

## **INTERNATIONAL COOPERATION TO LEARN MORE ABOUT THE INVISIBLE PART OF THE VINE**

As part of its "New Age" experimental vineyard, the co-operative Les Vignerons de Buzet has teamed up with the international company Biome Makers to develop sustainable and precision viticulture.

The challenge is to be able to cultivate and take care of the vines on the basis of a fine analysis of soil microbiology, in order to better understand the interactions between the plant and microbial life, and to be able to measure and improve its resilience, nutrition and health in general. This is thanks to the high-tech BeCrop tool deployed by Biome Makers.

The data collected and their follow-up should provide us with valuable information on the impact of our actions according to the different modalities put in place at the "New Age" vineyard.

Scientific monitoring, with precision tools, will allow to open a window on the invisible, that is to say what happens in the soil, and especially at the roots of the vine and its interactions with other subterail elements (mycorrhizae, bacteria, fungi, etc. ).

This specific proposal describes a two-stage collaboration between Buzet's Vignerons and Biome Makers with clear objectives:

- To analyze the impact of agroforestry on the taxonomy, diversity and functional capacity of the soil microbiome;
- Know the microbiome of the resident soil associated with different plots, varieties and moments;
- Describe the impact of certain biostimulants or biological control products on the soil microbiome;
- To analyze the functional biodiversity of this soil in terms of nutrients, the ability to mobilize fertilization and the risk of disease, depending on the presence of pathogens.

### **Contact Press**

Mariane Riboulet – [mrriboulet@vignerons-buzet.fr](mailto:mrriboulet@vignerons-buzet.fr) – 05 53 84 17 15

[www.nouslesvigneronsdebuzet.fr](http://www.nouslesvigneronsdebuzet.fr)

## BIOME MAKERS

Biome Makers is an agtech services company that models soil functionality to improve the productivity of arable soils. Starting in 2015, the company developed a patented technology incorporating DNA sequencing and environmentally friendly computer technologies to decipher one of the most complex biomarkers, the ground microbiota. Biome Makers' multidisciplinary team has been widely recognized and rewarded by the industry for its ability to implement sustainability and help regenerate soils. Its mission is to become the primary platform for soil functionality by enabling the integration of soil data with other precision technical agro platforms and by making recommendations for the most appropriate data-based inputs. Biome Makers is currently working with farmers around the world to improve their living soils.

<https://biomemakers.com>

## LES VIGNERONS DE BUZET GROW THE "NEW AGE" VINEYARD

Having nature as a model has always been the credo of the *cooperative Les Vignerons de Buzet*. Buzet's winemakers are inspired to plant and cultivate their "New Age" vineyard. The objective of this experimental vineyard is to achieve a self-fertile vineyard, without chemical inputs and resistant to bio-aggressors (Mildiou, Oidium, insect pests), not to mention the profitability of the latter.

This "New Age" vineyard presents more than 30 methods of experimentation and mixes different techniques such as agroforestry (plant cover, hedges, trees in rows of vines, wetlands...), resistant grape varieties, high technology... the idea is to build up a set of innovative know-how that can be deployed when the time comes to the agricultural holdings of our members.

### Key figures and dates:

Total area: 17 ha (11.5 hectares of vines and 5.5 ha composed by trees, hedges...)



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