Nikon BioStation CT for Hands-Off Stem Cell Screening

Stem cell technology is poised to revolutionize how we approach fields such as drug discovery and regenerative medicine. We are at a point where patient-derived pluripotent stem cells are being investigated as model systems for investigating a host of conditions, including Huntington’s Disease and various cancers. However, sterile handling, manipulation, and observation of stem cell cultures remains a difficult and expensive problem, even in a research setting.

The Nikon BioStation CT Cell Culture Observation System is intended to streamline this process by combining the culture and imaging environments. Accurate microscope-based measurements are made possible while maintaining stable physiological conditions. Specifically, the BioStation CT provides the following capabilities:

- **Automatic Image Capture**: including full-well imaging for a variety of plate formats, as well as phase contrast, fluorescence, and macro imaging of the entire plate.
- **Automatic Vessel Exchange**: with ultra-stable robotic transport arm. The BioStation CT holds up to 30 well plates or culture flasks (up to 75 cm²).
- **Dedicated CL-Quant Software**: including analysis modules for Scratch Assays, Lineage Analysis, Dendrite Detection, Colony Tracking, and more.

If you would like to learn more about the Nikon BioStation CT Cell Culture Observation System, please visit the product page on our website: www.microscope.healthcare.nikon.com/biostation-ct