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SCIEX expands lipidomics portfolio

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Singapore: SCIEX, a life science analytical technologies provider, and Metabolon, a global company focused on metabolomics, have entered into a multi-year collaboration to develop and expand lipidomics portfolio.

Lipidyzer Platform, an integrated solution for accurate and meaningful next-generation lipidomics, is the first product resulting from the collaboration. The Lipidyzer Platform enables scientists to rapidly identify and quantify over one thousand lipid molecular species and is expected to play a role in researching diseases including cardiovascular disease, diabetes and neurodegenerative disorders. Built on SCIEX technology, and powered by Metabolon know-how, the Lipidyzer Platform includes newly developed sample preparation kits, separations technologies, mass spectrometry, software, and data analysis services.

Lipidomics researchers currently rely on fragmented mass spectrometry hardware and software systems for lipid analysis, resulting in inefficient workflows that cannot be reliably scaled up or used by a non-expert. Furthermore, lipid analysis typically involves complicated sample preparation techniques and challenging sample analysis, with many isobaric and near isobaric interferences that can be particularly problematic for lipid identification and accurate quantitation.

The all-in-one Lipidyzer Platform includes proprietary SelexION Technology to overcome these lipid separation challenges, and delivers highly accurate and sensitive quantitation across many common lipid classes. Sample preparation is simplified and standardized with sample preparation kits that have been optimized by leading lipidomics experts, improving the reproducibility and reliability of research data, as well as saving time.

"This is the first integrated scientific analyzer that's dedicated to quantitative lipid profiling and it will play a crucial role in making next-generation lipidomics available to the broader scientific community," said Mr Aaron Hudson, senior director of Academic and Clinical Research Business of SCIEX. "This platform does more than provide data; it's a game-changing solution, as it actually delivers actionable biological information that can be shared through our online cloud-based tools, helping to advance lipid-based disease research."