



Jill Stewart



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Title:

Research emphasis:

Jill Stewart is developing novel tools to detect and track pathogens in the environment, and she applies these tools to evaluate links between human and environmental health. Current research projects include (1) evaluation of water quality as a function of land use change and storm events and (2) evaluating the evolution and dissemination of antibiotic-resistant bacteria. Overall, this research is leading to a greater understanding of how environmental conditions can affect human health, and how humans themselves influence this process.

Application :

- Water quality modeling and forecasting
- Microbial source tracking tools and applications
- Environmental exposure assessment

Collaboration potential:

- Water quality
- Alternative indicators
- Antibiotic resistance
- Environmental epidemiology
- Global health

Selected publications:

Overbey, KN, SM Hatcher and JR Stewart (2015). Water quality and antibiotic resistance at beaches of the Galápagos Islands. *Frontiers in Environmental Health*. 3(64). doi: 10.3389/fenvs.2015.00064.

Nadimpalli, M, JI Rinsky, S Wing, D Hall, J Stewart, J Larsen, KE Nachman, DC Love, E Pierce, N Pisanic, J Strelitz, L Harduar-Morano, CD Heaney (2015). Persistence of livestock-associated antibiotic-resistant *Staphylococcus aureus* among industrial hog operation workers in North Carolina over 14 days. *Occupational and Environmental Medicine*. 72(2):90-99. doi: 10.1136/oemed-2014-102095.

Stewart, JR, AB Boehm, EA Dubinsky, T-T Fong, KD Goodwin, JF Griffith, RT Noble, OC Shanks, V Kannappan, and SB Weisberg (2013). Recommendations following a multi-laboratory comparison of microbial source tracking methods. *Water Research*. 47(18): 6829-6838. doi: 10.1016/j.watres.2013.04.063.