





Biome Makers

We are geneticists, microbiologists, software engineers, bioinformaticians, communication and sales experts, and real winemakers.

we are...

20 team members 30 years old average

40%

PhD level



... in US and Europe

Biome Makers: Achievements



World Class Genomic Accelerator



Tech Accelerator





Winnovation Awards 2017 (San Francisco, CA)



AgFunder 2016 (San Francisco, CA)





Pyme Innovadora 2017 (Spain)



Semi-Finalist InnoStars (China)







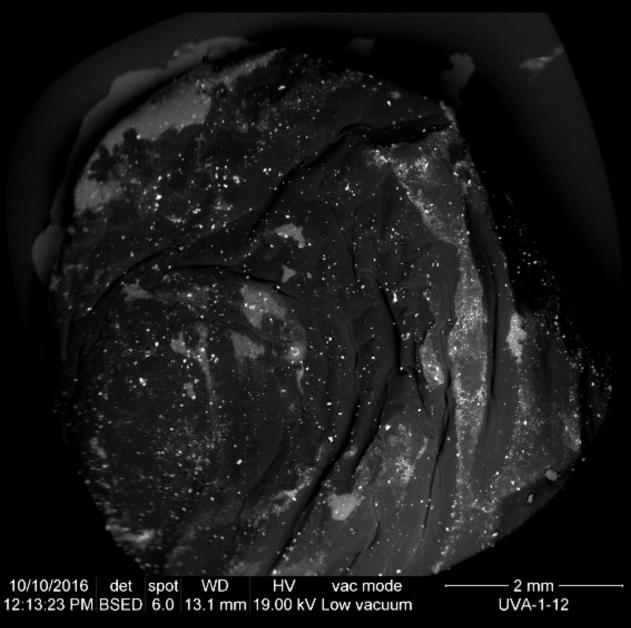
Our AgTech proposal

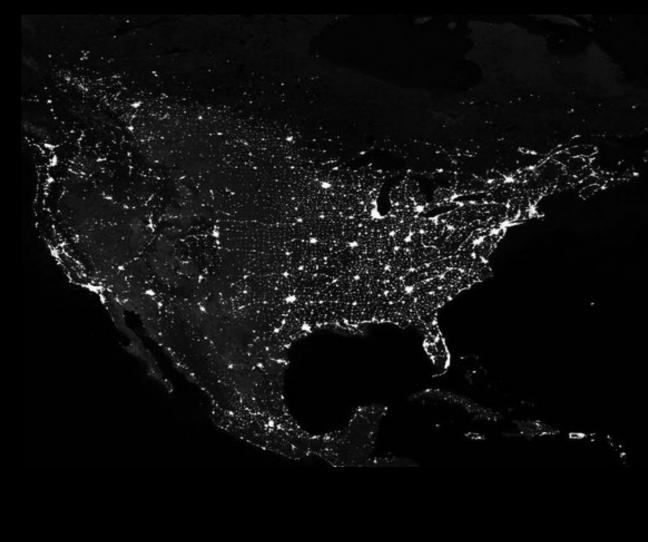
Microbial discovery Welcoming future agriculture













The context

How much does it cost to solve AgProblems in the soil?

\$23.5B /year

Nutrition complements

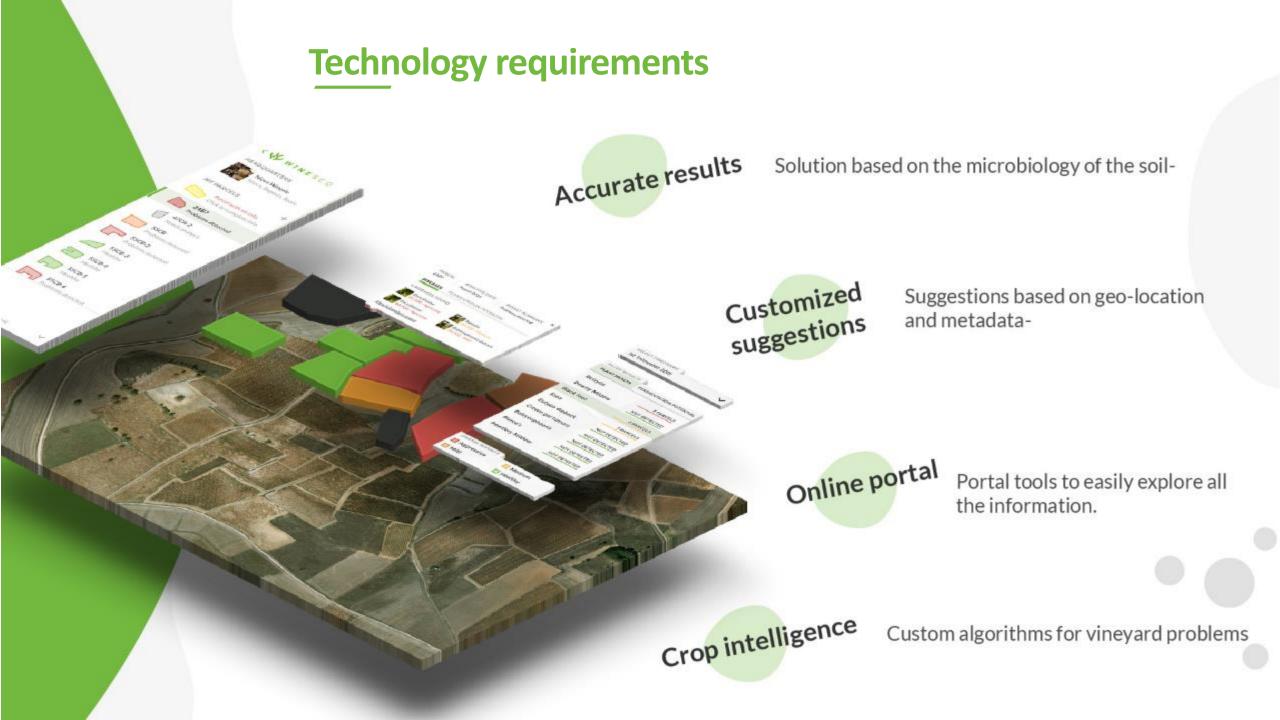
\$15.2B /year

\$15.2B /year

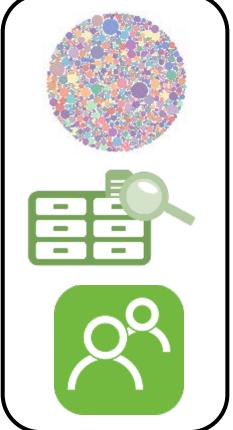


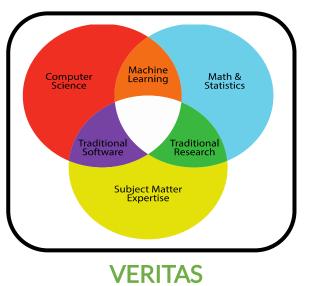
Even after the treatments

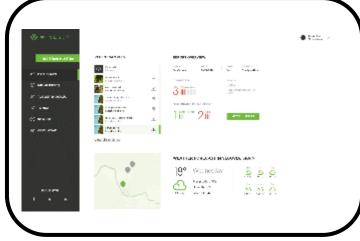
20-40% crop value is lost due to diseases









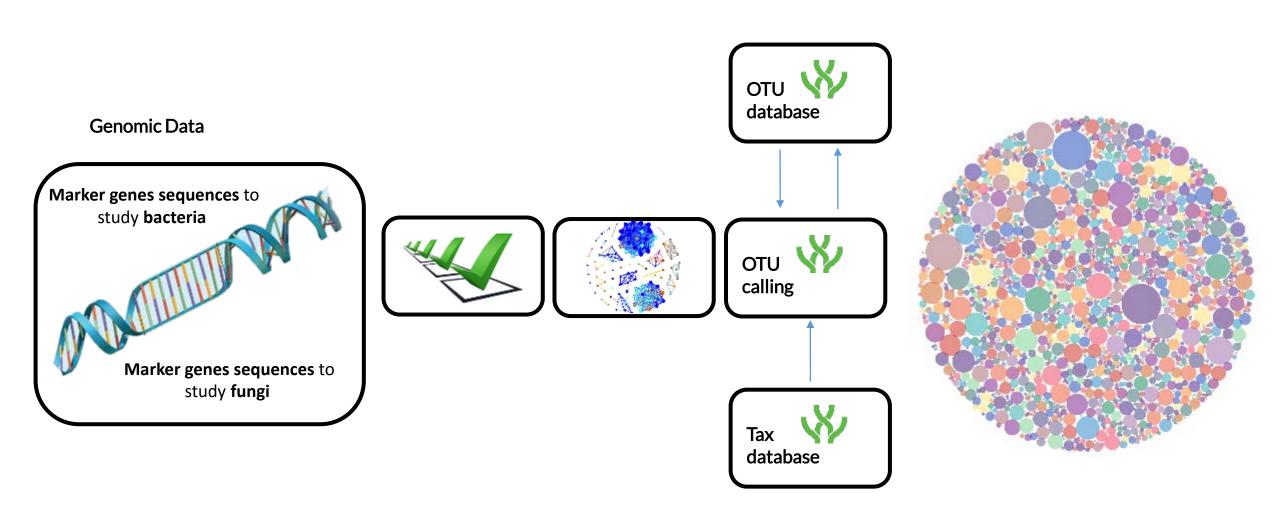


WineSeq Portal





Ξ



Bioinformatics: using DNA to profile the microbiome



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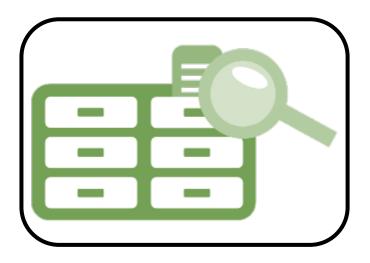
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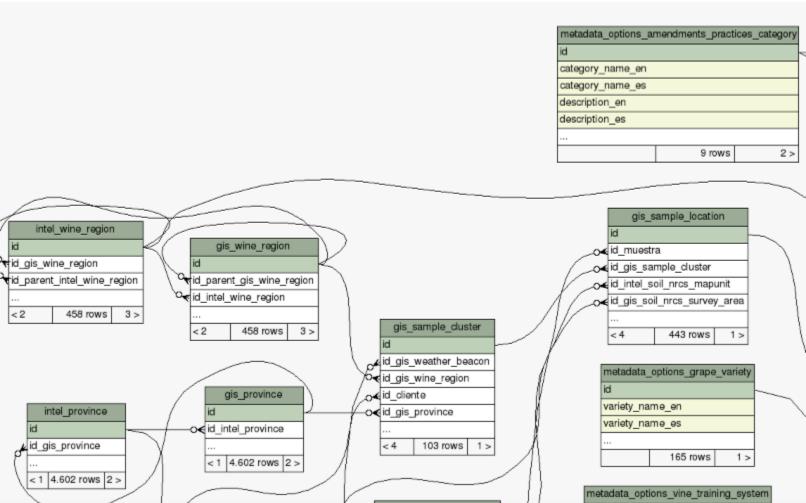
WineSeq Technology – metadata database

Ε

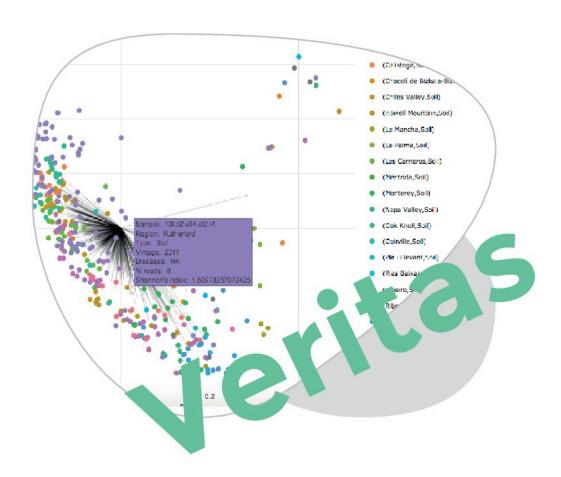
119 Boxes







Our internal intelligence platform

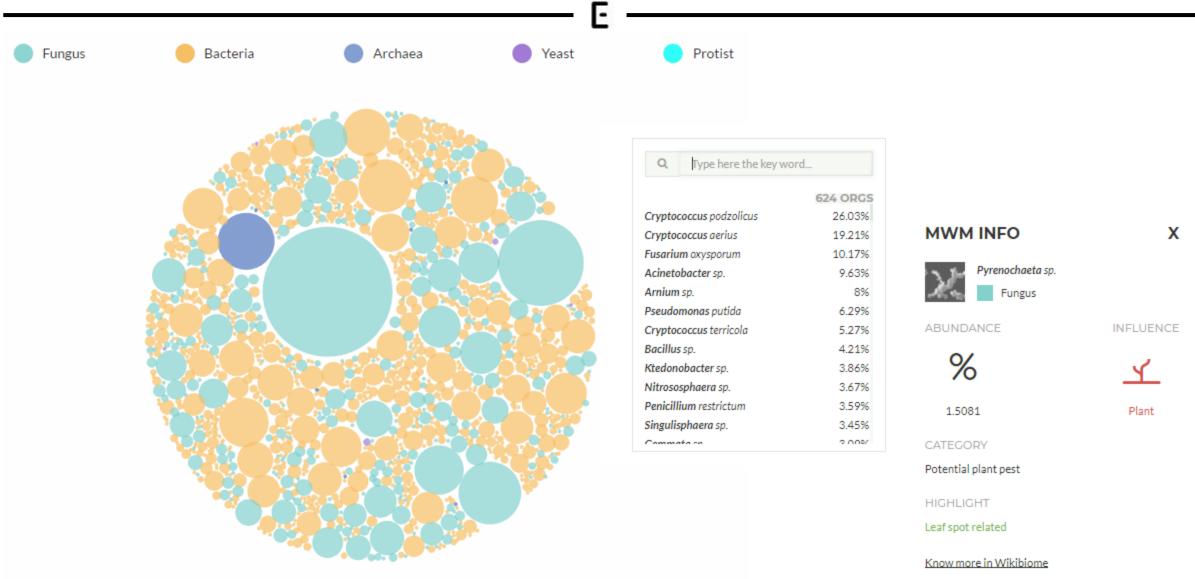


We take advantage of big data tools to:

- Understand global trends in plant diseases distribution and virulence
- Certificate sustainable farming practices
- Drive microbial discovery projects
- Create Biobanks of microbial resources

Understanding the Microbiome





4INFLUENCES OF TERROIR

CLIMATE









COLD

Precipitaciónón

SOIL

.....





Estructura del suelo

TERRAIN

.....

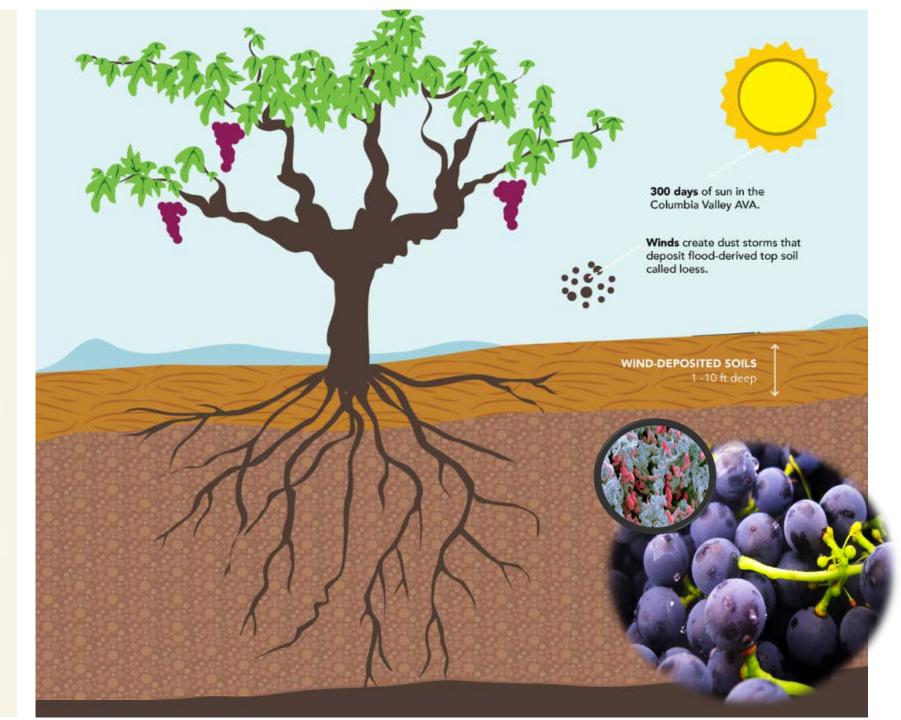




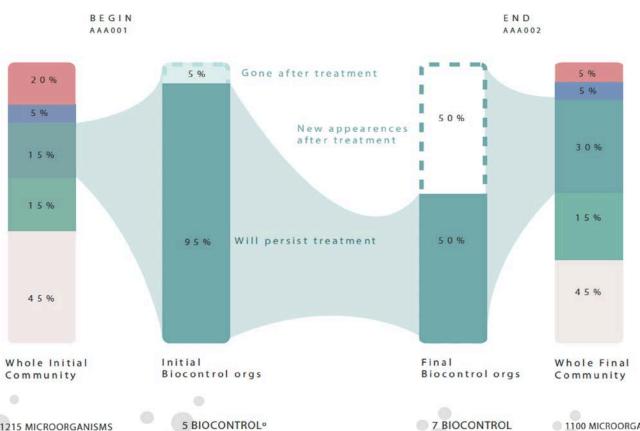
Altitud

TRADITION





SUSTAINABLE MICROBIAL



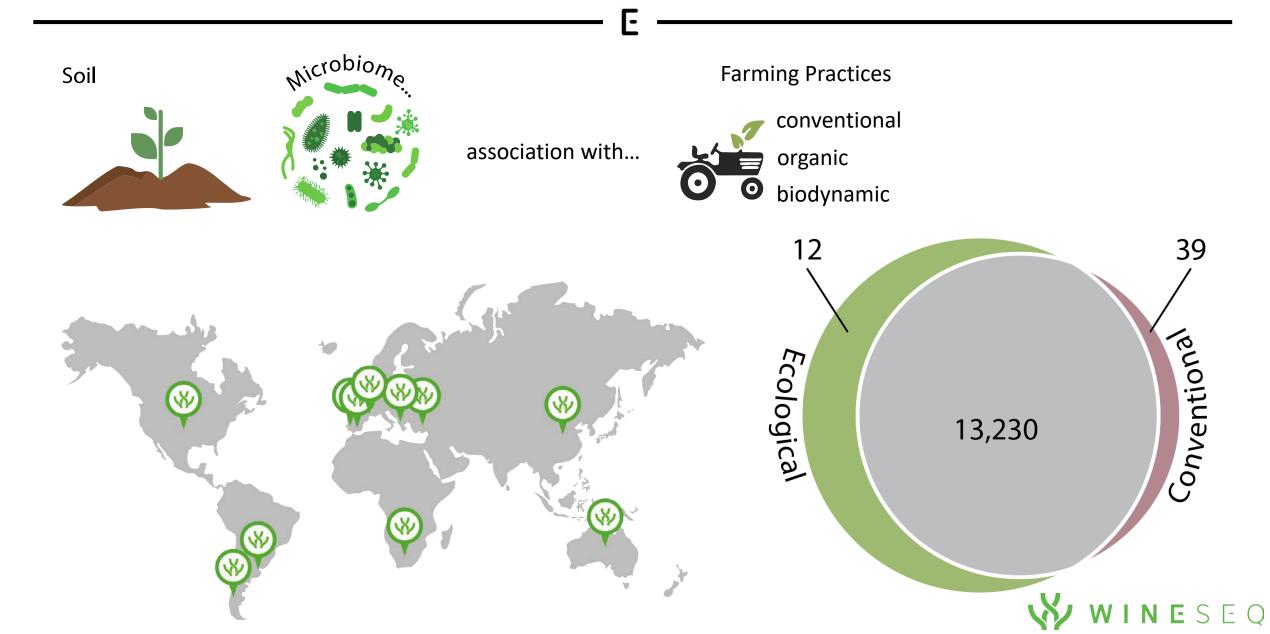


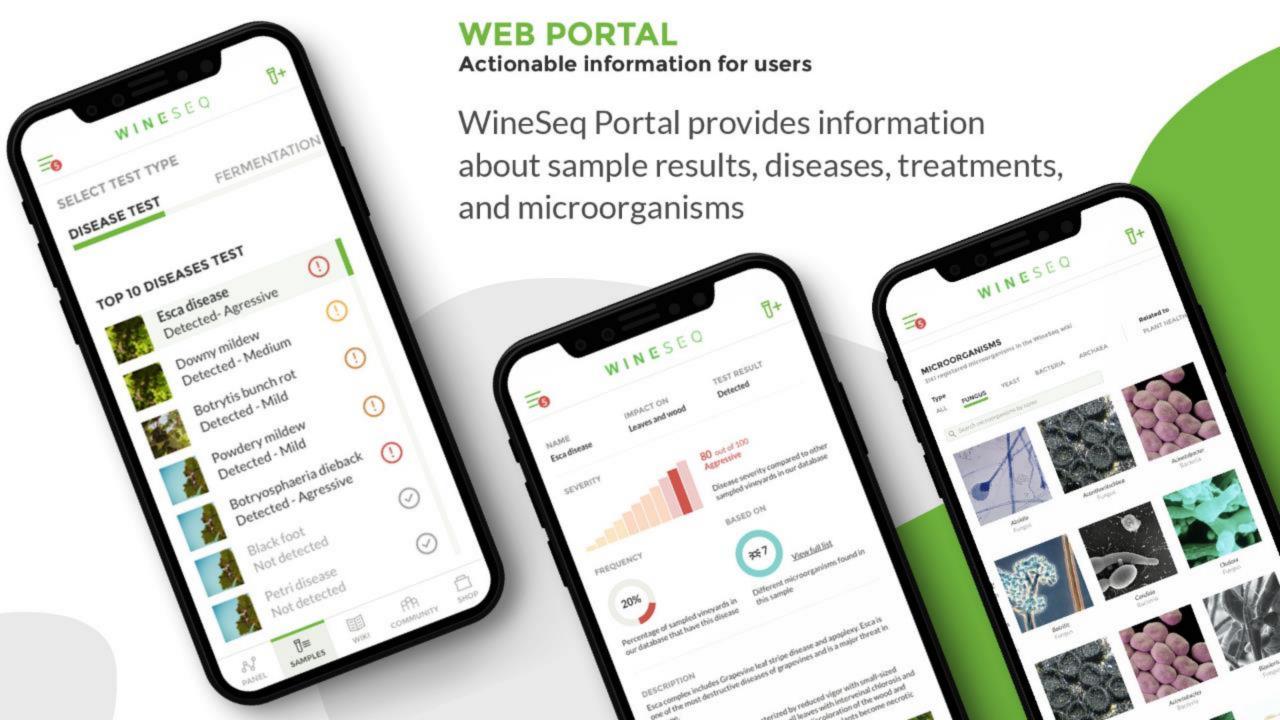
Biofertilizer MetaCrop Biome X respects the native microbial community, avoid most of crop pathogens and improve Biocontrol and Nitrogen Fixation Species.



- PATHOGENS
- NITROGEN FIXATORS
- BIOCONTROL
- PLANT GROWTH PROMOTERS

Soil as BioMarker of Agriculte Practices





Applying smart discovery





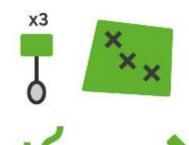


WineSeq is a Methodology: Sample collection

E

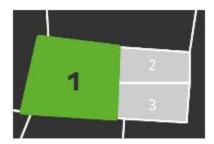


DOWNLOAD THE APP DESCARGA LA APP



-30cm (12in)-

I5-10cm (2-4in) COLLECT THE SAMPLE RECOGE LA MUESTRA



CHOOSE A PLOT SELECCIONA UNA PARCELA



SEND THE TUBE BACK ENVÍANOS EL TUBO



TAKE A PICTURE HAZ UNA FOTO



Crowding knowledge - Open Information

Ξ

GRAPE VARIETIES



298 grape varieties registered in Wikibiome

FEATURED GRAPE VARIETY

Verdejo White

Very sensitive to powdery mildew. Moderately to botrytis.

Medium-alcohol content wines, greenish-yellow in hue, very aromatic, with aromas of bitter almonds. Medium to high acidity wines with body but with a



Learn more



VINE DISEASES



61 vine diseases registered in Wikibiome

FEATURED DISEASE

Pierce's disease Treatable

Pierce's disease is known since 1892 after the description made by Newton Pierce. Pierce's disease is recognized as the most devastating grape disease caused by a bacterium. The disease is severe in countries like US, and is



Aggressive



Learn more

EDITED RECENTLY



WINE MAKING MICROORGANISMS



2672 microorganisms registered in Wikibiome

FEATURED MICROORGANISM

Armillaria mellea Fungus Plant Health Wine Making

Also known as "Honey fungus",
Armillaria is a genus of parasitic
fungi that lives on trees and woody
shrubs. It includes about 10
species formerly lumped together
as A. mellea. Armillarias are long
lived and form some of the largest



O NOT FOUND IN YOUR SAMPLES

Learn more

EDITED RECENTLY



Plasmopara viticola

Success Cases & Curiosities

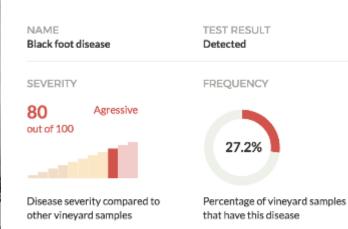
Heavy treated vineyard: Healthy soil or dead soil?

E









DISEASE RISK TEST

Diseases found

Based on

660
Microorganisms found in the sample

Visualize these abundances in the toolkit

Average in Organic soils: 1.067 sp

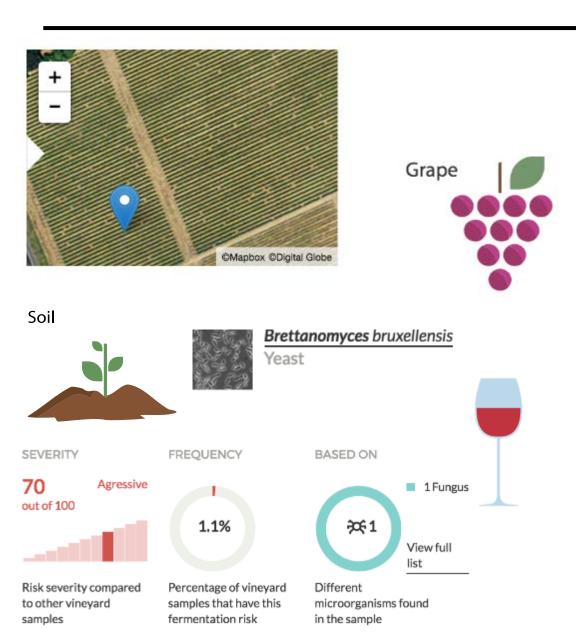
POTENTIAL FERMENTATION TEST

Enhancers



VIEW FULL REPORT

Brett detection in Soil, Grape and Wine



•

SEVERITY

out of 100

samples

SEVERITY

<10 out of 100

Risk severity compared to other vineyard

Risk severity compared

to other vineyard

samples

Mild

Mild

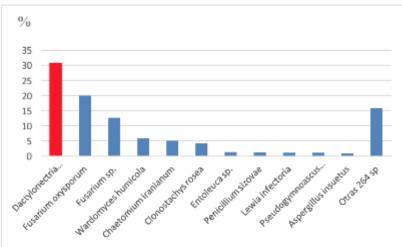
20



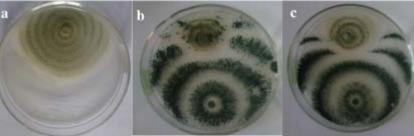








5 Biocontrol sp





www.portal.wineseq.com/success_cases

WineSeq works and the proof is here







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