



Claire Reichardt

Taylor Award
Ph.D. Student, Microbiology
First Year ARCS Scholar

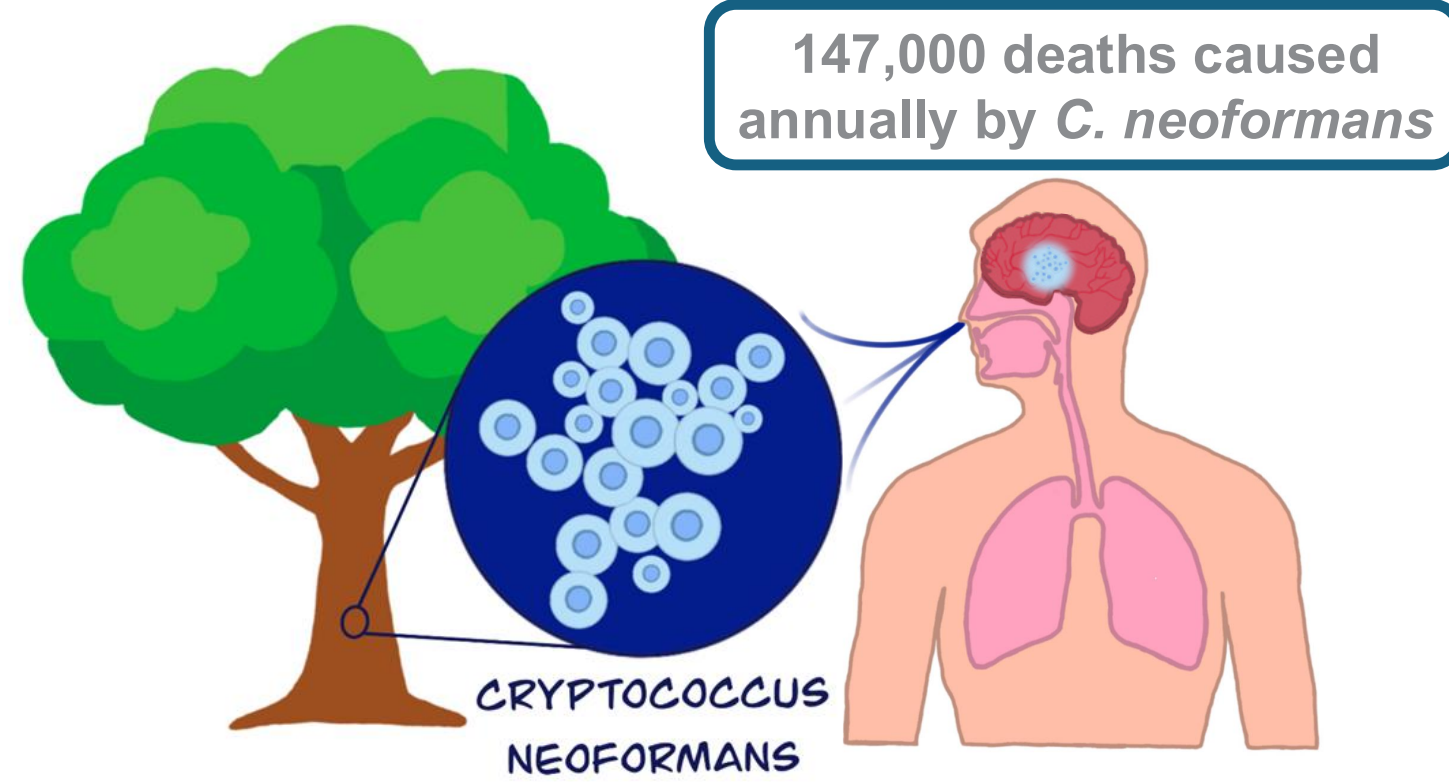


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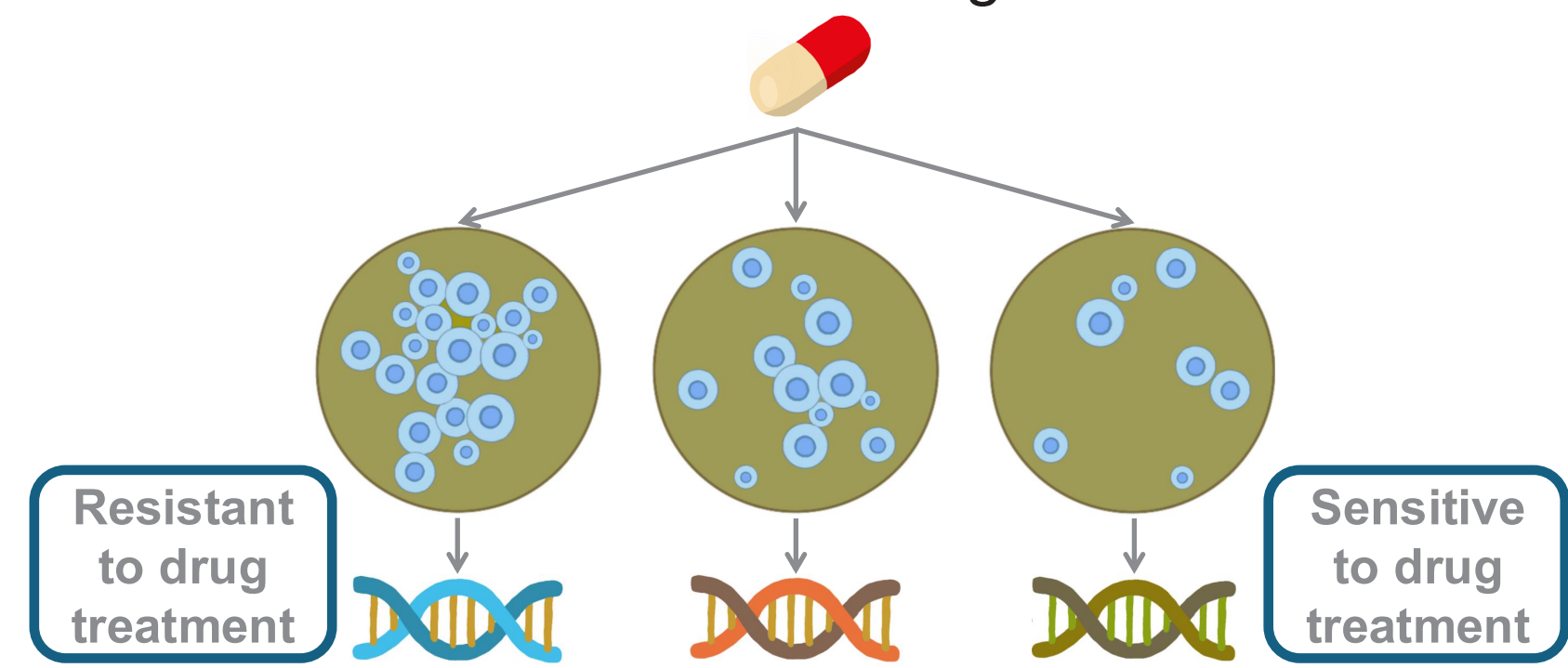
Uncovering the consequences of genomic content changes on drug resistance in a human fungal pathogen.

My research aims to understand the human fungal pathogen *C. neoformans* as a population, through genetic analysis of 375 unique *C. neoformans* strains. I aim to define the genetic diversity of *C. neoformans* and understand how gene content relates to antifungal drug resistance.

Cryptococcus neoformans commonly lives in the environment



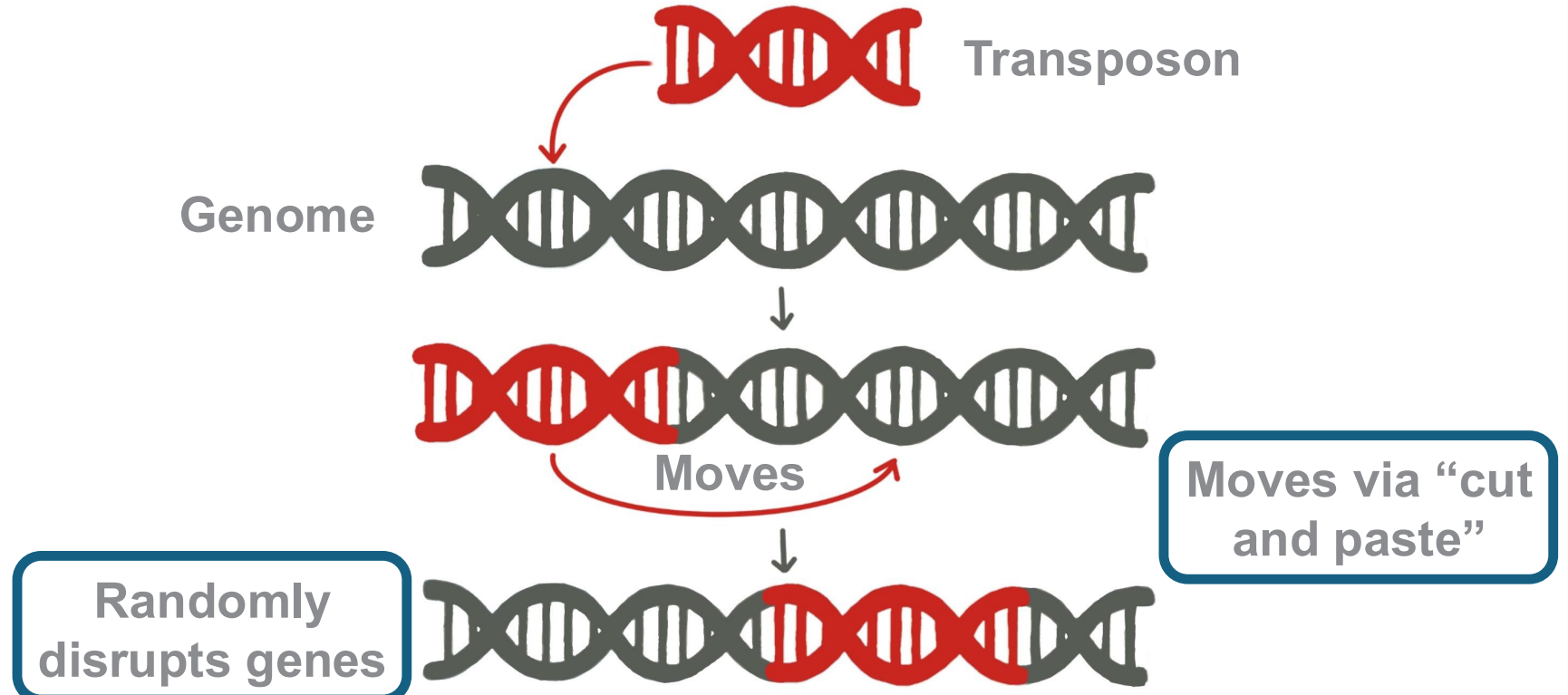
Different genetic variants have different resistance levels to drug treatment



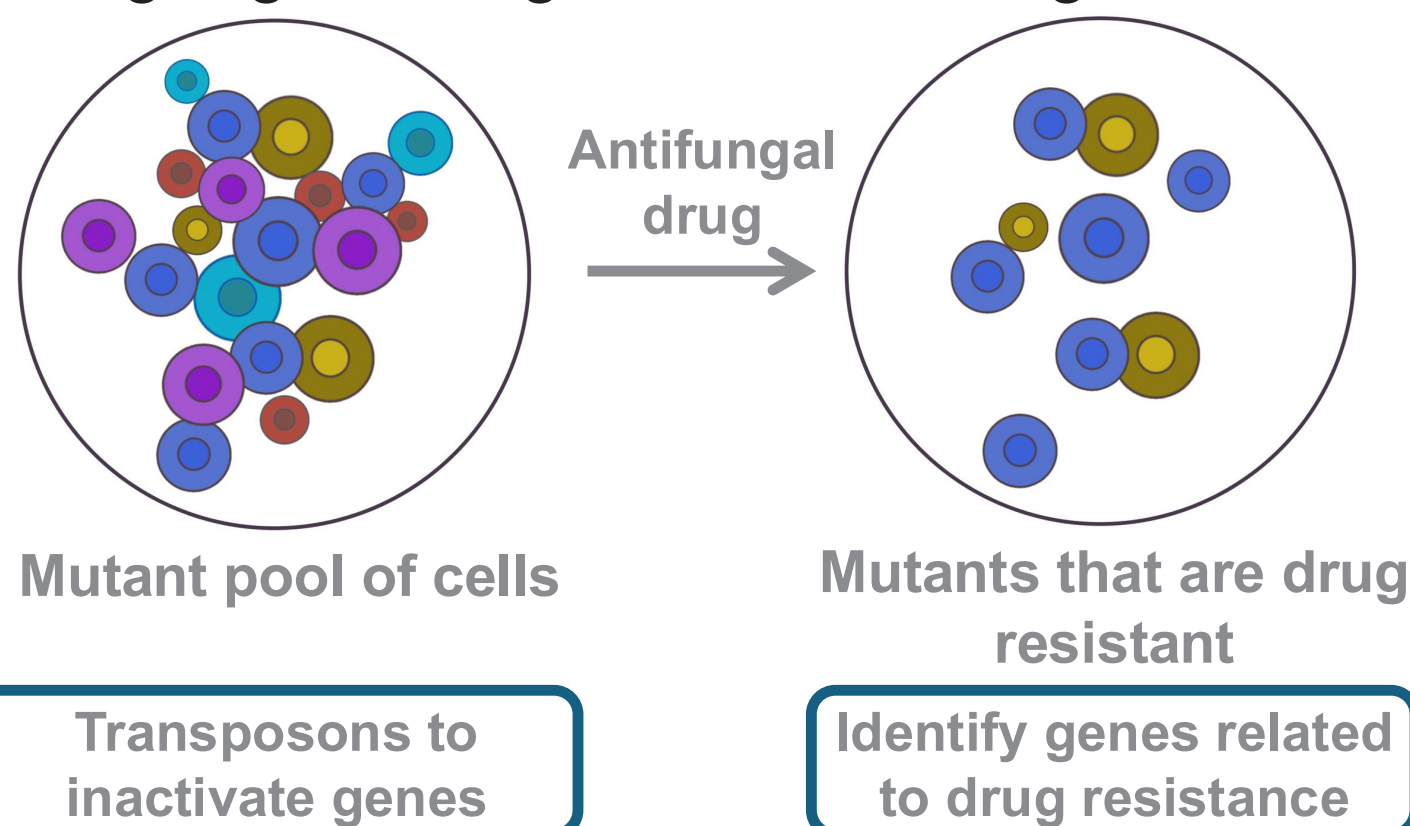
Analyzing all genomic information of *C. neoformans* isolates



Using transposons to disrupt genes and create a library



Testing regions of genomes for drug resistance



Applications of my research in treatment of infected patients

