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Thermo Fisher, UC Davis launch CoE in clinical metabolomics

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Center will develop new technologies and reproducible analytical techniques to support rapid, cost-effective clinical research into applications for metabolomics in precision medicine



Thermo Fisher Scientific, and the University of California, Davis (UC Davis) West Coast Metabolomics Center, have announced the Center of Excellence (CoE) in Clinical Metabolomics, a research collaboration to provide the metabolomics community with innovations, best practices and standard operating procedures to support the rapid scale-up of large cohort studies and clinical research.

The Center of Excellence in Clinical Metabolomics, based on the UC Davis Sacramento campus in the US, will enable targeted and untargeted metabolic profiling for large-scale population-based cohorts across translational research and precision medicine.

The Center will develop standardized processes for the research community, including end-to-end metabolic profiling workflows; optimized liquid chromatography-mass spectrometry (LC-MS) methods, protocols for analytical controls to monitor instrument performance; and training courses for metabolomics staff, scientists and core lab managers.

As part of the collaboration, Thermo Fisher is providing its powerful Orbitrap technology. The Center will generate high-quality data using the latest generation of Orbitrap-based mass spectrometers in conjunction with the Thermo Scientific Vanquish Duo UHPLC system for increased throughput. This instrument combination will support the development of streamlined workflows for large-scale studies and translational research.

***Image Caption**: A scientist operates a Thermo Scientific Vanquish UHPLC with Q-Exactive HF-X mass spectrometer used in metabolomics research.*