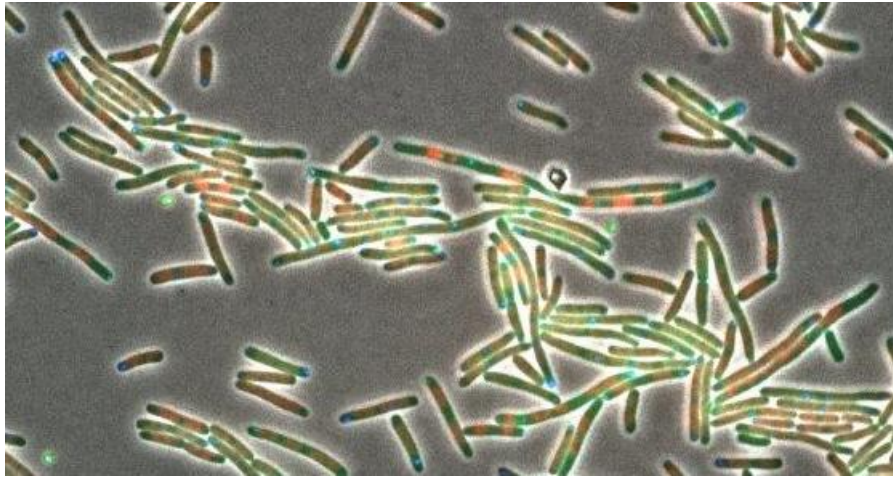


Master/Doctorate positions in Bershtein's Lab

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Molecular and Experimental Evolution of Microbes



We use *bioinformatics, microbial genetics, in vitro biophysical and biochemical molecular characterization, systems-level analysis, and high-throughput experimental evolution* to understand the role of Horizontal Gene Transfer (HGT) in microbial evolution.

Tecan Evo Robot for laboratory evolution



Specific projects:

1. Understanding the role of chaperones and proteases in mediating the accommodation of horizontally transferred genes.
2. Understanding the molecular mechanisms that govern the integration of the newly acquired proteins within cellular networks.
3. Characterizing the role of HGT in evolution of antibiotic resistance