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Pushing the Boundaries in Biomolecular Stability and Interaction Analysis with GCI and MicroCal

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Conventional bioassays often depend on labelling to detect biomolecular interactions and to assess protein stability. Label-free and real-time techniques are fundamental approaches for a better comprehension of structure and activity of molecules, from basic research to industry applications, allowing the analyst to get closer to the analyte and monitor it in more real conditions.

Microcalorimetry DSC and ITC platforms are the gold-standard for thermodynamic characterization of intra- and intermolecular forces allowing to characterize binding affinity and high-order structures. To assess kinetics parameters, grating-coupled interferometry (GCI), Creoptix®'s proprietary surface-based, label-free biosensing technology paired with no-clog WAVEchips®, is a new powerful tool to study a wider range of molecules remaining compatible with crude samples or complex matrices. This enables a broad range of applications including fragment-based screening and kinetic analysis of small molecules, protein-protein, protein-peptide, antibody-antigen, and nucleic acid interactions.

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