Sokol, Co-PI

Contract Period: 3/09 - 3/14

The overall aim of the contract is to provide a biological and sample repository for the samples coming from the National Children's Study, which is looking to recruit 105,000 children (from a total of 105 counties in the U.S.) to participate in a 21 year longitudinal study, starting from pre-conception. SeraCare Corp., if awarded the contract, requires experts with knowledge of special samples to provide advice on quality assurance.

Role: Consultant, 20 hr/year commitment.

Note – I provided a portion of the narrative regarding meconium and hair sample collection, storage, and analysis for the proposal. Provided information on QA measures, analytic tools, potential problems, and references.

Ostrea Jr. (PI)

4/1/10-3/13/2013

FIC/NIH

Fetal Exposure to Environmental Pesticides and Cytogenetic Effects

This study aims to examine the effects of prenatal pesticide exposure on genetic and epigenetic effects in Filipino children.

I wrote the administrative portions of this proposal and coordinated with the research team in the Philippines to gather necessary information.

Gray (PI)

7/1/10 – 6/30/15

CHM-CRCM Core Facility Renovations

Total direct cost: \$5,726,229

The goal of this proposal is to renovate research core facilities at Children's Hospital of Michigan (CHM) in order to provide optimal resources, services, education and training opportunities, and to facilitate future research growth and development using state-of-the-art approaches and technologies.

Role: Co-Investigator

I researched all of the equipment to be included in the budget of this complex grant and provided the full budget justification along with a table of detailed information about each item.

PUBLICATIONS

Original Observations in Refereed Journals

1. 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.

Cited in James W. Kalat's textbook, Biological Psychology, 5th Ed.

2. 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.

Reported in mass media, including major newspaper, The Philadelphia Inquirer (2/27/94) and cited in several textbooks and a United Nations report on Education in 2008.

Role – As an undergraduate, I conducted this study for my honors thesis.

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

Role – As a graduate student, conducted this study as part of my dissertation work.

4. **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.

Role – As a graduate student, conducted this study as part of my dissertation work.

5. **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. *Role – As a graduate student, conducted this study as part of my dissertation work.*

6. (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.

Role – Mentored the principal author and coauthors in the analytical method development, sample analysis, and manuscript writing, aided in sample analysis.

7. **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.

Role – Developed the method for extraction and analysis, mentored coauthors in the lab techniques and manuscript writing, validated the method and analyzed samples from children exposed vs. unexposed to pesticides in the Philippines.

8. 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.

Role – Contributed substantial input to the development of this analytical method, mentored coauthors in the method development, lab techniques, and manuscript preparation, and analyzed the majority of samples.

9. 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.

Selected for press release by the publisher and received international attention.

Role – I developed the method for extraction and analysis, mentored with regard to lab techniques, method development, sample analysis, and manuscript preparation. Also recruited most of the subjects; collected and analyzed meconium samples.

10. (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.

Role – Aided in the development of this analytical method, mentored coauthors in lab techniques, method development, and manuscript preparation, and assisted in sample analysis.

11. Lafiura KM, **Bielawski DM**, Posecion NC, Jr, Ostrea EM Jr, Matherly LH, Taub JW, Ge Y. (2007). Association between prenatal pesticide exposures and the generation of leukemia-associated T(8;21). Pediatr Blood Cancer. 2007 Oct 15;49(5):624-8.

A very favorable commentary on this article was published by one of the reviewers.

Role – Aided in the analysis of blood samples for this study, mentored coauthor in lab technique.

12. Ostrea, Jr. E.M., **Bielawski, D.M.**, Posecion, N.C., (Corrion)*, M.L., Villanueva-Uy E., (Jin)*, Y., Janisse J.J., Ager, J.W. (2008). A comparison of infant hair, cord blood and meconium analysis to detect fetal exposure to environmental pesticides. Environmental Research, 106(2):277-83.

Role – Developed these analytical methods and mentored coauthors in method development, sample analysis, and manuscript preparation; analyzed samples described.

13. Rohlman DS, Villanueva-Uy E, Ramos EM, Mateo PC, **Bielawski DM**, Chiodo LM, Delaney-Black V, McCauley L, Ostrea EM. (2008) Adaptation of the Behavioral Assessment and Research System (BARS) for evaluating neurobehavioral performance in Filipino children. Neurotoxicology, Jan;29(1):143-51. Epub 2007 Oct 23.

Role – Participated in the intellectual development of the study and the manuscript writing and revisions.

14. Posecion N.C., Ostrea Jr. E.M., **Bielawski D.M.** (2008). Quantitative Determination of Paraquat in Meconium by Sodium Borohydride-Nickel Chloride Chemical Reduction and Gas Chromatography/Mass Spectrometry (GC/MS). Journal of Chromatography B, Analyt Technol Biomed Life Sci. 862(1-2):93-9.

Role – Aided in the development of this analytical method, mentored the principal author in lab techniques, method development, and manuscript preparation and resubmission.

15. Ostrea Jr. EM, **Bielawski DM**, Posecion NC Jr., (Corrion)* M, Villanueva-Uy E, Bernardo R.C., (Jin)* Y, Janisse JJ, Ager JW. Combined analysis of prenatal (maternal hair and blood) and neonatal (infant hair, cord blood and meconium) matrices to detect fetal exposure to environmental pesticides. Environmental Research, 109(1), 2009, 116-122.

16. (Martin)** TL, **Bielawski DM**. (2011) What Is the African American's Experience Following Imago Education? Journal of Humanistic Psychology, 51(2), 216-228.

doi:10.1177/0022167809352379

Role – I mentored the primary author during her dissertation and throughout the publication process.

17. Ostrea EM, Villanueva-Uy E, **Bielawski D**, Sarah Birn*, Janisse JJ (2011). Analysis of House Dust and Children's Hair for Pesticides: A Comparison of Markers of Ongoing Pesticide Exposure in Children. J Bioanal Biomed 3(6), 113-117. doi:10.4172/1948-593X.1000054

18. Ostrea EM, Reyes A, Villanueva-Uy E, Pacifico R, Benitez B, Ramos E, Bernardo RC, **Bielawski DM**, Delaney-Black, V, Chiodo L, Janisse JJ, Ager JW (2012). Fetal exposure to propoxur and abnormal child neurodevelopment at 2 years of age. NeuroToxicology, 33(4), 2012, 669–675.

19. Borsody MK, Yamada C, **Bielawski D**, Heaton T, Lyeth B, Garcia A, Castro Prado F, Azpiroz J, Sacristan E. Effect of pulsed magnetic stimulation of the facial nerve on cerebral blood flow. Brain Res. 2013 Aug 28;1528:58-67. doi: 10.1016/j.brainres.2013.06.022.

Epub 2013 Jul 11.

20. Borsody MK, Yamada C, **Bielawski D**, Heaton T, Castro Prado F, Garcia A, Azpiroz J, Sacristan E. (2014). Effects of noninvasive facial nerve stimulation in the dog middle cerebral artery occlusion model of ischemic stroke. Stroke. 2014 Apr;45(4):1102-7. Epub 2014 Feb 18.

21. Ostrea EM, Villanueva-Uy E, **Bielawski D**, Sarah Birn*, Janisse JJ. (2014). Trends in long term exposure to propoxur and pyrethroids in young children in the Philippines. Environmental Research 131, 13–16.

22. Borsody MK, Garcia A, **Bielawski DM**, Yamada C, Sacristan E. (2017). Magnetic facial nerve stimulation in animal models of active seizure. Epilepsy Res. 2017 Mar;131:28-36. doi: 10.1016/j.eplesyres.2017.02.002.

Individual listed was a Research Assistant (RA)/Post-bachelor's student**/Pediatric Resident***/ Pediatric Fellow****/ Post-doctoral student***** mentored by DMB.*

Invited Commentary

23. Ostrea Jr., E.M., **Bielawski, D.M.**, Posecion Jr., N.C. (2006). Meconium analysis to detect fetal exposure to neurotoxicants (commentary) - Second perspective on the paper by Ortega García *et al.* Archives of Diseases of Childhood, 91(8), 628-629.

Role – Participated in the initial peer review of an article, contributed intellectually to the invited commentary responding to the article, and mentored RA in invited contribution writing as well.

Letter to the Editor

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

Role – Responded thoroughly to a critical evaluation of our work, mentored RA in responding appropriately to published critiques.

25. Ostrea Jr., E.M., **Bielawski, D.M.**, Posecion Jr., N.C. Response to “Commentary on 'Pesticide exposure levels in general and rural population'”. Environmental Research (2009), doi:10.1016/j.envres.2008.12.005

PUBLISHED ABSTRACTS

1. **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.

2. **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.

3. **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.

4. **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.

5. 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.

6. (Kan)** J, (Hernandez)*** J, (Leonardo)**** G, **Bielawski D**, Ostrea EM Jr; Abela M, Church M. (2002). Analysis of fatty acid ethyl esters (FAEE) in meconium by gas chromatography/mass spectroscopy. Pediatric Academic Societies

Role – Developed the method for extraction and analysis, mentored those involved in the study in method development and lab techniques, recruited subjects, collected and analyzed samples.

7. **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.

Role – Developed the method for extraction and analysis, mentored resident in the study in lab techniques, method development and sample analysis. Also recruited subjects, collected and analyzed samples.

8. **Bielawski, D.M.**, Ostrea, Jr., E.M., (Posecion)* Jr., N.C., (Corrion)*, M.L., (Seagraves)*, J.J. (2004). Detection of Fetal Exposure to Pesticides by Gas Chromatography/Mass Spectrometry (GC/MS) Analysis of Meconium. Abstract M2Cp-05. International Society of Exposure Analysis, Philadelphia, PA.

Role – Developed the method for extraction and analysis, mentored coauthors, validated the method and analyzed samples from children in the Philippines.

9. (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.

Role – Mentored the principal author and coauthors in creating and executing poster presentations, aided in development of the method.

10. 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.

Role – Mentored coauthors in creating and giving poster presentations, aided extensively in development of the method, analyzed the majority of samples reported on.

11. 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.

Role – Mentored coauthors in creating and giving poster presentations, aided in development of the method.

12. (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, Phila., PA.
Role – Mentored the principal author and coauthors in creating and giving poster presentations; aided extensively in development of the method and analyzed samples.
13. 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.
Role – Mentored the coauthors in creating and giving poster presentations, developed the method and analyzed samples to generate this data.
14. Taub, J.W., Ostrea, Jr., E.M., **Bielawski, D.**, LaFiura, 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.
Role – Aided in the analysis of blood samples for this study.
15. 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? Pediatric Academic Societies, Washington, D.C.
Role – Developed the method for extraction and analysis, mentored on study design, method development, and sample analysis; recruited subjects, collected and analyzed meconium samples.
16. Ostrea, Jr., E.M., **Bielawski, D.M.**, (Posecion)*, Jr., N.C., (Corrion)*, M.L., & (Jin)*, Y. (2005). Detection of Fetal Exposure to Environmental Pesticides: A Comparison of Various Matrices. Pediatric Academic Societies, Washington, D.C.
Role – Developed one and contributed extensively to the development of two other analytical methods, mentored coauthors in lab techniques, method development, and analyzed samples described.
17. (Banadera)****, F, (Alviedo)****, N, Lucas, W, Ostrea Jr., E, **Bielawski, D**, (Ramos)*****, E. Insulin-like growth factor (IGF-1) and vascular endothelial growth factor (VEGF) as potential biomarkers of retinopathy of prematurity (ROP). Pediatric Academic Societies, San Francisco, CA, May 2006.
Role – Mentored in the study design and sample analysis, and in the creation of graphic and oral presentations.
18. Ostrea EM, (Posecion)*, N, **Bielawski, D**, (Ramos)*****, E. Monitoring postnatal exposure of infants to pesticides at 1 year of age: Comparison of infant blood versus infant hair analysis. Pediatric Academic Societies, San Francisco, CA, May 2006.
Role – Mentored in conducting sample analysis, analyzed samples.
19. (Alviedo)**** N, (Banadera)**** F, Ostrea Jr., E, **Bielawski, D**, Hannigan J, McMechan A, (Posecion)* JR, N., (Ramos)*****, E, (Misiasz)* M. Fatty Acid Ethyl Esters (FAEEs): Biomarkers of Fetal Alcohol Exposure and Effect. Pediatric Academic Societies, Atlanta, GA, October 2006.
Role – Mentored in the study design, animal model, lab techniques, and sample analysis, and in the creation of poster and oral presentations. Assisted heavily in the performance of the study with regard to study design, animal surgeries, and sample analysis.

20. 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 in Development & Aging*, Little Rock, AR, September, 2006.

21. Ostrea Jr., EM, Reyes A, Pacifico R, Benitez B, Villanueva-Uy E, Ramos E, Mateo P, Delaney-Black V, **Bielawski D**, Janisse J, Ager J. Abnormal Neurodevelopmental (ND) Outcome at 2 Years of Age in Infants Prenatally Exposed to Pesticide (Abstract #: 751166). Pediatric Academic Societies, Toronto, May 2007.

22. (Posecion)*, Jr., NC, Ostrea Jr., EM, **Bielawski DM**. Detection of Fetal Exposure to Paraquat by Gas Chromatography/Mass Spectrometry (GC/MS) Analysis of Meconium (Abstract #: 752012). Pediatric Academic Societies, Toronto, May 2007.

Role – Aided in the development of this analytical method, mentored the principal author in method development, sample analysis, and creation of poster presentations.

23. Ostrea, Jr. E.M., Reyes, A.D, Pacifico, R., Benitez, B., Villanueva-Uy, E., Ramos, E., Mateo P., Delaney-Black, V., **Bielawski, D.**, (Posecion)*, N., Janisse, J., Ager, J. Abnormal Neurodevelopmental Outcome at 2 Years of Age in Infants Prenatally Exposed to Pesticides. Honolulu, Hawaii, May 2008.

24. (Birn)*, S., **Bielawski, D.**, & Ostrea E.M. Detection of ongoing exposure to pesticides in children by the analysis of housedust and hair. Pediatric Academic Societies, Vancouver, May 2010.

25. **Bielawski, D.M.**, Chiodo, L.M., Villanueva-Uy, M.E., Ostrea, Jr., E.M. Intra-family conflict and violence affecting Filipino children. Submitted to Pediatric Academic Societies, November, 2010.

Individual listed was a Research Assistant/Post-bachelor's student**/Pediatric Resident***/
Pediatric Fellow****/ Post-doctoral researcher***** mentored by DMB.*

PRESENTATIONS:

National/International Meetings

June, 1997 “The Effects of Paternal Alcohol Exposure on Fetal Outcome”, poster presentation at Research Society on Alcoholism, San Francisco, CA.

June, 1998 “The Effects of Administering Ethanol in Single vs. Dual Doses on Blood Alcohol Levels in Male Sprague-Dawley Rats”, poster presentation at Research Society on Alcoholism, Hilton Head, SC.

June, 1998 “Chronic Paternal Alcohol Exposure Affects Fetal Weight”, poster presentation at Research Society on Alcoholism, Hilton Head, SC.

June, 2000 “Chronic Paternal Alcohol Exposure Affects Sperm Cytosine Methyltransferase mRNA Levels”, poster presentation at Research Society on Alcoholism, Denver, CO.

May, 2001 “Antenatal Exposure to Passive Smoking: An Underestimated Danger”, poster presentation at Pediatric Academic Societies, Baltimore, MD.

June, 2003 “Detection of Fatty Acid Ethyl Esters in Meconium by Positive Chemical Ionization Gas Chromatography/Mass Spectrometry (GC/MS)”, poster presentation at Research Society on Alcoholism, Ft. Lauderdale, FL.

October, 2004 “Detection of Fetal Exposure to Pesticides by Gas Chromatography/Mass Spectrometry (GC/MS) Analysis of Meconium”, oral presentation at International Society of Exposure Analysis, Philadelphia, PA.

October, 2004 “Maternal Hair – Ideal Matrix to Detect Maternal Exposure to Environmental Pesticide/Herbicide,” poster presentation at International Society of Exposure Analysis, Philadelphia, PA.

October, 2004 “Meconium – The Best Matrix to Detect Fetal Exposure to Environmental Pesticide/Herbicide”, poster presentation at International Society of Exposure Analysis, Philadelphia, PA.

October, 2004 “Detection of Maternal Exposure to Environmental Pesticides by GCMS Analysis of Maternal Hair,” poster presentation at International Society of Exposure Analysis, Philadelphia, PA.

October, 2004 “Meconium Analysis: A Promising Tool to Detect Fetal Exposure to Environmental Toxicants,” poster presentation at EPA Science to Achieve Results Progress Review Workshop, Philadelphia, PA.

May, 2005 “Prenatal Pesticide Exposure and the Generation of Leukemia-Associated Chromosomal Markers Detected in Cord Blood Samples” poster presentation at Pediatric Academic Societies, Washington, D.C.

May, 2005 “Fatty Acid Ethyl Esters in Meconium: Are They Biomarkers of Fetal Alcohol Exposure and Effect?” poster presentation at Pediatric Academic Societies, Washington, D.C.

May, 2005 “Detection of Fetal Exposure to Environmental Pesticides: A Comparison of Various Matrices” poster presentation at Pediatric Academic Societies, Washington, D.C.

May, 2006 “Insulin-like growth factor (IGF-1) and vascular endothelial growth factor (VEGF) as potential biomarkers of retinopathy of prematurity (ROP)” presented at Pediatric Academic Societies, San Francisco, CA.

May, 2006 “Monitoring postnatal exposure of infants to pesticides at 1 year of age: Comparison of infant blood versus infant hair analysis” poster presentation at Pediatric Academic Societies, San Francisco, CA.

October, 2006 “Fatty Acid Ethyl Esters (FAEEs): Biomarkers of Fetal Alcohol Exposure and Effect” Pediatric Academic Societies poster presentation in Atlanta, GA.

September, 2006 “Cross-cultural comparison of a neurobehavioral test battery for children” oral presentation at Neurotoxicology in Development & Aging, Little Rock, AR.

May, 2007 “Abnormal Neurodevelopmental (ND) Outcome at 2 Years of Age in Infants Prenatally Exposed to Pesticide”, poster presentation at Pediatric Academic Societies, Toronto.

May, 2007 “Detection of Fetal Exposure to Paraquat by Gas Chromatography/Mass Spectrometry (GC/MS) Analysis of Meconium” poster presentation at Pediatric Academic Societies, Toronto.

May, 2010, “Detection of ongoing exposure to pesticides in children by the analysis of housedust and hair” poster presentation at Pediatric Academic Societies, Vancouver.

June, 2017 Haemoglobin After inTraCranial Haemorrhage (HATCH) Research Consortium, Winchester, England (presented on behalf of NeuroSpring)

Invited Seminars/Lectures

Fall, 1999 "How to Complete a Dissertation", presented to Psychology Graduate students, WSU, Detroit, MI.

March, 2002 "The Aging Brain", presented to Women's Health Initiative employees and study participants for Brain Awareness Week, Hutzel Hospital, Detroit, MI.

March, 2005 “Detection of Prenatal Exposure to Environmental Toxicants and Herbal Therapies”, presented at Developmental Biology Seminar Series, Children’s Hospital of Michigan, Detroit, MI.

October, 2005 “Detecting Prenatal Exposure to Herbal Supplements”, presented to the Pediatric Prevention Research Center, WSU

February, 2006 “Effects of Pesticides on Neurodevelopment”, presented to the Pediatric Prevention Research Center, WSU

September, 2006 “The Effects of Herbal Supplements on Pregnancy Outcome – Proposed Clinical Study”, presented to the Pediatric Prevention Research Center, WSU

November, 2007 “Prenatal Exposure to Herbal Supplements: A Proposed Animal Model”, presented to the Pediatric Prevention Research Center, WSU

February, 2008 “Gas Chromatography”, presented to the Pediatric Prevention Research Center, WSU

February, 2008 “Gas Chromatography – A Beginner’s Guide”, presented to the Pediatric Fellows, WSU

April, 2008 “Gas Chromatography – Detectors”, presented to the Pediatric Fellows, WSU

April, 2008 “Child Care and Day Care Facility Work Group Strategic Planning” – presented to the Dept. of Pediatrics and the Children’s Hospital of MI Board at the Department Retreat

May, 2011 “IRB: The Basics”, co-presented to the Psychiatry Dept. at Grand Rounds, WSU

July, 2013 “Submitting an Initial, Expedited Review Study & Avoiding Common Submission Errors”, presented at the School of Medicine, WSU

October, 2013 “Submitting an Initial, Full Board Review Study and Avoiding Common Submission Errors”, presented at the Institutional Review Board office, WSU

October, 2013 “Submitting an Initial, Expedited Review Study & Avoiding Common Submission Errors”, presented at the Study Coordinators’ Advisory Committee Meeting, WSU

February, 2014 “Submitting Expedited Initial Protocols”, presented at the Institutional Review Board office, WSU

April, 2014 “Submitting Expedited Initial Protocols”, presented online via the Institutional Review Board office, WSU

August, 2014 “Submitting New Expedited Research to the IRB”, presented at the Institutional Review Board office, WSU

July & September, 2016 “Amendments to IRB Approved Research - Expedited and Full Board Review, WSU

August, 2015 & August, 2016 “Submitting New Research for Expedited Review”, presented at the Institutional Review Board office, WSU

October, 2016 “Expedited and Full Board Initial Submissions”, WSU

March, 2017 “Submitting New Medical Research Protocols to the IRB”, Ob/Gyn Dept., WSU

July, 2017 “Climate Change: Impacts on Health”, Providence Hospital Summer Medical Education program