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University of Bordeaux and Biolaffort Create Oenoledge to Develop Preventive Winemaking Tools

The laboratory at Bordeaux’s vine and wine institute will study earlier cellar interventions as climate change alters grapes and fermentation.

Monday, September 14, 2026



The University of Bordeaux and Biolaffort have formalized Oenoledge, a joint laboratory based at the Institute of Vine and Wine Science, or ISVV, in Bordeaux, as part of a long-term partnership focused on new winemaking solutions.

ISVV said this week that the joint lab is intended to develop innovative tools and methods in enology, with a focus on what it describes as preventive enology. In practice, that means working earlier in the winemaking process to identify risks, guide technical decisions and reduce problems before they affect the final wine.

The partnership also targets one of the main pressures facing wine producers in France and other growing regions: the effect of climate change on grapes and fermentation. Higher temperatures, recurring heat waves and drought can change sugar levels, acidity, phenolic balance and microbial conditions in musts and wines. Those shifts can complicate efforts to preserve style, balance and the characteristics that define a wine’s origin.

According to ISVV, Oenoledge is meant to connect academic research with industrial expertise in a structured way. Joint laboratories in France are often used to move research more quickly from the laboratory to commercial use, especially in sectors where product quality depends on both scientific understanding and practical results. In this case, the work is tied directly to cellar operations and the technical choices made during vinification.

The announcement marks a formal step in a relationship that ISVV presented as one built over time. While the institution did not describe the partnership as a short-term project, it framed the joint lab as a durable collaboration meant to support sustained research and development rather than a single study or a limited pilot program.

That approach matters for the beverage industry because climate pressure is not only a farming issue. It also affects processing, formulation and consistency in finished products. For wine producers, earlier and more precise technical interventions may help protect quality and typicity even when raw material conditions are less predictable. That could be especially important for companies trying to maintain stable product profiles from one vintage to the next while facing warmer growing seasons and tighter water availability.

The work around preventive enology may also be relevant for suppliers that provide yeasts, nutrients, analytical tools and other winemaking inputs. As cellar conditions and grape composition change, demand is likely to grow for solutions that can help winemakers act before faults, imbalances or unwanted deviations take hold. Research partnerships like Oenoledge can therefore shape not only winery practices but also the development of products sold across the broader wine supply chain.

Bordeaux is a significant place for that effort. The region is one of the world’s best known wine centers and has been under increasing pressure to adapt to changing weather patterns. Research based there can carry weight well beyond southwestern France because many of the issues being studied are shared by producers in Europe, the Americas, Australia and other wine regions.

ISVV’s announcement did not provide detailed research results, timelines or specific technologies under development. It presented the joint lab primarily as an institutional framework for future work. Even so, the direction is clear: the partners want to strengthen applied enology research at a time when wineries are looking for ways to preserve quality under more volatile climate conditions.

For producers, the central issue is not only making wine under difficult harvest conditions, but doing so while keeping the sensory identity and market expectations attached to each label. That makes preventive approaches more attractive, since they aim to anticipate problems instead of correcting them after losses in quality have already occurred. In a sector where small differences in balance, aroma and texture can affect both price and brand reputation, that shift in timing can carry commercial value as well as technical value.

The creation of Oenoledge adds to a broader movement in wine research toward adaptation strategies that are practical, data-driven and closely linked to industry needs. In Bordeaux, the new lab gives the University of Bordeaux and Biolaffort a formal platform to pursue that work inside one of France’s main centers for vine and wine science.