Label-Enhanced SPR Improves the Detectability of Label-Free Surface Plasmon Resonance Analysis 100x

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Label-enhanced SPR greatly improves the sensitivity and specificity of SPR (Surface Plasmon Resonance) analysis. Label-enhanced SPR can be used directly on standard SPR instruments (e.g. Biacore™ instruments) without any modification of the existing instrument hardware.

Label-enhanced SPR is based on labelling of one interactant with specialized dye labels combined with software-based curve shape analysis of the entire SPR dip curve. In this way, an extremely sensitive and fully specific measure of the binding of dye-labelled compound is obtained and plotted as an enhanced sensorgram or 'epigram'.

Our poster will illustrate the following aspects of Label-Enhanced SPR:

- Explanation of the basic principles of Label-Enhanced SPR.
- Label-free interaction analysis with label-enhanced readout.
- 100x improved detectability of small molecules due to enhanced sensitivity.
- 100x improved detectability of proteins due to enhanced specificity.