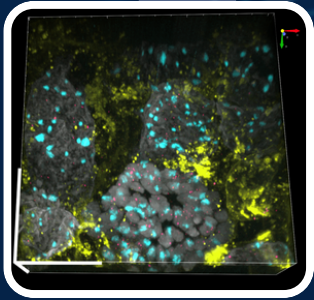
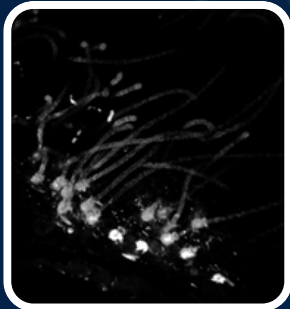


Streamlined expansion tools and services that empower researchers and labs to quickly master complex nano-scale imaging with ease.

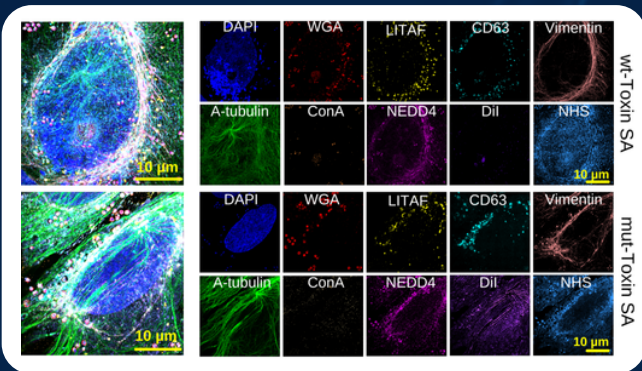


Detect ultrastructural changes and reveal 3D cancer morphology early.

Achieve 15 nm resolution with Magnify-SOFI on conventional microscopes.



View multiplexed molecular labels with nanoscale ultrastructural detail



Compatible with most light microscope platforms

About

Magnify Biosciences delivers a complete 3D nano-imaging solution that unites a next-generation sample preparation kit with expert imaging services. Our technology uncovers previously inaccessible biological details, enabling researchers to visualize complex structures with unprecedented clarity and drive deeper scientific discovery across disciplines.

Contact

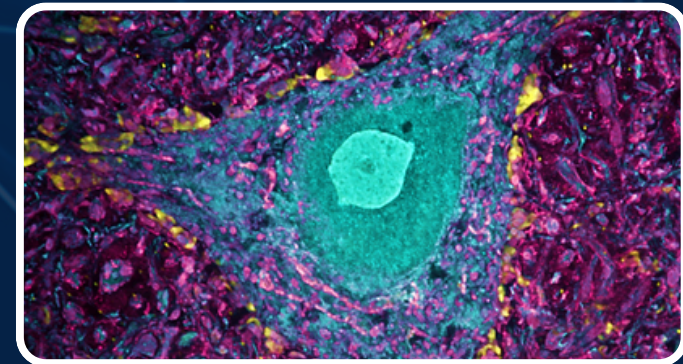
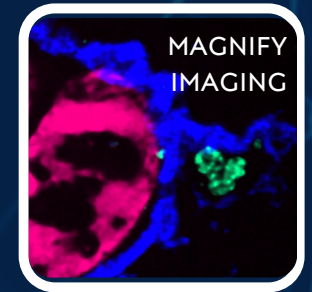
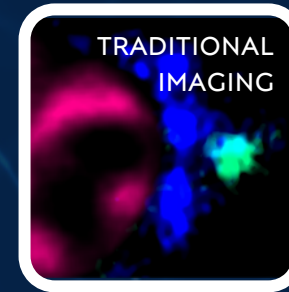


<https://magnifybiosci.com>
info@magnifybiosci.com



MAGNIFY BIOSCIENCES

DEMOCRATIZING ACCESS
TO NANOIMAGING



Synapse typing in Alzheimer's and Parkinson's Disease

**WE ENABLE LOW COST,
HIGH RESOLUTION IMAGING
FOR PRECISION MEDICINE.**

Our Technology

	Magnify	Previous ExM
Biomolecule Retention	✓ Universal anchoring for DNA, RNA, proteins, lipids in one step	✗ Specific anchoring Multiple anchoring steps
Expansion Factor	✓ Up to 11x in one expansion round	✓ Up to 4.5x in one step; Up to 25x, two rounds
Signal intensity	✓ Post-expansion staining better preserves signals	✗ Pre-expansion staining gets bleached and diluted
Ease and Time of Protocol	✓ Simple, <1 day	✓ Complicated, 3-10 days
Automatable	✓ Easy and fast steps automatable	✗ Too convoluted to automate
High Content Imaging	✓	✗
Broad Fixation Compatibility	✓ Culture, Suspended cell, Organoid, PFA-fixed tissue, archival FFPE Brain, Kidney, Retina, Breast, Prostate, Lung, Liver, Bladder, Colon, Heart, Skin, Muscle, Pancreas, Spleen, Lymph nodes	✗ Culture, Suspended cell, Organoid, PFA-fixed tissue
Validated Organs	✓	✗ Brain, Kidney

Our patent-pending technology involves embedding a biological sample in a durable hydrogel, which retains nucleic acids, proteins, and lipids without separate anchoring. The hydrogel swells in water, expanding the sample up to 11 times, enabling ~25 nm resolution imaging on standard optical microscopes with 280 nm diffraction-limited lenses.

- Z. Cheng, et al., *Advanced Science* 2023, 2302249.
- A. Klimas, et al, *Nature Biotechnology* 2023, 41, 858-869
- L. Shi, et al, *Advanced Science*, 2022, 2200315.

★★★★★

"With Magnify, we've bypassed the tedious method development stage when adopting expansion microscopy in our lab. This has allowed us to achieve exciting results for our publication in a fraction of the time, enabling us to visualize nanoscale structures that were previously inaccessible, with the precision and resolution needed for our research goals."

Dr. Yang Liu, Professor, Beckman Institute, UIUC

★★★★★

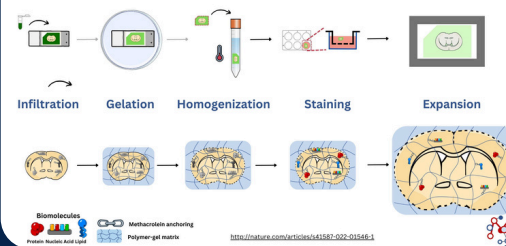
"Magnify's technical team collaborates closely with us, not just to solve challenges, but to customize solutions that align with our specific research goals. This partnership has been especially valuable in navigating complex and less-defined projects, making Magnify a dependable partner in achieving successful outcomes, regardless of the research challenges."

Dr. Bo Jing, VP Genome Design, Replay Bio

Magnify Kit



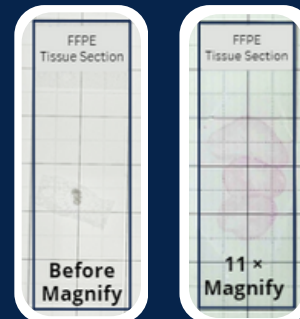
HOW IT WORKS



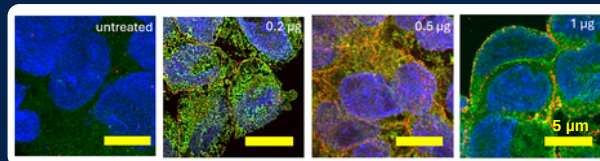
Magnify Service

Slide Mounting Service

Magnify Biosciences provides specimen mounting on scanner compatible slides using Magnify-validated antibodies and labels.



Example Drug Discovery Service

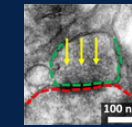


Magnify demonstrates the biologics' ability to restore the membrane localization of essential proteins in a dose-dependent manner.

Applications

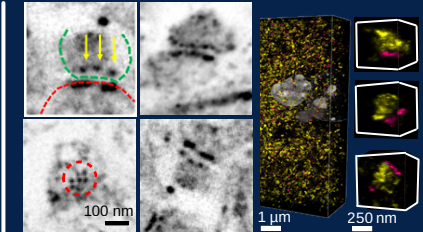
Case Study: Neuroscience

Electron Microscopy



Synapse ultra-structure (no molecular specificity)

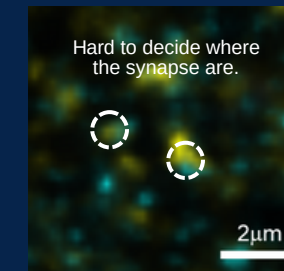
Magnify with Nikon CSU-W1



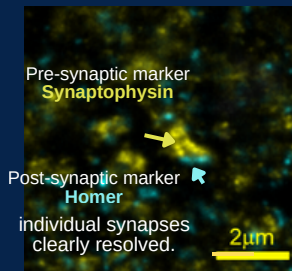
Synapse ultra-structure 3D molecular interactions of synaptic markers

-Magnify

+Magnify



Hard to decide where the synapse are.



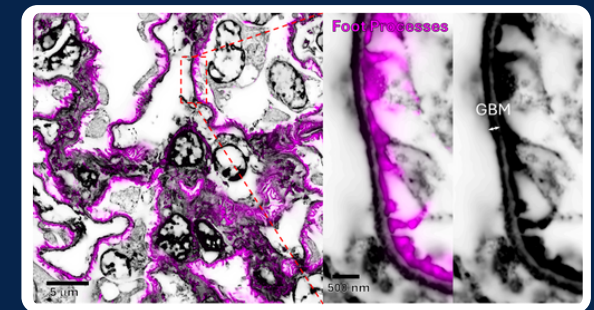
Pre-synaptic marker Synaptophysin

Post-synaptic marker Homer

individual synapses clearly resolved.

Magnify significantly improves the visualization of critical synaptic proteins, providing a more detailed and comprehensive view of synaptic organization and neural connectivity. Imaging system: **Nikon CSU-W1 spinning disk confocal**

Case Study: Renal Pathology



Magnify empowers super-resolution microscopes, achieving CLEM-like quality with <10 nm resolution and reveal critical nanoscale changes of renal diseases (Imaging system: **Nikon AXR**)