

Thermo Fisher Scientific support in engaging in Cryo-EM SPA

Alevtyna Yakushevskaya

Thermo Fisher Scientific, Achtseweg Noord 5, 5651 GG Eindhoven, The Netherlands

Alevtyna.Yakushevskaya@thermofisher.com

Cryo-EM – Single Particle Analysis (SPA) in particular - has rapidly developed from a pioneering into a mainstream application that has caused a revolution in the field of structural biology at the atomic resolution. Significant resolution improvements on 3D protein structures and their interactive states have led to an increasing insight in protein machineries, sub-cellular interactions and mechanisms. This will eventually contribute to answer real biologically as well as medically relevant questions.

The results that have recently been obtained and published have triggered a large group of new users – mostly originating from the field of X-ray crystallography and NMR – to adopt cryo-EM as a viable, complementary technology. Now, finally, a continuum has been reached on all important aspects with regards to resolution and macromolecular scales which allows for the full deployment of the combination of these technologies.

Starting however a cryo-EM laboratory can seem daunting, especially with all the technical expertise and application knowledge that's required.

To help ensure your success, Thermo Fisher Scientific partners with you throughout the process providing the guidance on what is required to build the Cryo-EM laboratory, providing training, and ongoing support you need to maximize your lab's productivity.

During this talk we will discuss the elements of the support Thermo Fisher Scientific provides you to minimise the hurdles in building your own Cryo-EM laboratory.