

# Using Microfluidic Technologies to Overcome Challenges in Non-Model Organism Research

Katy Richards-Hrdlicka, Ph.D.

Field Applications Scientist, Fluidigm Corporation

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Population genetics, genotyping by sequencing, phylogenetics, pathogen detection, metagenomics from environmental samples, and high-throughput qPCR for functional genomics require numerous genomic loci, but finding and accessing enough, especially from precious sample types and non-model organisms, poses important challenges. Using Fluidigm's microfluidic technologies in your research provides many advantages, such as reducing reaction sizes to nanoliter volumes, and interrogating more than 96 SNP loci or genes or targeted sequences in a single run from a single, small aliquot of your sample. A single run completes within hours, allowing you to finally acquire enough genetic loci from your limited sample input from non-model organisms. Assays can also be customized to target short amplicons, making it possible to genotype degraded sample types (including formalin-fixed samples, non-invasive fecal samples, fish scales, and epidermal swabs). Stop by to hear and learn how microfluidics can help you achieve data density from precious sample inputs and fuel your non-model organism life science research.

**Sponsored by: David (Andy) Baltzegar**  
**DEPARTMENT: Genomics Sciences Laboratory**

*Lunch to be provided. Please RSVP to [Olav.Herrera@fluidigm.com](mailto:Olav.Herrera@fluidigm.com).*

