NC STATE UNIVERSITY

Comparative Medicine Institute

Stacy Schkoda

Graduate Research Assistant

B.S. California State University, Fullerton

Mentor: Seth Kullman
Address:
Toxicology Building
850 Main Campus Drive
Raleigh, NC 27606-5205

Phone: (714) 350-7751
Email: sschkod@ncsu.edu

Multipotency Regulation in Mesenchymal Stem Cells

Research emphasis:

Current research focuses on understanding how environmental contaminants influence osteogenic and adipogenic pathways in human mesenchymal stem cells (hMSC) and characterizing related outcomes in aquatic vertebrate models. I am particularly interested in toxicological disruption of regulatory networks which control stem cell fate and patterning outcomes of exposure.

Applications:

- Mesenchymal stem cell culture
- Nuclear receptors
- Zebrafish and medaka models

Research Strengths:

- Skeletal toxicology
- Stem cell biology
- Transgenic models

Publications and Abstracts: (limit 4)

Schkoda, S., Pecoraro, A., Kullman, S. (November 2018) Exploring the molecular signature of aryl organophosphate esters in osteogenic differentiation of human mesenchymal stem cells. Superfund Annual Meeting. Sacramento, CA. Poster Presentation.

Schkoda, S., Struckhoff, G., Forsgren, K. Hop Topic: The Effects of Genistein, a Phytoestrogen in Beer Brewery Wastewater, on the Reproductive Physiology of Zebrafish *(Danio rerio)* (April 2017) 110th Annual Southern California Academy of Sciences Meting. Santa Monica, California. Poster Presentation.

Schkoda, S., Geier, M., Tanguay, R. (March 2017) Using zebrafish as a model to understand the developmental toxicity of PAHs. Society of Toxicology Annual Meeting. Baltimore, Maryland. Poster Presentation.