Tempus Introduces Fuses, A Program Designed to Transform Therapeutic Research and Build the Largest Diagnostic Platform Using its Novel Foundation Model

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The initiative will apply its massive, multimodal dataset to build models that aim to improve diagnostic, prognostic, and predictive modeling

CHICAGO--(BUSINESS WIRE)--May 31, 2025-- Tempus AI, Inc. (NASDAQ: TEM), a technology company leading the adoption of AI to advance precision medicine and patient care, today announced the launch of its Fuses program. This initiative will harness Tempus' proprietary dataset to generate valuable insights for both patient care and research, combining the power of its data and machine learning capabilities to develop an AI enabled-diagnostic platform offering physicians the largest suite of algorithmic tests designed to make precision medicine a reality.

Over the past decade, Tempus has built a multimodal data library of over 40 million research records, including more than 1.5 million records with matched clinical data linked with genomic information, 2 million records with imaging data, and approximately 300,000 records with genomic and whole transcriptomic data. The scale and size of this data library will allow the company to uncover groundbreaking discoveries that were previously out of reach.

Fuses will accelerate Tempus' comprehensive testing portfolio, expanding its suite of AI-enabled diagnostics. Insights from Fuses will be developed into clinically validated algorithmic diagnostics that may enable highly personalized care, such as identifying patients unlikely to respond to approved therapies or those at risk of severe treatment-related events. Tempus has already begun this work with last year's launch of its Immune Profile Score (IPS) a multimodal biomarker that can be used as a prognostic indicator for adult patients with metastatic pan-solid tumors eligible for immune checkpoint inhibitor (ICI)-based therapy.

"We have spent the last ten years building, scaling, and curating one of the most comprehensive datasets in our industry, and now we are well positioned to develop the world's largest diagnostic model, designed to answer critical, unsolved questions and make our diagnostics smarter and more personalized," said Eric Lefkofsky, Founder and CEO of Tempus. "We are on the brink of delivering tangible, transformative change in matching the right therapies to the right patients - making personalized care a reality for millions."

The foundational model behind Fuses is learning generalizable rules determining prognosis and drug benefit in real-world practice. With the goal of furthering researchers' understanding of why certain clinical trials fail, identify new indications for investigational drugs, optimize trial design, and uncover combination therapies to broaden patient benefit. By revealing biomarker rules, the model may also surface mechanisms of drug response and resistance to inspire a new generation of companion diagnostics and therapeutic research.

About Tempus

Tempus is a technology company advancing precision medicine through the practical application of artificial intelligence in healthcare. With one of the world's largest libraries of multimodal data, and an operating system to make that data accessible and useful, Tempus provides AI-enabled precision medicine solutions to physicians to deliver personalized patient care and in parallel facilitates discovery, development and delivery of optimal therapeutics. The goal is for each patient to benefit from the treatment of others who came before by providing physicians with tools that learn as the company gathers more data. For more information, visit tempus.com.

Forward Looking Statements

This press release contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended, about Tempus and Tempus' industry that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this press release are forward-looking statements, including, but not limited to, statements regarding the potential impact of Fuses and its insights in oncology clinical care and therapeutic research and discovery, are forward-looking statements. In some cases, you can identify forward-looking statements because they contain words such as "anticipate," "believe," "contemplate," "continue," "could," "estimate," "expect," "going to," "intend," "may," "plan," "potential," "predict," "project," "should," "target," "will," or "would" or the negative of these words or other similar terms or expressions. Tempus cautions you that the foregoing may not include all of the forward-looking statements made in this press release.

You should not rely on forward-looking statements as predictions of future events. Tempus has based the forward-looking statements contained in this press release primarily on its current expectations and projections about future events and trends that it believes may affect Tempus' business, financial condition, results of operations and prospects. These forward-looking statements are subject to risks and uncertainties related to: Tempus' financial performance; the ability to attract and retain customers and partners; managing Tempus' growth and future expenses; competition and new market entrants; compliance with new laws, regulations and executive actions, including any evolving regulations in the artificial intelligence space; the ability to maintain, protect and enhance Tempus' intellectual property; the ability to attract and retain qualified team members and key personnel; the ability to repay or refinance outstanding debt, or to access additional financing; future acquisitions, divestitures or investments; the potential adverse impact of climate change, natural disasters, health epidemics, macroeconomic conditions, and war or other armed conflict, as well as risks, uncertainties, and other factors described in the section titled "Risk Factors" in Tempus' Annual Report on Form 10-K for the year ended December 31, 2024, filed with the Securities and Exchange Commission ("SEC") on February 24, 2025, as well as in other filings Tempus may make with the SEC in the future. In addition, any forward-looking statements contained in this press release are based on assumptions that Tempus believes to be reasonable as of this date. Tempus undertakes no obligation to update any forward-looking statements to reflect events or circumstances after the date of this press release or to reflect new information or the occurrence of unanticipated events, except as required by law.

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