Tempus Announces Six Abstracts Accepted for Poster Presentation at the 2021 San Antonio Breast Cancer Symposium

December 7, 2021

The complete list of Tempus authored and affiliated abstracts can be found on the Tempus publications page.

Tempus, a leader in artificial intelligence and precision medicine, today announced six abstracts accepted for poster sessions at the 2021 San Antonio Breast Cancer Symposium (SABCS) taking place December 7 – 10. The presented findings highlight the unique insights that Tempus' data and smart diagnostics generate to advance breast cancer research.

"The research that Tempus is presenting at this year's symposium underscores the impact that our comprehensive genomic profiling data has on enabling clinicians to make more informed treatment decisions while also powering research for future therapeutics," said Dr. Kimberly Blackwell, Chief Medical Officer at Tempus.

Tempus will present six posters that highlight research to support the use of more personalized treatments for breast cancer patients, conducted with researchers from institutions including Rush University Medical Center, Columbia University Irving Medical Center, and Washington University School of Medicine. Three abstracts selected for poster presentation at SABCS 2021 are highlighted below:

PD14-01: Comprehensive molecular characterization of patients with metastatic invasive lobular carcinoma (ILC): Using real-world data to describe this unique clinical entity

- **Overview:** This study characterizes the genomic and transcriptomic landscape of advanced or metastatic ILC and co-mutational landscape of *CDH1*-mutant disease. Researchers retrospectively analyzed 201 de-identified patients with ILC or mixed lobular/ductal histology who were tested via Tempus xT, with abstracted pathology reports. *CDH1* mutations were present in 65.3% of all metastatic ILC cases. *PIK3CA* mutations were more common in patients with *CDH1*-mutant disease than in patients with *CDH1*-wildtype disease, suggesting that therapies targeting *PIK3CA* may be further investigated for their actionability in *CDH1*-mutant metastatic ILC.
- ***Session:*** *Spotlight Poster Discussion 14*
- ***Date:*** *Friday, December 10, 2021*
- ***Time:*** *7:00 am – 8:30 am CT*

P3-08-04: The genomic and transcriptomic landscape of PIK3R1-mutated breast cancers

- **Overview:** This study investigates the significance of *PIK3R1* mutations in metastatic breast cancer. Researchers retrospectively analyzed a de-identified cohort of 4,296 patients with breast cancer who underwent Tempus xT testing. Patients with *PIK3R1* mutations have more frequent mutations associated with poor outcomes and endocrine therapy resistance (*PTEN* and *NF1*) compared with patients who are *PIK3R1* wild type.
- ***Session:*** *Poster Session 3*
- ***Date:*** *Thursday, December 9, 2021*
- ***Time:*** *7:00 am – 8:30 am CT*

P3-09-04: Genomic landscape of HER2-negative advanced or metastatic breast cancer with PIK3CA gain-of-function mutations

- **Overview:** The study provides insight into possible mechanisms of therapeutic resistance to alpelisib/fulvestrant and identifies potential targeted pathways. Researchers retrospectively analyzed a cohort of 2,918 patients with HER2-negative advanced or metastatic breast cancer with *PIK3CA* gain-of-function mutations sequenced with Tempus xT, xO or xE. From this

cohort, researchers found that there is substantial genomic heterogeneity among *PIK3CA*-mutated HER2- advanced/metastatic breast cancers, however future studies are needed to assess the prognostic and predictive role of the identified co-mutations and other candidate gene alterations.

- ***Session:*** *Poster Session 3*
- ***Date:*** *Thursday, December 9, 2021*
- ***Time:*** *7:00 am – 8:30 am CT*

Additional Tempus-affiliated abstracts accepted for poster presentation at SABCS 2021 include:

PD2-01: A platform of CDK4/6 inhibitor-resistant patient-derived breast cancer organoids illuminates mechanisms of resistance and therapeutic vulnerabilities

- ***Session:*** *Spotlight Poster Discussion 2*
- ***Date:*** *Wednesday, December 8, 2021*
- ***Time:*** *7:00 am – 8:30 am CT*

GS3-09: Loss of ASXL1 tumor suppressor promotes resistance to CDK4/6 inhibitors in ER+ breast cancer

- ***Session:*** *General Session 3*
- ***Date:*** *Thursday, December 9, 2021*
- ***Time:*** *10:45 am CT*

P5-08-05: Preclinical activity of KB-0742, an oral, highlight selective, CDK9 inhibitor, in cell lines and in MYC-high expressing, patient-derived models of multiple breast cancer subtypes

- ***Session:*** *Poster Session 5*
- ***Date:*** *Friday, December 10, 2021*
- ***Time:*** *7:00 am – 8:30 am CT*

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 clinical and molecular data, and an operating system to make that data accessible and useful, Tempus enables physicians to make near real-time, data-driven decisions 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 www.tempus.com.

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