

Characterization of biomolecules: structure, conformation, thermodynamics and kinetics

SE-04

A. García¹

¹Paralab S.L., Barcelona, Spain

We will present the instrumental novelties that will help us to control the biophysical parameters in our daily work with biomolecules, whether we are investigating in thermodynamics, kinetics, affinity or structure solving.

We will explore through Applied Photophysics Capabilities and Evolution of CD and The Future of CD Spectroscopy: The Power of Quantitative Circular Dichroism (qCD). Obtaining thermodynamic parameters such as T_m and $\Delta H_{\text{van't Hoff}}$ more quickly and accurately.

Novelties in Real-Time Label Free kinetics with Bio-Layer Interferometry (BLI) and Surface Plasmon Resonance (SPR) by Pall-ForteBio. Obtaining kinetic constants and affinity immediately without microfluidics.

We will introduce the new Rigaku X-ray Diffractometers for protein crystallography. Learn about the new 2D Hybrid Photon Counter (HPC) detectors manufactured by Rigaku and how the combination with rotating anodes will help you solve the most complicated structures in unmatched times.