

**BIOGRAPHICAL SKETCH**

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NAME: DeWitt, Jamie C.

eRA COMMONS USER NAME (credential, e.g., agency login): dewittj

POSITION TITLE: Associate Professor of Pharmacology and Toxicology

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Michigan State University, East Lansing, MI	BS	05/1992	Biology and Environmental Science
Indiana University-Bloomington, Bloomington, IN	PhD	06/2004	Environmental Science and Neural Science
Indiana University-Bloomington, Bloomington, IN	Postdoc	09/2003- 06/2004	Environmental and Ecotoxicology
US EPA/University of North Carolina-Chapel Hill, Research Triangle Park, NC	Postdoc	06/2004- 06/2008	Immunotoxicology

**Positions and Honors****Positions and Employment**

2003-2004 Postdoctoral Research Associate, Environmental Toxicology and Ecotoxicology, IUBloomington  
2004-2008 Postdoctoral Trainee, Immunotoxicology, University of North Carolina/US Environmental  
Protection Agency, Research Triangle Park, NC  
2008-2015 Assistant Professor, Department of Pharmacology and Toxicology, East Carolina University,  
Greenville, NC (ECU)  
2015-present Associate Professor, Department of Pharmacology and Toxicology, ECU  
2018-present Adjunct Associate Professor, Department of Biological Sciences, North Carolina State  
University, Raleigh, NC (NCSSU)

**Professional Memberships**

1997-present Society of Environmental Toxicology & Chemistry  
2005-present Immunotoxicology Specialty Section, Society of Toxicology  
2005-present Society of Toxicology  
2005-present North Carolina Chapter of Society of Toxicology  
2009-present Carolinas Society of Environmental Toxicology and Chemistry

**Professional Service (selected)**

2010-present Editorial Board Member, Journal of Immunotoxicology  
2013-present Editorial Board Member, Journal of Toxicology and Environmental Health Part A  
2013-2014 President, North Carolina Chapter of Society of Toxicology (elected)  
2016-present Associate Editor, Toxicology and Applied Pharmacology  
2016 Series co-Editor (with Sarah Blossom), Molecular and Integrative Toxicology  
2017-present Editorial Board Member, Environmental Health Perspectives  
2018-present President, Immunotoxicology Specialty Section, Society of Toxicology (elected)  
2018-present Editorial Board Member, NeuroToxicology

### **ECU Service (selected)**

2009-present Course Co-Director, Toxicology  
2010-present Course Director, Biometry  
2013-present Institutional Animal Care & Use Committee  
2015-present Brody School of Medicine Promotion & Tenure Committee  
2016-present Course Co-Director, Advanced Toxicology

### **Honors**

2013 Outstanding Young Investigator Award, Immunotoxicology Specialty Section, Society of Toxicology  
2017 Faculty Mentor Award, ECU Honors College

### **Contributions to Science**

#### **1. PFOA immunotoxicity.**

- a. **DeWitt JC**, Copeland CB, Strynar MJ, Luebke RW. 2008. Perfluorooctanoic acid-induced immunomodulation in adult C57BL/6J or C57BL/6 female mice. *Environmental Health Perspectives*. 116:644-650.
- b. **DeWitt JC**, Copeland CB, Luebke RW. 2009. Suppression of humoral immunity by perfluorooctanoic acid is independent of elevated serum corticosterone concentration in mice. *Toxicological Sciences*. 109:106-112.
- c. **DeWitt JC**, Shnyra A, Badr MZ, Loveless SE, Hoban D, Frame SR, Cunard R, Anderson SE, Meade BJ, Peden-Adams MM, Luebke RW, Luster MI. 2009. Immunotoxicity of perfluorooctanoic acid and perfluorooctane sulfonate and the role of peroxisome proliferator activated receptor alpha. *Critical Reviews in Toxicology* 39:76-94.
- d. **DeWitt JC**, Williams W, Creech NJ, RW Luebke. 2016. Suppression of antigen-specific antibody responses in mice exposed to perfluorooctanoic acid: Role of PPAR $\alpha$  and B cell targeting. *Journal of Immunotoxicology*. 16:1-8.

#### **2. PFAS immunotoxicity.**

- a. **DeWitt J**, Peden-Adams M, Keller J, Germolec D. 2012. The immunotoxicity of perfluorinated compounds: Recent developments. *Toxicologic Pathology*, 40:300-311.
- b. Corsini E, Luebke RW, Germolec DR, **DeWitt JC**. 2014. Perfluorinated compounds: emerging POPs with potential immunotoxicity. *Toxicology Letters*, 230:263-270.
- c. **DeWitt JC**, Peden-Adams MM, Keil DE. 2015. Immunotoxic effects of perfluoroalkylated compounds: Mechanisms of action. In: *Molecular Immunotoxicology* (Corsini E and van Loveren H, eds). Wiley-VCH GmbH & Co., Weinheim.
- d. **DeWitt JC**. (ed). 2015. *Toxicity of Perfluoroalkyl and Polyfluoroalkyl Substances*. Springer Science + Business Media, LLC.

#### **3. PFAS toxicity.**

- a. Wambaugh JF, Setzer W, Pitruzzello AM, Liu J, Reif D, Kleinstreuer N, Ching N, Wang Y, Sipes N, Martin M, Das K, **DeWitt JC**, Strynar M, Judson R, Houck K, and Lau C. 2013. Dosimetric anchoring of in vivo and in vitro studies for perfluorooctanoate and perfluorooctanesulfonate. *Toxicological Sciences*. 136:308-327.
- b. Jiang Q, Ma W, Wu J, Wingard CJ, **DeWitt JC**. 2016. Perfluorooctanoic acid-induced toxicity in primary cultures of chicken embryo cardiomyocytes. *Environmental Toxicology*. 31:1580-1590.
- c. Jusko TA, Oktapoda M, Murinová LP, Babjaková J, Verner M-A, **DeWitt JC**, Babinská, Thevenet-Morrison K, Conka K, Drobná B, Thurston SW, Lawrence BP, Dozier AM, Jarvinene-Seppo KM, Patayová H, Trnovec T, Legler J, Hertz-Picciotto I, Lamoree MH. 2016. Demographic, reproductive, and dietary determinants of perfluorooctane sulfonic (PFOS) and perfluorooctanoic acid (PFOA) concentrations in human colostrum. *Environmental Science and Technology*. 50:7152-7162.
- d. Wang Z, **DeWitt JC**, Higgins CP, Cousins IT. 2017. A never-ending story of per- and polyfluoroalkyl substances (PFASs)? *Environmental Science & Technology*. 51:2508-2518.