

POST-DOCTORAL ADVERTISEMENT

A post-doctoral position is available in the laboratory of Lawrence David at Duke University (www.ladlab.org).

About the lab: Our lab is interested in devising tools and techniques for controlling human-associated bacterial communities. We take an interdisciplinary approach towards this goal, developing both experimental systems and computational models for manipulating human microbiota. Lab members hail from a range of disciplines, including bioinformatics, genetics, ecology, engineering, medicine, and microbiology. Our lab is centrally located in Duke's Center for Interdisciplinary Engineering, Medicine and Applied Sciences, a new building nearby to Duke's Schools of Engineering, Medicine, and Arts & Science.

About the position: We are looking for a postdoctoral associate to help develop high-throughput microfluidic techniques for investigating bacterial interactions and ecology. The associate will use findings from these tools to design strategies for engineering bacterial communities within hosts. We encourage applications from candidates with enthusiasm and skill in any of the fields listed below: computer science/computational biology, ecology, engineering, math/physics, or micro/molecular/synthetic biology. Expertise in flow cytometry, microfluidics and/or culture of bacterial communities is particularly valued.

Timing: The start date is flexible, but we would like to fill the position as soon as possible. The position is expected to continue for multiple years contingent on satisfactory performance.

Applying: To apply, please send a brief letter of research interests, CV, contact information for three references, and a publication representative of your work to: lawrence.david@duke.edu. Applications will be read until the position is filled. Informal inquiries are welcome.

Selected publications:

- LA David, *et al.* Diet rapidly and reproducibly alters the gut microbiome. Nature, 2014.
- LA David, *et al.* Host lifestyle affects human microbiota on daily timescales. Genome Biology, 2014.
- LA David, *et al.* Gut microbial succession follows acute secretory diarrhea in humans. mBio, 2015.

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