Glympse to Present Dataset Demonstrating Liquid Biopsy Approach to Predict NASH at AASLD's The Liver Meeting

- Glympse data being presented at The Liver Meeting demonstrate that assaying protease activity from a simple blood draw can predict NASH versus healthy patients
- Glympse's next-generation biosensor technology has the potential to improve patient care for NASH and many other diseases mediated by protein activity

CAMBRIDGE, Mass., Nov. 12, 2021 -- Glympse, a biotechnology company developing revolutionary technology to diagnose and monitor disease, today announced new details about its upcoming late breaker oral presentation at the American Association for the Study of Liver Disease (AASLD) annual The Liver Meeting, being held virtually from Nov. 12-15, 2021. The presentation, titled "Accurate Diagnosis of NASH Using Novel Protease Based Liquid Biopsy", will be given by Arun J. Sanyal, M.D., of the Division of Gastroenterology, Hepatology and Nutrition at Virginia Commonwealth University (VCU) on Sunday, Nov. 14, between 1:00-2:30 p.m. ET.

There is a critical unmet need to develop a noninvasive method to diagnose and monitor non-alcoholic steatohepatitis (NASH). While liver biopsy is the current reference standard for NASH assessment, heterogeneity of liver damage and the invasiveness of the biopsy remain clinical challenges. In its presentation at the AASLD Liver Meeting, Glympse will demonstrate that liver protease activity can be assayed instead using a simple blood draw. This is an evolution from the previous generation of Glympse's biosensor assay, which was administered via injection and measured from a urine sample. The new Glympse biosensor technology only requires a blood sample, greatly increasing patient convenience and safety.

The data in the presentation explain how the new liquid biopsy platform demonstrated highly reproducible results in both mouse model experiments and pilot studies of human blood samples. In mouse model experiments, plasma activity of a NASH-associated protease, Cathepsin L (CTSL), classified NASH versus healthy with perfect accuracy (AUC 1.00) while CTSL abundance measured by ELISA was a poor predictor of disease (AUC 0.51). Glympse screened over 450 potential biosensors to identify a panel of 19 biosensors optimized to interrogate the diverse biological pathways driving NASH. Investigators then tested this panel in a powered cohort of NASH and healthy (lean and obese) patients (n=88). The biosensor assay demonstrated highly accurate classification of NASH versus healthy samples with an AUC of 0.97, indicating the diagnostic potential of measuring liver-associated protease activity from a blood draw. Future studies will be developed to examine a larger cohort of healthy, non-alcoholic fatty liver disease (NAFLD) and NASH patient blood samples.

"The data being presented at AASLD represent the next generation of technology to diagnose and monitor disease," said Caroline Loew, Ph.D., Chief Executive Officer of Glympse. "Because protein activity is downstream and distinct of DNA, RNA, and protein-based diagnostics, our technology offers a unique opportunity to probe disease state and provide clinically actionable results. This has implications not just for NASH, but for cancers, autoimmune diseases, and other fibrotic diseases as well."

Dr. Sanyal added, “These data demonstrate the diagnostic potential of protease activity to accurately predict NASH disease state. I look forward to working further with Glympse to expand upon these findings, as this assay has the potential to greatly improve the quality of care for NASH patients.”

Details about the AASLD presentation can be seen below:

Title: Accurate Diagnosis of NASH Using Novel Protease Based Liquid Biopsy
Presented by: Arun J. Sanyal, M.D.
Time/Date: Sunday, November 14, 2021, 1:00 PM - 2:30 PM
Link: https://www.aasld.org/the-liver-meeting/accurate-diagnosis-nash-using-novel-protease-based-liquid-biopsy

The presentation will also be available to view on the Glympse website. For more information about Glympse and its biosensor technology, please visit www.glympsebio.com.

About Glympse
Glympse is a biotechnology company focused on optimizing disease diagnosis and monitoring. The company is developing biosensor technology that, from a simple blood draw, can measure the activity of proteins that are uniquely involved in the progression of disease. Using proprietary machine learning algorithms, the Glympse biosensor protease activity assay data is used to generate real-time information about the disease. The lead indication for this technology is non-alcoholic steatohepatitis (NASH), the most severe form of non-alcoholic fatty liver disease, which is currently diagnosed through an invasive liver biopsy procedure.

For more information, please visit www.glympsebio.com.

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