

Save Our Planet, One Glass at a Time

SOP - Save Our Planet, Benefit Company and B Corp has unveiled the remarkable findings of a pioneering study published under the title *"Responses on vegetative growth, yield, and quality with the application of Resonant® Fortify White fertilizer in Vitis vinifera L. cv. Chardonnay."*

Executive summary

- **3 universities involved:**
 - University of Padua, Italy;
 - University of Milan, Italy;
 - University of California, Davis, USA.
- **2 commercial vineyards in Northern Italy:**
 - Verona (VR), Padova (PD)
 - independent, uniform blocks
 - application of Resonant Fortify White vs only owner's standard practices
 - Chardonnay variety
- **Greater plant vigor;**
- **-97% blind buds**, as a consequence of a significant improvement in vegetative growth;
- **Lower heat stress;**
- **Lower water stress;**
- **+16% harvest yield** without compromising the quality of the grapes;
- **+60% YAN content in the juice.**



ITALUS 
HORTUS 
[Read the full study here](#)

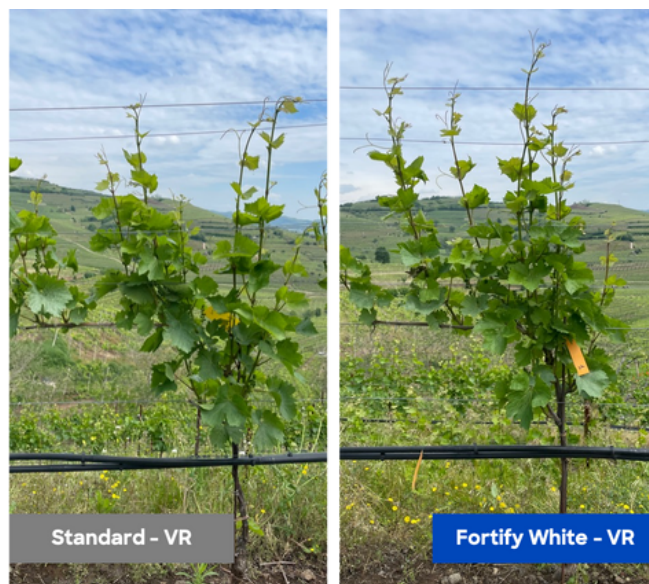
Conducted in collaboration with the **University of Padua, the University of Milan, and the University of California, Davis**, the research showcases the exceptional benefits of **Resonant® Fortify White** for cultivating Chardonnay grapevines.

This groundbreaking study, published in *Italus Hortus: Italian Journal of Horticultural Science*, provides **robust scientific evidence of the fertilizer's impact on enhancing vegetative growth, improving plant resilience, and increasing vineyard yield, all while maintaining superior grape quality.**

Extraordinary Results for Viticulture

Enhanced Vegetative Growth

The application of Resonant® Fortify White led to a significant improvement in vegetative growth for Chardonnay grapevines. The treated plants exhibited fuller, more uniform foliage and robust shoot development, accompanied by a **dramatic reduction in blind buds: of up to -97%** compared to owner's standard cultivation practices.



Difference in reduction in blind buds

Increased Plant Resilience

Despite their vigorous vegetative growth, plants treated with Resonant® Fortify White demonstrated **superior resistance to water stress**. Enhanced chlorophyll content in the leaves facilitated **more efficient nutrient absorption**, contributing to the plants' overall robustness and vitality.



Difference in chlorophyll content

Improved Wine Yield and Quality

The treated vines achieved a **16% increase in harvest yield without compromising the quality of the grapes.**

Additionally, the must from the treated plants displayed a **60% higher concentration of Yeast Assimilable Nitrogen (YAN)**, exceeding optimal thresholds. This improvement promotes **more stable fermentations, a refined aromatic profile, and superior wine quality, while reducing the need for external interventions.**



Standard



Fortify White

Difference in Grape Cluster density and weight

Sustainability Meets Innovation

The study reinforces SOP's commitment to advancing **sustainable agricultural practices that enhance productivity while respecting environmental integrity.** Resonant® Fortify White exemplifies the union of technological innovation and ecological responsibility, offering an **effective solution for the challenges faced by modern viticulture.**

A Future-Oriented Vision for Viticulture

The Resonant for Wine product line has been meticulously designed to meet the **specific needs of grapevine cultivation, supporting both organic and biodynamic farming methods.** By aligning productivity goals with sustainability, these scientifically validated solutions empower winemakers to **optimize natural resources while minimizing environmental impact.**

Marco Poggianella, founder and researcher at SOP, expressed his enthusiasm for the findings:

“This research is the culmination of years of work alongside viticulturists and oenologists in the vineyards and wineries all over the world. These results scientifically validate the effectiveness of Resonant® for Wine products and underscore a principle we’ve long championed: **the true capital of winemakers lies in the soil beneath the vines, along with its biodiversity.** By fostering a better interaction between soil microorganisms and vines, our solutions make vineyards **more resilient, enabling them to adapt to the growing challenges of climate change.**”



Marco Poggianella - Founder, CEO and Lead researcher of SOP

Disruptive innovation in Viticultural Science



Professor Franco Meggio of the University of Padua, **co-author of the study**, emphasized the rigorous methodology and comprehensive data collection that underpin the research. “Through a replicable scientific process, we have shown that plants treated with Resonant® Fortify White not only exhibit greater growth but also maintain resilience under water stress conditions. **Scientifically, this challenges conventional norms, and when a canon is overturned, true innovation emerges**” Meggio stated.

Franco Meggio - professor and co-author of the scientific study

Oenologist **Andrea Moser**, a member of the Resonant for Wine Advisory Board, guided a **tasting session** comparing several wines from vines treated with Resonant for Wine products to those grown under owner's standard practices. All groups of grapes were vinified identically by the Agricultural Institute of San Michele all'Adige. The wines from treated vines showed a **clear advantage, both in sensory qualities and objective measurements.**

"It is remarkable to taste the tangible benefits of soil and plant treatments in the glass," Moser remarked. "Climate change is already challenging viticulture, and its impact will only intensify. This publication highlights how we can still **secure a future for high-quality wine production in our historic latitudes.**"



Andrea Moser, oenologist, wine maker and member of Resonant for Wine Advisory Board



Further Information

For more details about the products and research results, please visit www.resonanttechnology.eu or contact our press office.

Scientific Publication: [Read the full study](#)

Certified



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