



*ONE WORLD,*

*ONE MEDICINE,*

*ONE HEALTH*

# One Health Intellectual Exchange

***Weekly Discussions / Course: Philosophy to Practical Integration of Human, Animal and Environmental Health***

A weekly discussion series, sponsored by the **North Carolina One Health Collaborative** within the NCBC IEG Program to enhance collaborations between physicians, veterinarians, researchers and other local/global/environmental health professionals by increasing public awareness of the interconnectedness of people, animals and the environment.

(Available each spring for credit if desired)

**7th 2014 Weekly Session - Tuesday, February 25th**  
5:30 – 7:30 p.m.

**Microbial source tracking to evaluate links between human, animal and environmental health**

**Jill Stewart, PhD**

Assistant Professor

Department of Environmental Sciences & Engineering  
University of North Carolina, Chapel Hill  
Deputy Director, UNC Galapagos Initiative

Meets Tuesdays, 5:30 – 7:30 p.m. at the North Carolina Biotechnology Center  
15 T.W. Alexander Drive Research Triangle Park, NC 27709  
Directions: [www.ncbiotech.org/directions](http://www.ncbiotech.org/directions)

For more information on the course option, suggestions, or ideas contact NC OHC: [nconehealth@gmail.com](mailto:nconehealth@gmail.com)

For Speaker Cancellation notices and additional background on One Health and the NC OHC:  
<http://nconehealthcollaborative.weebly.com/index.htm>      <http://onehealtheducation.blogspot.com/>





**Jill Stewart** is an Assistant Professor in the Department of Environmental Sciences and Engineering at the University of North Carolina. Prior to this position, Dr. Stewart served as Principal Investigator at a NOAA Center of Excellence for Oceans and Human Health in Charleston, SC. Dr. Stewart is developing novel techniques to detect and track pathogens in water. She is also interested in evaluating impacts of non-point source pollution, and in evaluating the manner in which human activities such as development and stormwater management affect distribution of microbial contaminants.

Current research projects include evaluation of water quality associated with (1) land application of waste products and (2) urbanization on a watershed-scale. Overall, these activities are leading to a greater understanding of how environmental conditions can affect human health, and how humans themselves influence this process.

#### **Recommended Readings:**

Stewart, Jill R., et al. "Recommendations following a multi-laboratory comparison of microbial source tracking methods." *Water research* 47.18 (2013): 6829-6838.

Rowny, Jakob G., and Jill R. Stewart. "Characterization of nonpoint source microbial contamination in an urbanizing watershed serving as a municipal water supply." *Water research* 46.18 (2012): 6143-6153.

Gentry-Shields, Jennifer, Jakob G. Rowny, and Jill R. Stewart. "HuBac and nifH source tracking markers display a relationship to land use but not rainfall." *Water research* 46.18 (2012): 6163-6174.

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