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TECHNICAL OVERVIEW
LunaX™ 3D Cell Culture Platform

Tunable extracellular matrix platform for human-relevant drug discovery.

Tune ECM stiffness with a *flash of light*.

Hardware, software and consumables in one reproducible system, taking you from cells to physiologically relevant 3D tissue models in under 15 minutes.



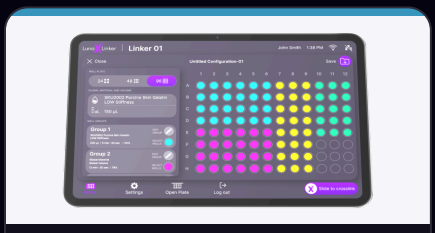
WHAT IT DOES Forms tunable, reproducible 3D hydrogel matrices at a precise stiffness (0–25 kPa), so cells behave like they do in real tissue.

PLATFORM COMPONENTS



HARDWARE
LunaX™ Crosslinker
Benchtop instrument that photocrosslinks each well with cytoLED™ visible light. 24/48/96-well, 1–5 min, >95% cell viability.

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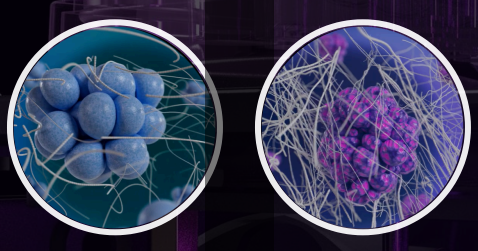
SOFTWARE
Gelomics Cloud
AI-guided experiment design and stiffness programming, on the touchscreen and in the cloud. Set a target stiffness; LunaX hits it.

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CONSUMABLES
LunaX™ ECMs
Ready-to-use, photocrosslinkable ECM kits with freeze-dried photoinitiator. Tunable 0–25 kPa, room-temperature, RGD + MMP-degradable.

= **Physiologically relevant 3D models with tunable mechanics and no lot-to-lot variability.**



PHOTOCROSSLINKING IN ACTION

From liquid to 3D gel in one flash of light.

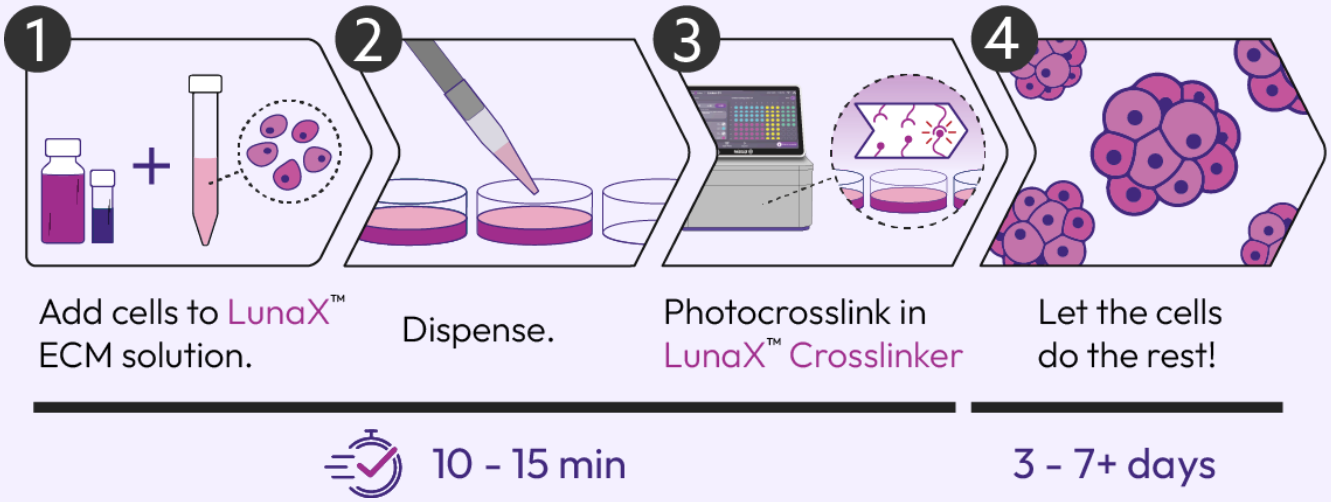
A pulse of visible cytoLED™ light polymerises the liquid LunaX™ ECM around your cells in 1 to 5 minutes. Dial the stiffness to recreate anything from healthy tissue to late-stage disease.

300+	23+	35+	ISO 9001
CUSTOMERS	COUNTRIES	PUBLICATIONS	2015 CERTIFIED

HOW IT WORKS

From cells to 3D model in four steps.

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BUILT TO FIT YOUR EXISTING WORKFLOW

THE LUNAX PLATFORM

Plan · Encapsulate · Crosslink · Culture

→

WORKS ALONGSIDE

Imaging · Immunofluorescence · Metabolic assays · HTS

LunaX slots into the workflow you already run. Consistent, precisely tuned models give you cleaner, more comparable data with less repeat work, and LunaX ECMs are optically transparent and compatible with standard microscopy, plate readers and high-throughput systems, so your readouts stay exactly as they are.

WHY RESEARCHERS CHOOSE LUNAX

- Tunable stiffness
- Consistent quality
- Protease degradable
- Easy & fast (<15 min)
- Bio-compatible
- Bioactive motifs

THE LunaX™ ECM FAMILY

CoreMatrix	Flagship, broad cell compatibility and automation-ready.
OrganoMatrix	Laminin-rich, for patient-derived organoids and iPSC models.
TissueMatrix	Mesoderm-derived cells; EMT, invasion and cancer studies.
PureMatrix	Ultra-low endotoxin, GMP-grade option for translational work.
MultiMatrix	Endoderm and ectoderm lineages: liver, lung, neural, epithelial.
+ ACCESSORIES	Cell Recovery Kit · LAP Photoinitiator

See LunaX™ in your lab.

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