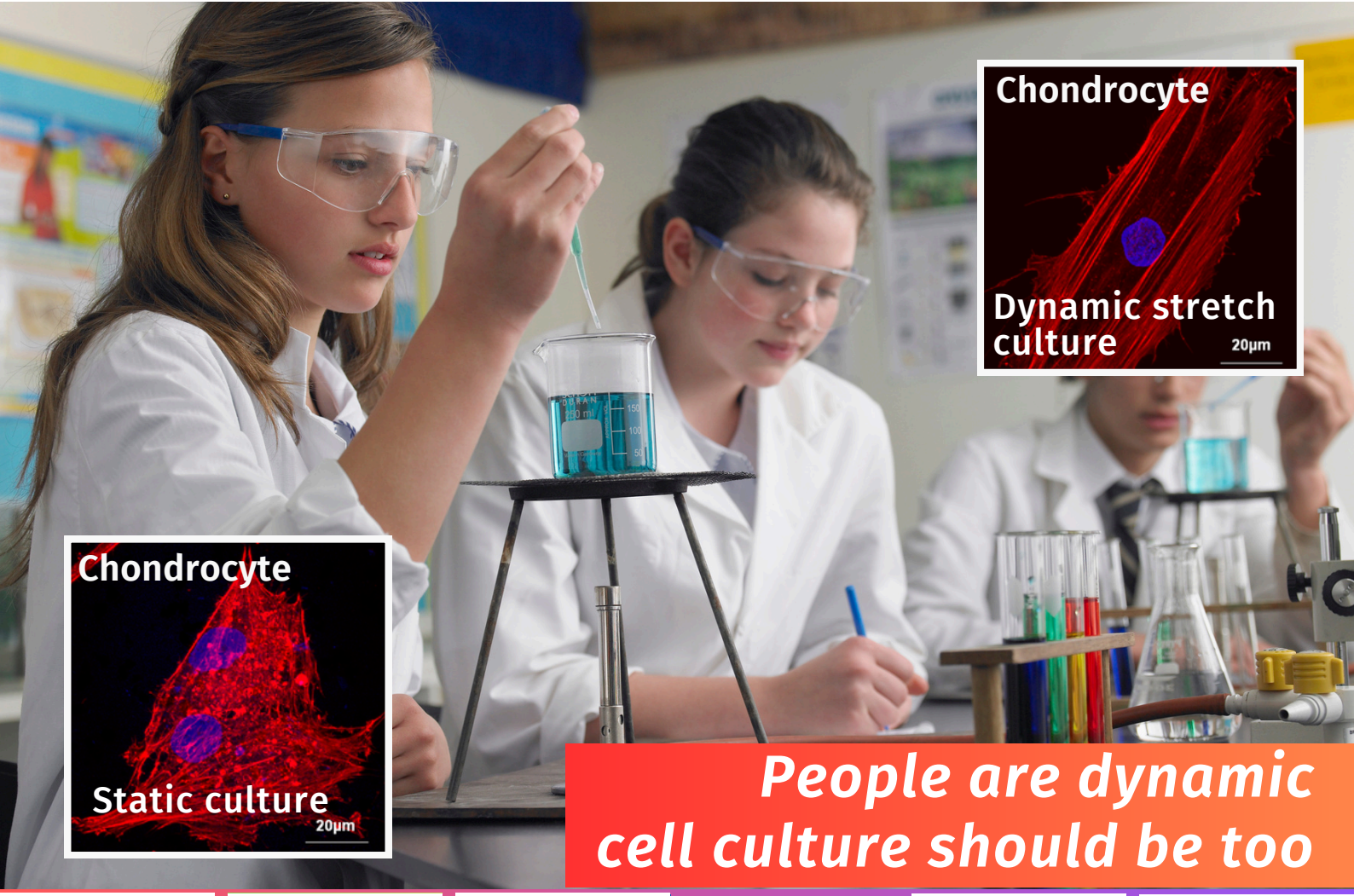
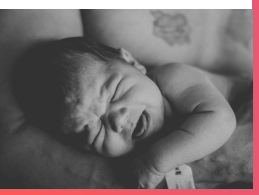
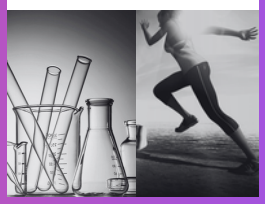
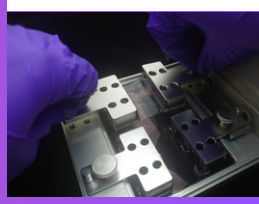


People are dynamic cell culture should be too

Life Dynamic	1950s	2026s	Animal testing	Physics and chemistry	Dynamic Culture
	 2D Static Culture	 2D Static Culture ?			

Life is Motion
Why is The Cell Culture Lab Standing Still?

For a century, we've taught biology in 2D stillness—but life was never meant to be flat. When we confine cells to static plates, we limit our students' understanding of reality.

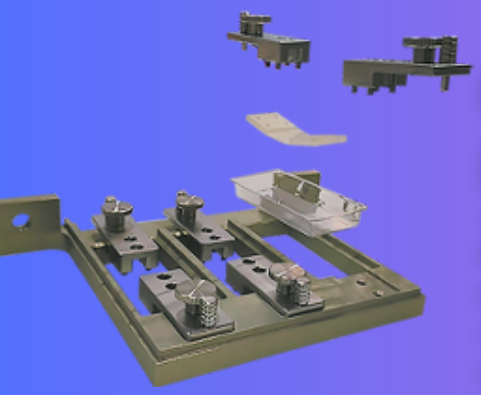
At ATMS, we don't just upgrade tools; we change the physical rules of discovery. By bringing the body's natural forces into the lab, we bridge the gap between textbook theory and living truth.

- Break the 2D Barrier: Move beyond the plastic dish to the dynamic reality of life.
- Empower Modern Ethics: Lead the transition from animal testing to high-fidelity human models.
- Educate the Visionaries: Give the next generation the "physical language" of the future.

This isn't an upgrade—it's a new biological era. Stop teaching history. Start culturing the future.

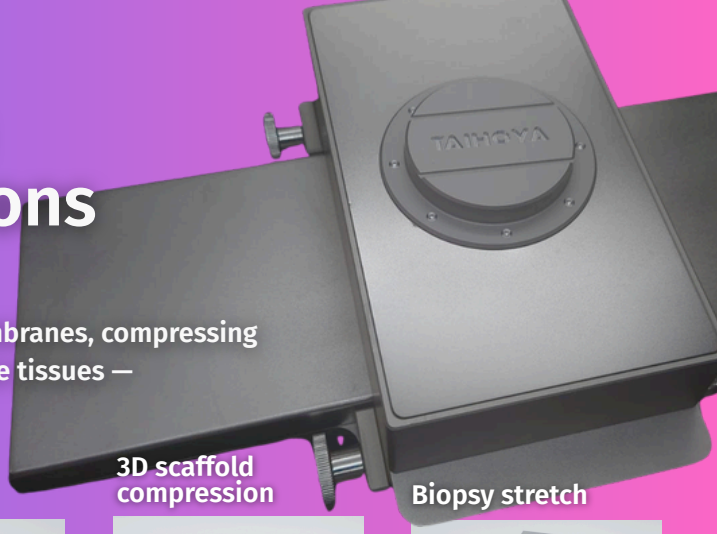
taihoya *It is time to usher in the future*

Dynamic Culture

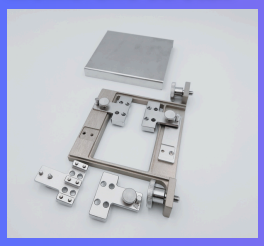


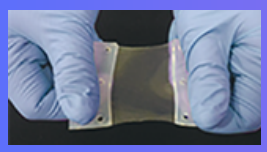
One System Multi Functions Zero Hassle

Whether you're stretching membranes, compressing 3D scaffold, or working with live tissues — ATMS does it all, effortlessly.

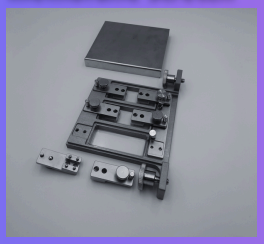


Large PDMS membrane stretch

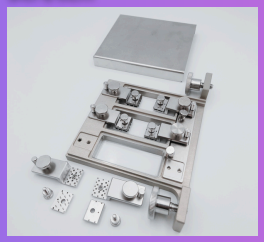




Small PDMS membrane stretch

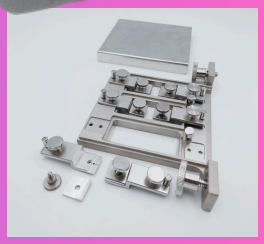


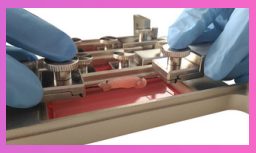
3D scaffold stretch



3D scaffold compression

Biopsy stretch





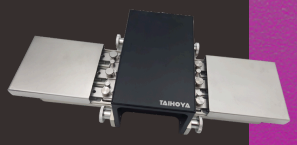
Dynamic Efficient Cost-Effective

Read More

Cyclic Stretch Triggers VSMC Overgrowth via cPLA2 Activation.

115X

The secret to the remarkable 115-fold enhancement in extracellular vesicle yields.



doi:10.1002/advs.202411559 PMID: 39173665

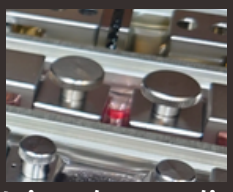
The model is capable of stretching cells on a PDMS membrane.

PMID: 35450439

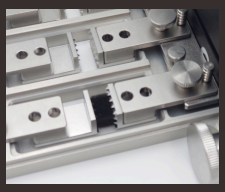
The model enables the stretching of biomaterials containing cells.

doi:10.1016/j.matdes.2020.108982

The model is capable of stretching living tissue samples.



doi.org/10.1371/journal.pone.0204603 PMID: 32409092



The model is capable of compressing biomaterials containing cells.

Stretching induces a columnar transition in MDCK epithelial cells via Piezo1.

doi10.1016/j.celrep.2025.115662

Electrical and mechanical stimulation promotes chondrogenesis of stem cells.

PMID: 37523499

STRETCH VS. ANIMAL TESTING

Joint Overload Study: 24h Stretch Closely Matches 6w Animal Results PMID: 39710977

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