



# Advances in analyzing differences in low abundance protein expression

## Free webinar

Please join us for a free webinar discussing advances in analyzing expression differences in low abundance proteins using fluorescent imaging applications.

**Wednesday, 24 March 2010**

**New Delhi-11:30 a.m. IST**

**Beijing-2:00 p.m. CST**

**Seoul-3:00 p.m. KST**

**Tokyo-3:00 p.m. JST**

**Sydney-5:00 p.m. EDT**

Learn about the latest developments in fluorescent imaging applications including 2-D DIGE, multiplex fluorescent Western blotting and specific protein enrichment using the new convenient magnetic Sepharose™ beads.

We look forward to seeing you online and taking any questions you may have on this topic.

### Abstract

We describe fluorescence-based 2-D gel electrophoresis methods for improved analysis of low abundant tyrosine phosphorylated (pTyr) proteins. The methods investigated were fluorescent Western blotting and two-dimensional fluorescence difference gel electrophoresis (2-D DIGE) for detection of non-enriched and immunoaffinity enriched pTyr proteins patterns. The imantib treatment of cells from a cancer model system introduced a known perturbation of phosphorylation that enabled testing of these new approaches to analyze variations in tyrosine phosphorylation levels. Enrichment of pTyr proteins prior to the analysis was found highly advantageous for the outcome. Out of a simplified 2-D DIGE experiment of immunoaffinity enriched control and treated pTyr proteins, differential analysis as well as protein identification by mass spectrometry was possible.



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