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News Release

NEWS RELEASE - FOR IMMEDIATE RELEASE
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IMAGE ATTACHED

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New Application of Image Analyser
Offers Rapid, Accurate Detection of Nanogram Amounts of Protein

Cambridge, UK: Syngene, a world-leading manufacturer of image analysis solutions, is delighted to announce Dyversity, its multi-functional imager, can now rapidly detect 0.5ng of Sypro™ Ruby stained protein in less than a second. This new application of Dyversity makes it an ideal system for high-throughput gel-based proteomics.

Syngene's technical team used a Dyversity system with a Cy dye lighting module, a dual wavelength transilluminator, a blue light converter, UV, long pass, Cy3 dye and SG emission filters to image 1D acrylamide gels stained with Sypro Ruby, containing 1000-0.1ng of molecular weight standard PeppermintStick™ (Invitrogen). The gels were imaged under four conditions: Cy2 excitation with a Cy3 emission filter; Cy2 excitation with a UV emission filter; medium-wave UV excitation with a UV filter and medium-wave UV excitation with a blue light converter and SG filter.

The results showed using the medium-wave UV excitation with a blue light converter and SG filter, Dyversity could detect 5ng of Sypro Ruby stained protein in 4 seconds. The Cy2 illumination with either Cy3 or long pass emission filter allowed detection of 0.5ng of protein in two seconds, but the best results were obtained using the medium-wave UV and a UV filter which detected 0.5ng of protein, in under one second, unrivalled imaging performance for a CDD-based analyser.

Dyversity can acquire images of small amounts of fluorescently labelled protein so rapidly because it has a 90 micron resolution, 16-bit CCD camera. This provides Dyversity with the fastest capture time per channel for Cy dyes of any CCD system on the market today, and means it is an excellent alternative to a laser-based scanner.

Laura Sullivan, Syngene's Divisional Manager explained: "The advantage of using Dyversity is that you can change the imaging conditions to generate the exceptional results you would normally obtain from an expensive laser scanner. Any scientist wanting to accurately detect small quantities of proteins in 1D or 2D gels should look at Dyversity, as it is currently the fastest and most flexible imager for this application."

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Note to Editors

About Syngene

Syngene is a world-leading supplier of integrated imaging solutions for analysis and documentation of gel-based information. Syngene's systems are used by more than 10,000 research organisations and over 50,000 individual scientists world-wide and include many of the world's top pharmaceutical companies and major research institutes.

Syngene, founded in 1997 is a division of the Cambridge based Synoptics Group. The Group's other divisions, Syncroscopy and Synbiosis, specialise in digital imaging solutions for microscopy and microbial applications respectively. Synoptics currently employs more than 50 people in its UK and subsidiary operation in Frederick, USA.