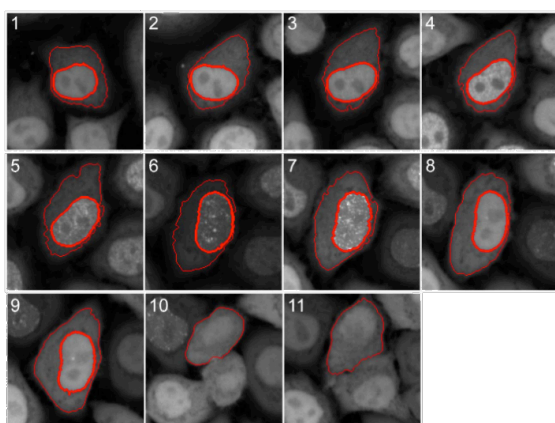


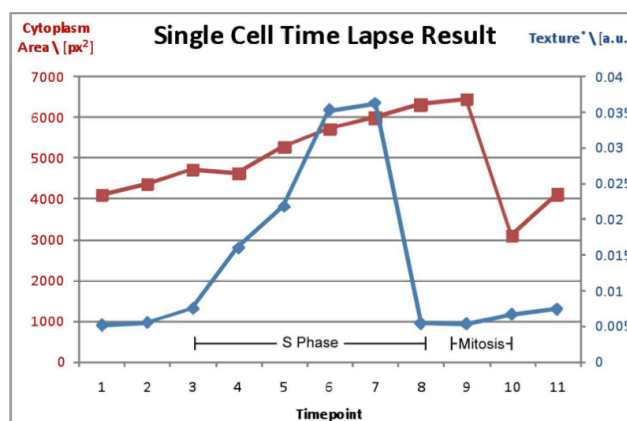
## ChromoTek introduces novel real-time cell cycle assay for HCA screening

Fluorescent Chromobodies<sup>®</sup> allow dynamic targeting and tracing of endogenous marker molecules in live cells and represent a versatile tool for cell biologists to monitor multiple parameters defining cellular pathways.

**Martinsried, Germany, April 18, 2011 / [www.pressebox.de](http://www.pressebox.de) /** - ChromoTek, a company specializing in bioimaging reagents, has launched the *U2OS Cell Cycle Chromobody*<sup>®</sup>, the first real-time HCA screening assay to monitor the complete cell cycle in live cells. The intracellular expression of the fluorescent *Cell Cycle Chromobody*<sup>®</sup> enables scientists to simultaneously analyze a set of different cellular parameters: cell size and morphology, nuclear morphology, progression of S phase (early - mid - late stage) and mitosis. This powerful assay enables screening of compounds such as cancer drugs for effects on the cell cycle and toxicity in one experiment. The *U2OS Cell Cycle Chromobody*<sup>®</sup> can be applied in early drug development and validation as well as in basic research.



*Cell Cycle Chromobody*<sup>®</sup> signal during the cell cycle. In G1 the Chromobody<sup>®</sup> signal is homogeneously distributed throughout the nucleus and cytoplasm. During S phase it accumulates in the nucleus and visualizes the formation of replication foci. In G2 the foci disappear and the cell divides (mitosis).



Automated evaluation of *Cell Cycle Chromobody*<sup>®</sup> signal to identify cells in S phase (blue). Measurement of the cytoplasmic area was used to identify cells rounding up and entering mitosis (red)

The *U2OS Cell Cycle Chromobody*<sup>®</sup> is a cell line stably expressing a small binding protein which targets and traces an endogenous cell cycle marker protein. In contrast to widely used fluorescent fusion proteins, the *Cell Cycle Chromobody*<sup>®</sup> provides information about the distribution and dynamics of the native factor. In addition, the *Cell Cycle Chromobody*<sup>®</sup> is not cytotoxic and does not affect normal cell function making it an ideal tool for the analysis of molecular processes in the cell in response to external factors such as drug candidates.

With the *Cell Cycle Chromobody*<sup>®</sup> ChromoTek introduces a product line for cell scientists who want to analyze cellular processes in real time and to detect dynamic protein-protein interactions in biomedical research and pharmaceutical compound screening. Further *Chromobody* products addressing other essential cellular pathways will follow soon.

**About ChromoTek:** ChromoTek is a German bioimaging company located in Martinsried, the heart of the biotech cluster of the Greater Munich Area. Founded in 2008, ChromoTek services more than 1,300 customers worldwide with research reagents for cell biology and proteomics such as the GFP-Trap<sup>®</sup>, the RFP-Trap<sup>®</sup> or the GFP-Booster. ChromoTek is continuously extending its product portfolio and provides research services to leading pharma companies.

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