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Thermo Scientific Krios G3i Cryo Transmission Electron Microscope Named Finalist for Fast Company's 2019 World Changing Ideas Awards

Krios G3i helps scientists stay on the leading edge of discovery

HILLSBORO, Ore., April 8, 2019 /PRNewswire/ -- Today, the Thermo Scientific Krios G3i Cryo Transmission Electron Microscope (Cryo-TEM) was named a finalist for Fast Company's 2019 World Changing Ideas Awards in the Health and Wellness category. The Krios G3i Cryo-TEM has become an essential tool for biologists, allowing them to uncover the minutest details of viruses and proteins, and provide insight into how diseases develop.

"We are pleased to see the continued adoption of the Krios G3i Cryo-TEM with both academic institutions and the pharmaceutical industry. Recognition as a Fast Company 2019 World Changing Ideas finalist further highlights the amazing research being conducted in the field," said Mike Shafer, president, materials and structural analysis, Thermo Fisher Scientific. "With installations in leading research facilities and universities around the world, the Krios G3i Cryo-TEM is used to accelerate research that will help our customers better understand disease mechanisms, and ultimately speed the path to prevention and treatment."

Cryo-EM, a technique where a sample is cooled to cryogenic temperatures (below -180°C), allows scientists to create 3D images of proteins and viruses that couldn't be obtained using other techniques. Understanding the structure of viruses and proteins helps determine how they function, potentially leading to prevention or treatment of diseases.

Using cryo-EM, scientists can better understand how proteins in the body operate and malfunction, which can lead to more effective treatments of today's most serious diseases, including Alzheimer's, Parkinson's and cancers. Scientists studying viruses like Zika, Ebola and the flu use cryo-EM techniques to flash-freeze the viruses, allowing them to study the complex structures frozen in time. The technique can speed the development time for effective vaccines.

Thermo Fisher has collaborated with some of the world's leading scientists to advance cryo-EM, and improvements to both the Krios G3i Cryo-TEM and its software allow users to reconstruct images into elaborate 3D structures at near-atomic resolution so they can find innovative ways to intervene in disease processes and, ultimately, bring new breakthroughs to patients.

For more information on the Thermo Scientific Krios G3i Cryo-TEM, please visit our product page.

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