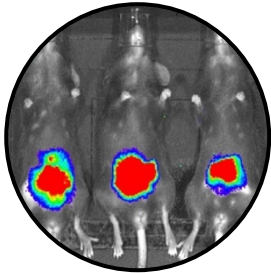
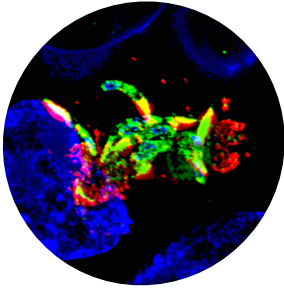
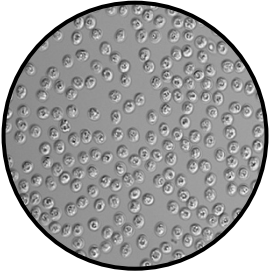


# Ph.D and postdoctoral positions



The Vinayak laboratory at the University of Illinois Urbana-Champaign (UIUC), USA is recruiting two graduate students and a postdoctoral research fellow.

Our research is focused on the protozoan parasite *Cryptosporidium parvum*, the second leading cause after rotavirus of diarrheal illness in young children, and an important veterinary parasite that causes neonatal diarrhea in calves. We have pioneered molecular genetics for *C. parvum* (Vinayak et al. 2015 *Nature* 523:477) to understand parasite biology, developed an animal model to test the efficacy of anti-cryptosporidial drugs (Manjunatha, Vinayak et al. 2017, *Nature* 546:376), and identified and genetically validated new drug targets in this parasite (Vinayak et al. *Science Translational Medicine* 2020, eaba8412).

Projects will involve applying cutting-edge technologies such as CRISPR/Cas9 genome editing, super-resolution microscopy and animal infection models to discover the molecular mechanisms regulating *Cryptosporidium* proliferation and development, and validation of drug targets.

Highly motivated candidates with interest/experience in microbiology, genetics, molecular and cellular biology, and parasitology are encouraged to apply. Please e-mail a cover letter, curriculum vitae and contact information of 2-3 references to Dr. Sumiti Vinayak, [sumiti@illinois.edu](mailto:sumiti@illinois.edu)

For details on the Ph.D application process and requirements please visit:

<https://vetmed.illinois.edu/college-organization/pathobiology/graduate-study/>



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