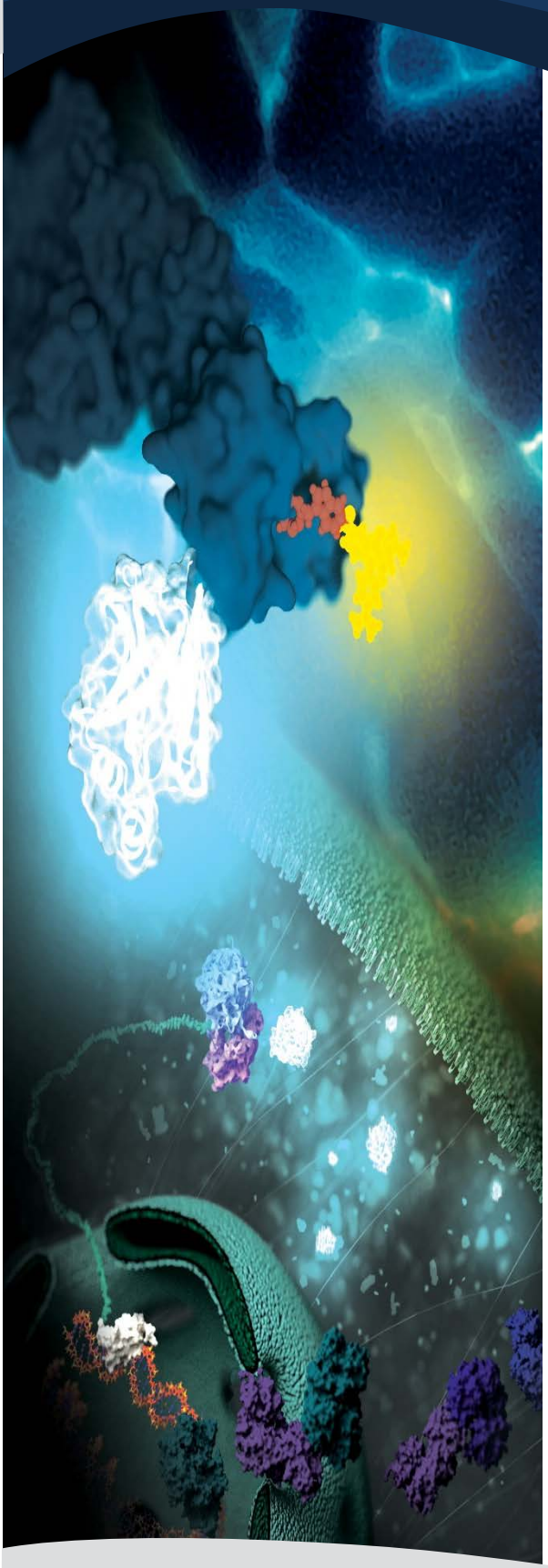
Wed., September 20th, 2017
9:30 AM – 10:30 AM
TMEC Building, Rm. 227
HMS Quad



Real-Time Cell Health Assays Reveal More Relevant Biology

Presented By Andrew Niles
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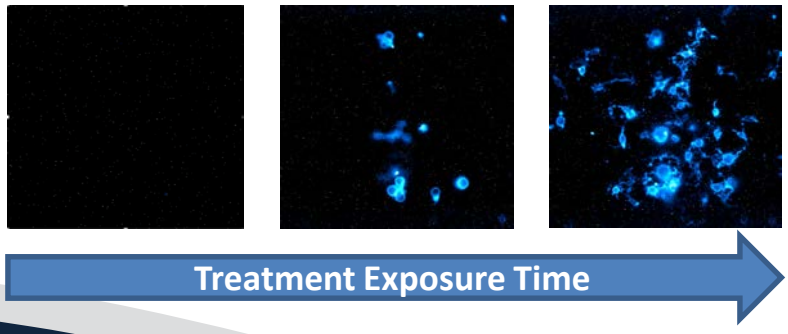
Promega Corporation.

Changes in *in vitro* cell health due to test compound contact proceed in a concentration- and time-dependent manner. Unfortunately, a majority of cell health assays configured to measure these biological responses are implemented only at arbitrary exposure end-points. At best, this practice provides a cumulative "snapshot" of the cells' biological status. Conversely, real-time methodologies provide a comprehensive, fine-resolution representation of the changes occurring in live cells over time which enables decision making about the timing of treatments or the use of other functional end-point assays. The ability to measure real-time change is particularly valuable for the analysis of cell death where changes in viability are highly dependent on treatment, molecular mechanism and cellular background. This presentation will provide an introduction to a new generation of sensitive, microtiter plate-based, live cell assays that allow the continuous measurement of different biomarkers of cell health and apoptosis. Last, we will demonstrate how these assays can be multiplexed with other meaningful orthogonal cell health measures to confirm putative mechanism of action and to extract previously hidden biology.



Questions?

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