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Thermo Fisher offers solution for Real-Time Cryo-EM data analysis

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New Embedded CryoSPARC Live software to be made available by Structura and Thermo Fisher and designed to integrate with Thermo Fisher technology



Thermo Fisher Scientific Inc. and Structura Biotechnology Inc., a leading provider of cryo-EM data analysis software, have announced a collaboration to make available a new single particle analysis software solution, a version of Structura's CryoSPARC Live, that is designed to integrate with Thermo Fisher's Smart EPU software and cryo-transmission electron microscope (cryo-TEM) technology. The new solution, Embedded CryoSPARC Live, will be offered as a subscription.

Embedded CryoSPARC Live will enable cryo-electron microscopy (cryo-EM) users of all experience levels to obtain high-quality data while reducing the time it takes to transform raw data into high-quality 3D protein structures from days to hours.

Embedded CryoSPARC Live will offer real-time cryo-EM data analysis, including pre-processing (motion correction and CTF estimation), particle picking and extraction, streaming 2D classification, ab-initio 3D reconstruction, and streaming 3D refinement. This workflow will enable users to make decisions to optimize data acquisition and can be used as an input for Smart EPU plugins, which automatically adjust EPU data acquisition parameters in real-time.