



Detect cardiotoxicity earlier

without labels and without disrupting your cells

Many drug candidates fail at a late stage due to **cardiotoxicity**, which often become evident only after extensive and costly development.

Why a DHM[®] for this application?



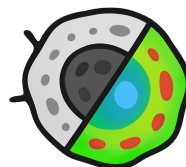
Label-free

No marker required for non-perturbing measurement



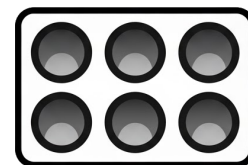
Fast

200 fps for precise cardio beating sampling



Multimodal

Correlate ion and mechanical movement

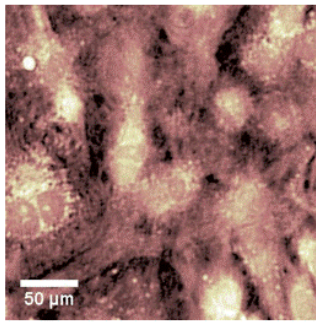


Automation

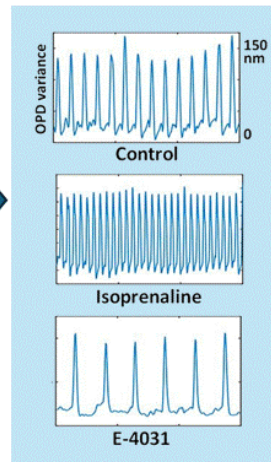
Increase throughput with multi-well plates

Digital Holographic Microscopy (DHM[®]) provides a direct, label-free way to **quantify** cardiomyocyte **beating**, enabling earlier and non-invasive detection of drug induced dysfunction.

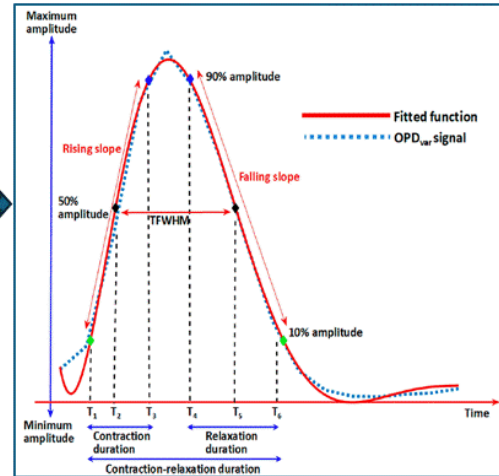
Label free cardiomyocyte imaging



Readout upon drug treatment



Quantification of mechanical parameters



Why does mechanical motion matter?

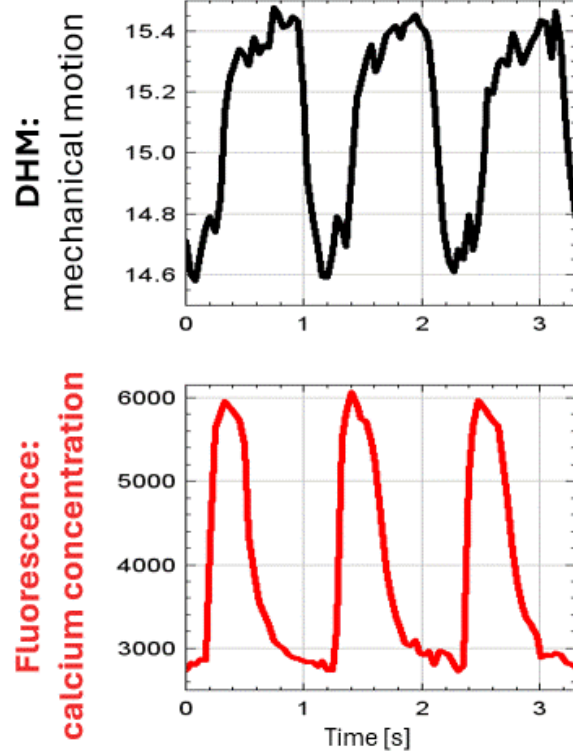
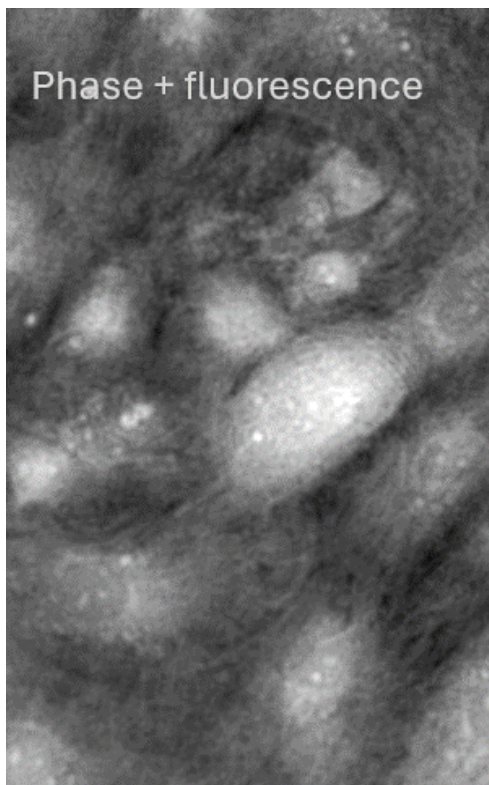
DHM measures **mechanical movement** through [quantitative phase imaging](#). It captures each contraction/relaxation cycle in real time and extracts **key metrics** such as beat amplitude, contraction and relaxation kinetics, and beat irregularity. These parameters cannot be obtained from a simple end-point measurement..

DHM supports **earlier**, more **reliable cardiotoxicity assessment** and integrates easily into existing screening pipelines.

Learn more and read our customer's publications

Increased sensitivity with Multimodality

When combined with [fluorescence](#), DHM links **mechanical motion** to **calcium fluxes** for increased sensitivity. This dual readout improves detection of subtle drug induced effects on excitation/contraction coupling before viability changes occur.



Ideal solution for novel drug development

DHM's non-invasive, high-speed analysis is vital for **early cardiotoxicity screening in pharma R&D**, improving safety and reducing costly late-stage failures.



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[Lyncée Tec](#) is proud to have joined [Park Systems](#), the global leader in nanometrology.

This synergy drives our commitment to pioneering nanoscale metrology systems and expanding access to advanced microscopy worldwide.

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