

A walk on the wild side!

Brewers have used “wild” microbes for a long time!

- Flowers (and fruit) are a great source of wild yeast!
- A window into the world of aromas and flavors of flowers and pollinators!
- Need to make sure we’re getting the good ones though

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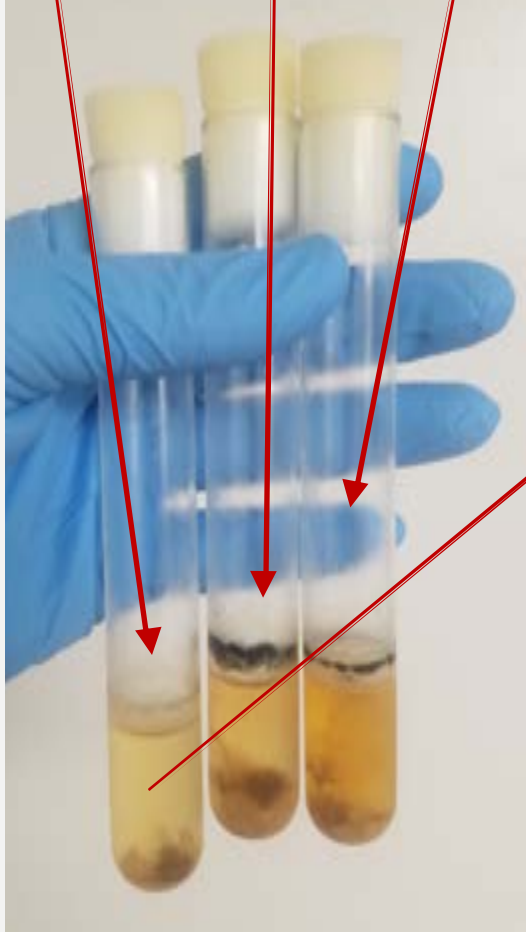


Beer is inherently antimicrobial

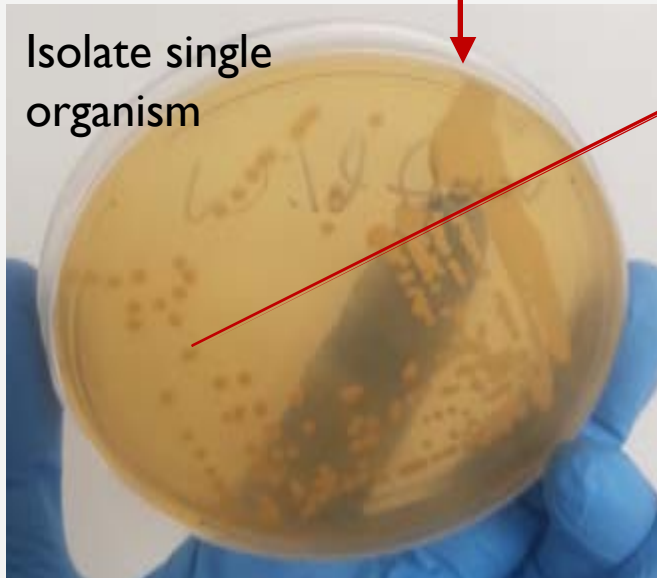
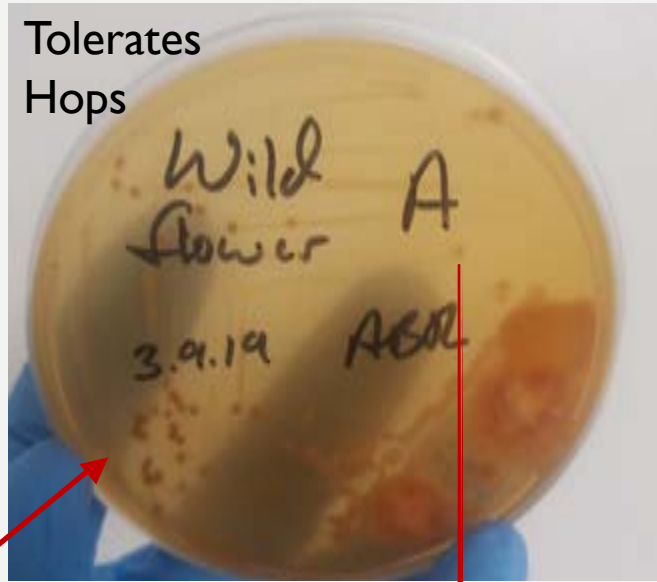
- Hops are antimicrobial
 - (Oh, and you may have heard about their flavor too)
- Alcohol is antimicrobial
- We can use this to help us weed out undesirable microbes!

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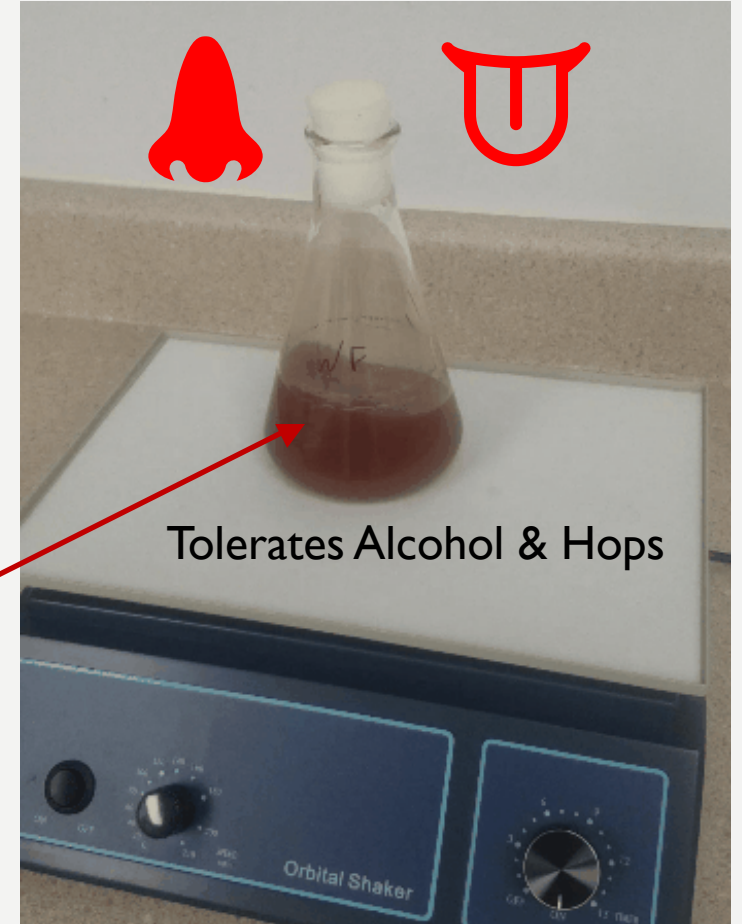




Eats Maltose
Not Mold



Only fermentative yeast!



Tolerates Alcohol & Hops

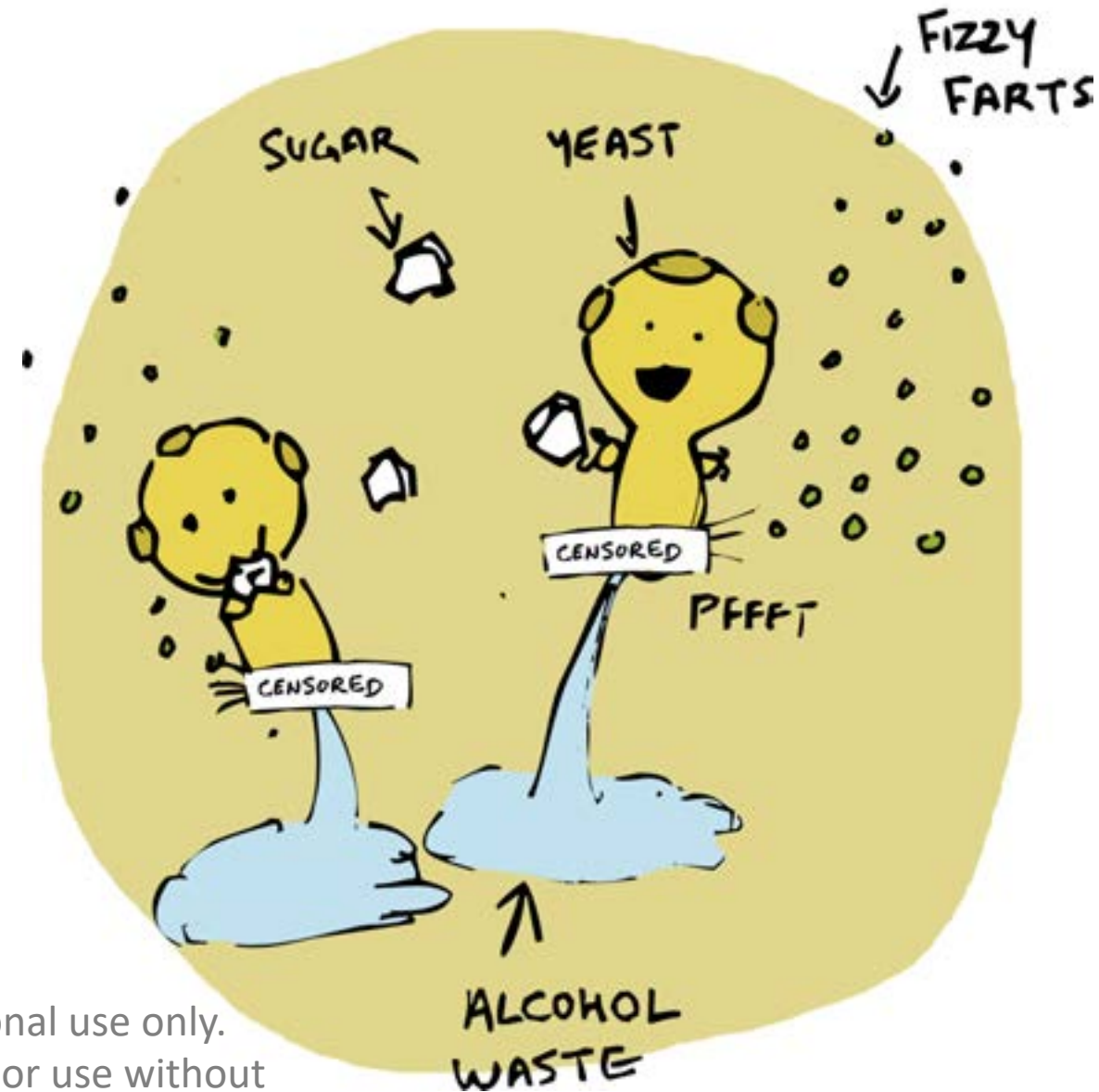
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Yeast: tiny gremlins that get you drunk

- Flower Nectar = Glucose + Fructose + Sucrose
- Wine = Grapes = Glucose + Fructose
- Beer = Malt = Maltose
- Sugar + Yeast = $2 \text{ EtOH} + 2 \text{ CO}_2 = \text{BEER!}$

Maltose \neq Nectar

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Credit: <http://www.sketchyscience.com>

Sloppy Science: Why does alcohol get you drunk?

BREWING WITH FLORAL YEAST

- Isolated yeast from Spanish Needles
 - Needs a better food source than maltose
- Add honey!
 - It's dried nectar!
 - Glucose & Fructose
- Wild yeast ferments & adds flavor
- Add brewer's yeast later to finish fermenting the maltose



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Bidens alba (Spanish needles) are a very important nectar source in Florida!

Florida Wildflower Ale

- Refreshing and light
- Blonde ale base
- Florida wildflower honey
- Bright floral aroma with hints of an earthy wild character
- Citrusy character from Loral hops



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THE YEAST HAVE SOMETHING TO SAY BEFORE YOU GO!

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Thank you for supporting the Florida Wildflower Foundation!

