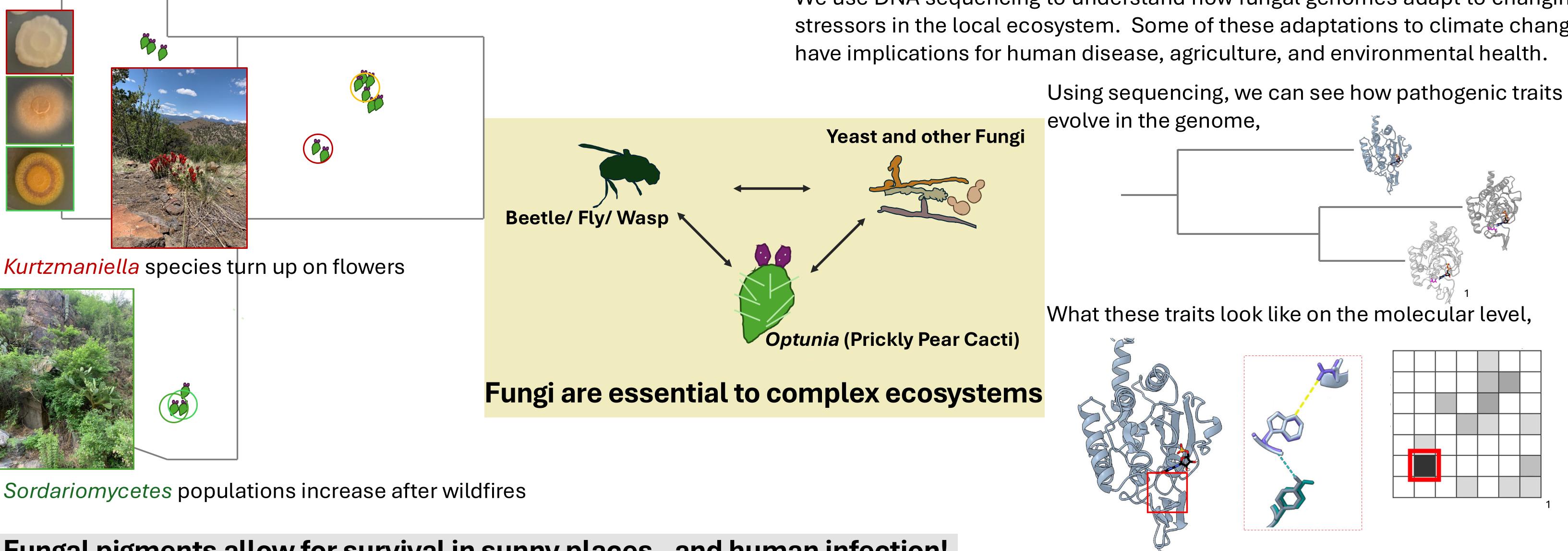
Low hanging fruit: What wild yeast collected from Colorado cacti tell us about climate change and human health

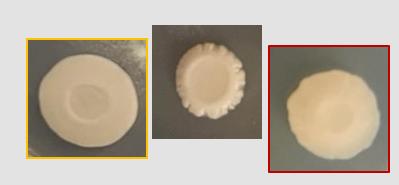
Alya Hussain and Michael McMurray Department of Cell and Developmental Biology, University of Colorado Anschutz Medical Campus

Prickly pear cacti and their fungal microbiome populate diverse climates



Fungal pigments allow for survival in sunny places.. and human infection!

Protein structures involved in cell division, pigment, and cell walls help fungi adapt to stress.





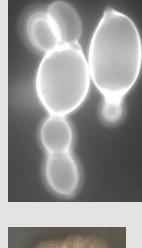


least UV tolerant

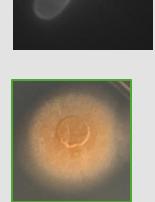
What can we learn from wild fungal DNA?

We use DNA sequencing to understand how fungal genomes adapt to changing stressors in the local ecosystem. Some of these adaptations to climate change have implications for human disease, agriculture, and environmental health.

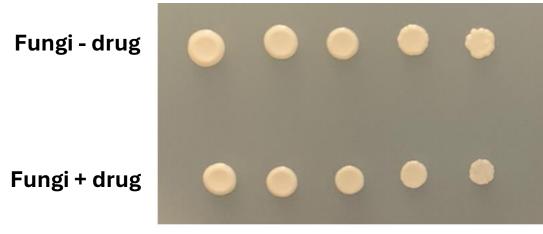


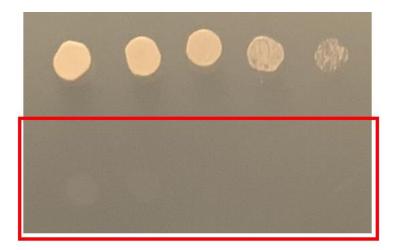






and how we can design drugs to target pathogens.







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