



REBUILD. RESTORE. RENEW.

## NEWS RELEASE

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### Healthier Vines Yield Better Wines

Bio S.I. Technology all-natural and organic microbial soil solutions  
reduce the need for chemical inputs

**Justin, TX – November 2012** – The idea of *terroir* and its relation to the quality of wine grapes produced is a growing trend among vintners and has been practiced all over the world for centuries. *Terroir* encompasses the art of selecting the proper soil type and location which will produce the highest quality of grapes, which they supposed made all the difference in better tasting wines.<sup>1</sup> Modern research shows there are in fact intrinsic qualities of soil that blend this art of tending the proper soil type with actual science. The most important factors involved in healthy soil for vine growth include good internal drainage and adequate depth.<sup>2</sup> Each one of these qualities can be lost when microbial populations in the soil become depleted over time. Bio S.I. Technology ([www.biositechnology.com](http://www.biositechnology.com)), a company that specializes in natural soil inoculants, has created their Agriculture and Agriculture Select formulas to return natural soil borne microbial populations to the soil helping rebuild vineyard soil humus and improve soil structure. This improves water and fertilizer efficiency as well improving water penetration into the soil.

As agricultural techniques have evolved over time, there have been marked increases in the amount of non-organic inputs, such as chemical fertilizers and pesticides, which can have a detrimental impact on soil life. We need to strive to renew the soil life to improve plant quality. The microbes in Bio S.I. Agriculture Formula and Agriculture Select help reduce crusting, improves root mass, and helps to release tied up nutrients in the soil. This is important when soil layers are shallow. Bio S.I. products help build humus in shallow soil which helps hold nutrients and water in the rhizosphere and helps to improve root vigor leading to better production. Compaction adversely affects the soil's ability to drain water as well as reduce root penetration and growth. Drainage is vital to grape vine root systems because they require an adequate amount of oxygen in the soil to survive. Dirt particles that are pressed too firmly together will become easily saturated with water, and the roots can suffocate and rot. The reintroduction of naturally occurring soil borne microbial populations with Bio S.I.'s formulas counteract the negative effects of both compaction and nutrient re-absorption.

Bio S.I.'s Agriculture and Agriculture Select inoculants are comprised of natural soil borne microbes that disassociate fertilizer salts, breakdown chemical residues and plant waste into useable nutrients for plants. Soil microbes rebuild the humus layer that holds water and nutrients in the

<sup>1</sup> <http://www.environmental-expert.com/Files%5C5302%5CArticles%5C9828%5CTheroleofsoilchemistryinwine.pdf>

<sup>2</sup> <http://winegrapes.tamu.edu/grow/soils.html>



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rhizosphere as well as reduce compaction. This activity loosens the soil improving water penetration and root mass. Agriculture and Agriculture Select formulas maximize the efficiency of chemical fertilizers and irrigation so that less can be used of both. Because the roots can efficiently absorb the proper level of nutrients, they will grow to their full potential while also staving off nutrient deficiencies and diseases associated with weak root growth. Vines can be healthy without the need for excess chemicals and irrigation, resulting in higher quality crop outputs with lower input costs. Placing the focus back on soil vigor and health is at the root of successful vineyards, and Bio S.I.'s formulas aid in achieving that possibility, naturally.

"If you need to improve your vines' root vigor and growth, reduce crusting, and improve humus level in your vineyard, then Bio S.I. products will help you now," says Wayne Tucker, President of Bio S.I. Other benefits are improved water and fertilizer efficiency, improved plant vigor as well as growth. Several vineyard owners point out that they have better looking vines with much less dead wood since starting our rebuilding program. They also comment on the quality of the grapes since beginning their rebuilding program."

#### **About Bio S.I. Technology**

Bio S.I. Technology, LLC is a USDA BioPreferred™ member and includes a team of experts who have over 20 years of experience producing microbial products. Bio S.I. produces a variety of microbial products including Bio S.I. Turf Formula, Turf Select, Lawn & Garden Formula, Lawn & Garden Select, Agriculture Formula, Pond Formula, Septic Cleanser Formula, Remediation Formula and JACKPOT, a new pro-biotic product which brings the naturally beneficial soil borne microbes found in nature to animals. For more information about Bio S.I. Technology, or to purchase their cutting-edge formulas, please visit [www.biositechnology.com](http://www.biositechnology.com).

If you would like further information, images, or would like to schedule an interview with Wayne Tucker, President of Bio S.I. Technology, please contact Lindsey Beedle via email at [lbeedle@christiecomm.com](mailto:lbeedle@christiecomm.com) or by phone at 805-969-3744.