

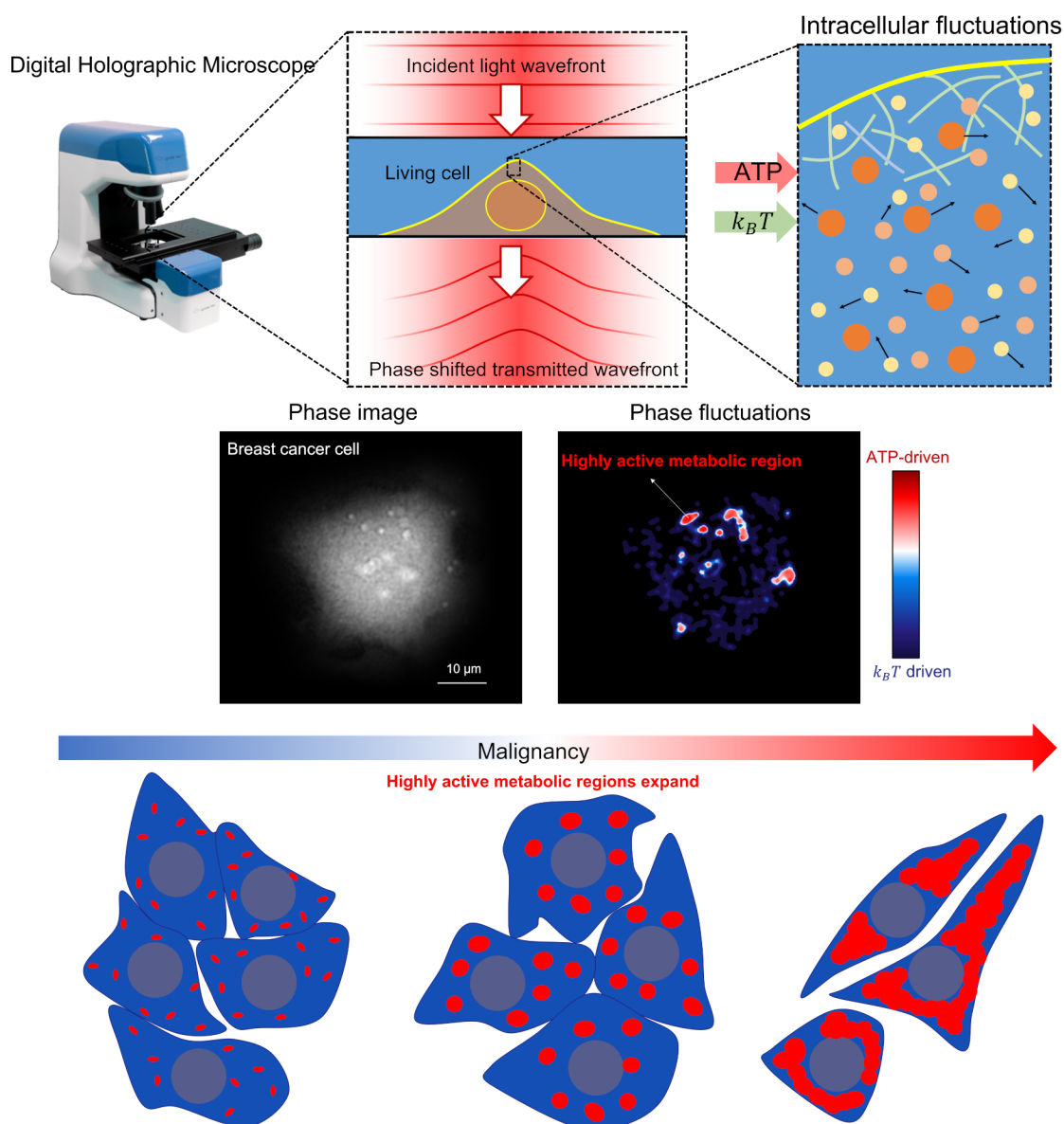


Lyncée tec

Early Breast Cancer Prediction with Lyncée Tec's Microscope

New seminal publication in cancer research

The ability to visualize cellular metabolic activity with **high spatial resolution and sensitivity** is essential, as metabolic dysregulation plays a pivotal role in cancer progression and metastasis.



Thanks to DHM technology, the localization of cellular metabolic activity “hotspots” could be **correlated with the malignancy of cancers** for the first time, as demonstrated in a publication by the [Bionanomechanics group](#).

This method paves the way for substantial clinical advancements. By enabling a more precise phenotyping or cellular characterization, this technique can **improve early cancer detection**, disease progression assessment, and the **personalization** of treatments.

[Link to the peer-reviewed publication](#)

Why a DHM[®] for this application?



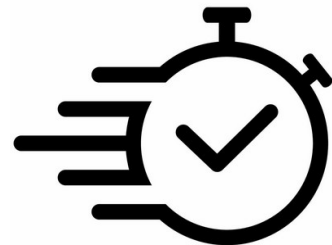
Label-free

No marker required
and non-invasive



Precise

0.1 pg precision in
dry mass
quantification



Fast

Only **0.5 ms** to
acquire a single
image

→ **versatile instruments to answer all your [experimental needs](#)**

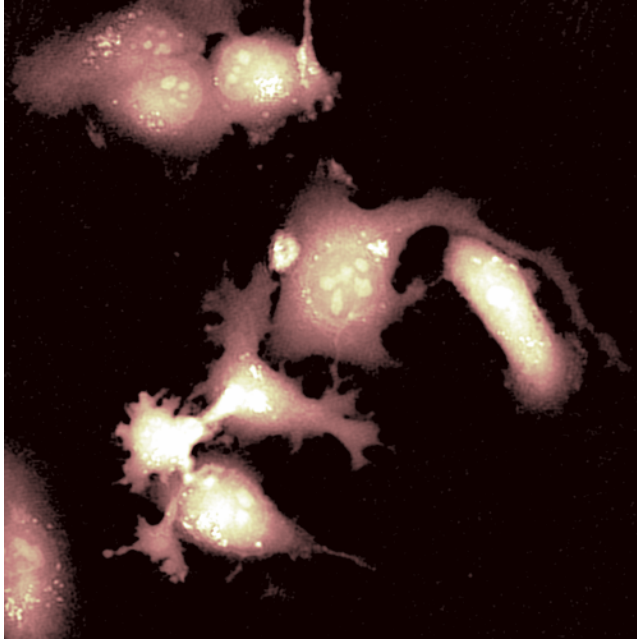
An innovative workhorse for research!



"DHM has opened us a whole new understanding of intracellular stochastic dynamics and energetics. We are very proud to have done our part in supporting this cause."

Álvaro Cano Tortajada, Javier Tamayo
Bionanomechanics group

How does it work?



DHM[®] (Digital Holographic Microscopes) measure the phase of light which contains information on:

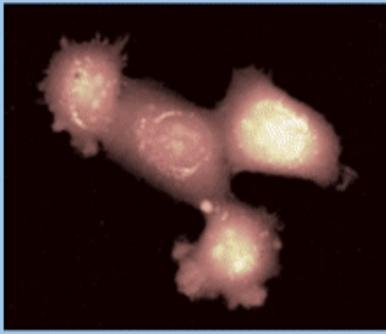
- **thickness** → shape and morphology
- **dry mass** → intracellular content

These two endogenous **bio-markers** are affected by the **health status** of the cell and its undergoing **bioprocesses**.

The science behind

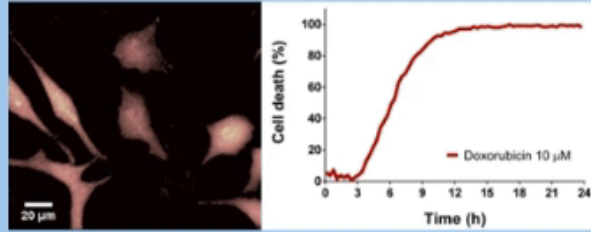
Find your DHM[®] application

Morphological studies



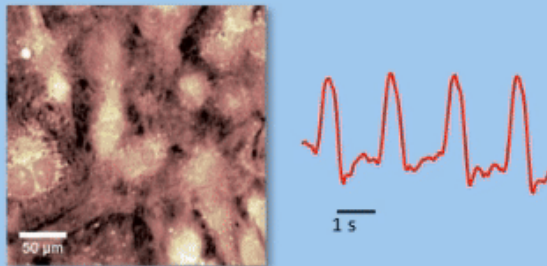
Membrane ruffling

Cytotoxic assays



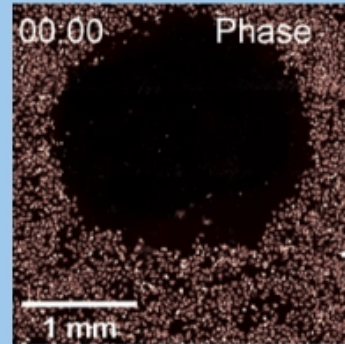
HeLa cell death quantification in presence of doxorubicin

Cell dynamics



Cardiomyocytes beating cycle quantification

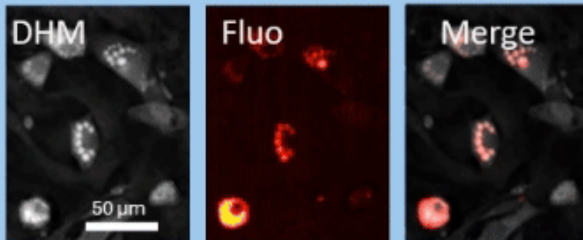
Migration/proliferation



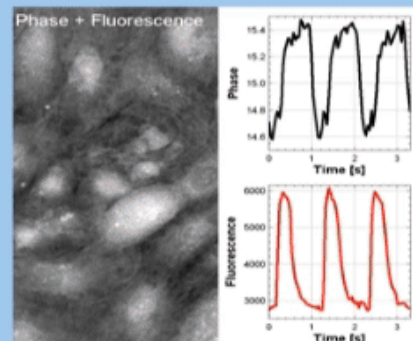
Cell migration inhibition with Cytochalasin D

Combine with fluorescence

- ✓ Colocalize specific structures



- ✓ Monitor dynamic ion concentration changes



More applications examples



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live demo**

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Lyncée commits to [plant trees](#) through the non-profit
organization [OneTreePlanted](#)



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