The alchemist honey bee: Uncovering the floral resources that create liquid gold



GROW NEXT GEN

The honey-making process **Nectar + vomit + invertase + wing power**



youtube.com/watch?v=nZlEjDLJCmg



Honey bees can travel about six miles searching for blooming plants!

DNA of the nectar source is found in honey





DNA sequencing analysis helps identify floral resources of honey bees









Goals

- Demonstrate the broad applicability of DNA analysis
- Identify floral resources of bee colonies through a bioinformatics platform: DNA Subway
- Discuss how the results may help the researcher and beekeeper

Scenarios



Commercial beekeeper: Marty McFly, marketing manager at Awesome Bee Honey Farms Wildlife biologist: Dr. Ellie Sattler, conservation biologist at the Ohio State University

Getting started

- DNA Subway website: dnasubway.cyverse.org
- Honey sequences: grownextgen.org/go/honey

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