Mass Photometry: An Analytical Technology for Biomolecular Characterization

13 March 2026 (Friday) | 10am - 11am

Date: **13 March 2026, Friday**
Time: **10am - 11am**
Venue: **NUS, MD6-03-01S**

REGISTRATION IS FREE!

What's more, **register and attend the talk to receive a goodie bag!**

Mass photometry is a revolutionary new analytical technology based on interferometric scattering microscopy that enables the accurate mass measurements of single molecules in solution. Using only a few microliters of sample at nanomolar concentrations, measurements are completed within minutes, without the need for fluorescent or affinity labels.

For microbiology and biotechnology research, this label-free approach provides powerful insight into the composition, assembly, and heterogeneity of biological macromolecules. It allows precise characterization of protein complexes, nucleoprotein assemblies, viral particles, and other biologically relevant systems under near-native conditions. By resolving individual molecular species, mass photometry enables accurate analysis of biomolecular interactions, oligomerization states, and sample purity - critical parameters in recombinant protein production, vaccine development, and gene therapy workflows.

In this presentation, Refeyn will highlight the capabilities of the TwoMP model for:
i) Assessment of sample purity and oligomerization, ii) Characterization of protein and protein-nucleic acid complexes, iii) Quantification of binding interactions

Speaker

Bhaskar Barnwal, Ph.D.
Field Application Scientist
Refeyn Ltd

Registration Goodie Bag

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