

Cosmic mouthful: Tasters savor fine wine that orbited Earth

March 24 2021, by Masha MacPherson and Angela Charlton



Philippe Darriet, Président of the Institute for wine and vine research and head oenologist fills glasses with wine for a blind tasting at the ISVV Institue in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. (AP Photo/Christophe



Ena)

It tastes like rose petals. It smells like a campfire. It glistens with a burnt-orange hue. What is it? A 5,000-euro bottle of Petrus Pomerol wine that spent a year in space.

Researchers in Bordeaux are analyzing a dozen bottles of the precious liquid—along with 320 snippets of Merlot and Cabernet Sauvignon grapevines—that returned to Earth in January after a sojourn aboard the International Space Station.

They announced their preliminary impressions Wednesday—mainly, that weightlessness didn't ruin the wine and it seemed to energize the vines.

Organizers say it's part of a longer-term effort to make plants on Earth more resilient to <u>climate change</u> and disease by exposing them to new stresses, and to better understand the aging process, fermentation and bubbles in wine.

At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the <u>space</u>-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar.

A special pressurized device delicately uncorked the bottles at the Institute for Wine and Vine Research in Bordeaux. The tasters solemnly sniffed, stared and eventually, sipped.

"I have tears in my eyes," Nicolas Gaume, CEO and co-founder of the company that arranged the experiment, Space Cargo Unlimited, told The Associated Press.





Philippe Darriet, president of the Institute for Wine and Vine Research (ISVV) and chief oenologist holds a bottle of Petrus red wine that spent a year orbiting the world in the International Space Station after a tasting session at the ISVV in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. (AP Photo/Christophe Ena)

Alcohol and glass are normally prohibited on the International Space Station, so each bottle was packed inside a special steel cylinder during



the journey.

At a news conference Wednesday, Gaume said the experiment focused on studying the lack of gravity—which "creates tremendous stress on any living species"—on the wine and vines.

"We are only at the beginning," he said, calling the preliminary results "encouraging."

Jane Anson, a wine expert and writer with the wine publication Decanter, said the wine that remained on Earth tasted "a little younger than the one that had been to space."

Chemical and biological analysis of the wine's <u>aging process</u> could allow scientists to find a way to artificially age fine vintages, said Dr. Michael Lebert, a biologist at Germany's Friedrich-Alexander-University who was consulted on the project.





Chief Operating Officer of French National Centre for Space Studies (CNES) Lionel Suchet takes a pictures of glasses of red wine during a tasting of regular bottles and others that spent a year orbiting the world in the International Space Station, at the ISVV in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. (AP Photo/Christophe Ena)

The vine snippets—known as canes in the grape-growing world—not only survived the journey but also grew faster than vines on Earth, despite limited light and water.



Once the researchers determine why, Lebert said that could help scientists develop sturdier vines on Earth—and pave the way for grapegrowing and wine-making in space.

Christophe Chateau of the Bordeaux Wine-Makers' Council welcomed the research as "a good thing for the industry," but predicted it would take a decade or more to lead to practical applications. Chateau, who was not involved in the project, described ongoing efforts to adjust grape choices and techniques to adapt to ever-warmer temperatures.

"The wine of Bordeaux is a wine that gets its singularity from its history but also from its innovations," he told The AP. "And we should never stop innovating."





Bordeaux Mayor Pierre Hurmic, background center, Chief Operating Officer of French National Centre for Space Studies (CNES) Lionel Suchet, right, attend a tasting of normal bottles of red wine and others that spent a year orbiting the world in the International Space Station, in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. (AP Photo/Christophe Ena)



A view of the Institute for wine and vine research (SVV), in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results



Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. (AP Photo/Christophe Ena)



Stephanie Cluzet, head of the Vine Researcher Institute for wine and vine research holds snippets of grapevines that spent a year orbiting the world in the International Space Station, at the ISVV Institute for wine and vine research in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. (AP Photo/Christophe Ena)



Private investors helped fund the project, which the researchers hope to continue on further space missions. The cost wasn't disclosed.

For the average earthling, the main question is: What does cosmic wine taste like?

"For me, the difference between the space and <u>earth</u> wine ... it wasn't easy to define," said Franck Dubourdieu, a Bordeaux-based agronomist and oenologist, an expert in the study of wine and <u>wine</u>-making.

Researchers said each of the 12 panelists had an individual reaction. Some observed "burnt-orange reflections." Others evoked aromas of cured leather or a campfire.





Stephanie Cluzet, Head of Vine Researcher Institute for Wine and Vine Research (ISVV) holds up a snippet of grapevines, left, that spent a year orbiting the world, in the International Space Station, and compared with another sample of grapevine of the same age and same grape variety grown on earth, at the ISVV in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. (AP Photo/Christophe Ena)



Snippets of grapevines that spent a year orbiting the world in the International



Space Station, with yellow markers, grow at the Institute for Wine and Cine Research in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that had stayed in a cellar. AP Photo/Christophe Ena)



Bordeaux Mayor Pierre Hurmic smells glasses of wine, during a tasting session, with one glass containing wine that spent a year orbiting the world in the International Space Station, at the Institute for Wine and Vine Research in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing



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Stephanie Cluzet, Head of Vine Researcher at the Institute for Wine and Vine Research, left, speaks with Nicolas Gaume, CEO and co-founder Space Cargo Unlimited next to snippets of grapevines, with yellow markers, that spent a year orbiting the world in the International Space Station at the ISVV Institute for wine and vine research in Villenave-d'Ornon, southwestern France, Monday, March 1, 2021. Researchers in Bordeaux are carefully studying a dozen bottles of French wine that returned to Earth after a stay aboard the International Space Station. They're releasing preliminary results Wednesday, March 24, 2021. At a one-of-a-kind tasting this month, 12 connoisseurs sampled one of the space-traveled wines, blindly tasting it alongside a bottle from the same vintage that



had stayed in a cellar. (AP Photo/Christophe Ena)

"The one that had remained on Earth, for me, was still a bit more closed, a bit more tannic, a bit younger. And the one that had been up into space, the tannins had softened, the side of more floral aromatics came out," Anson said.

But whether the vintage was space-flying or earthbound, she said, "They were both beautiful."

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