

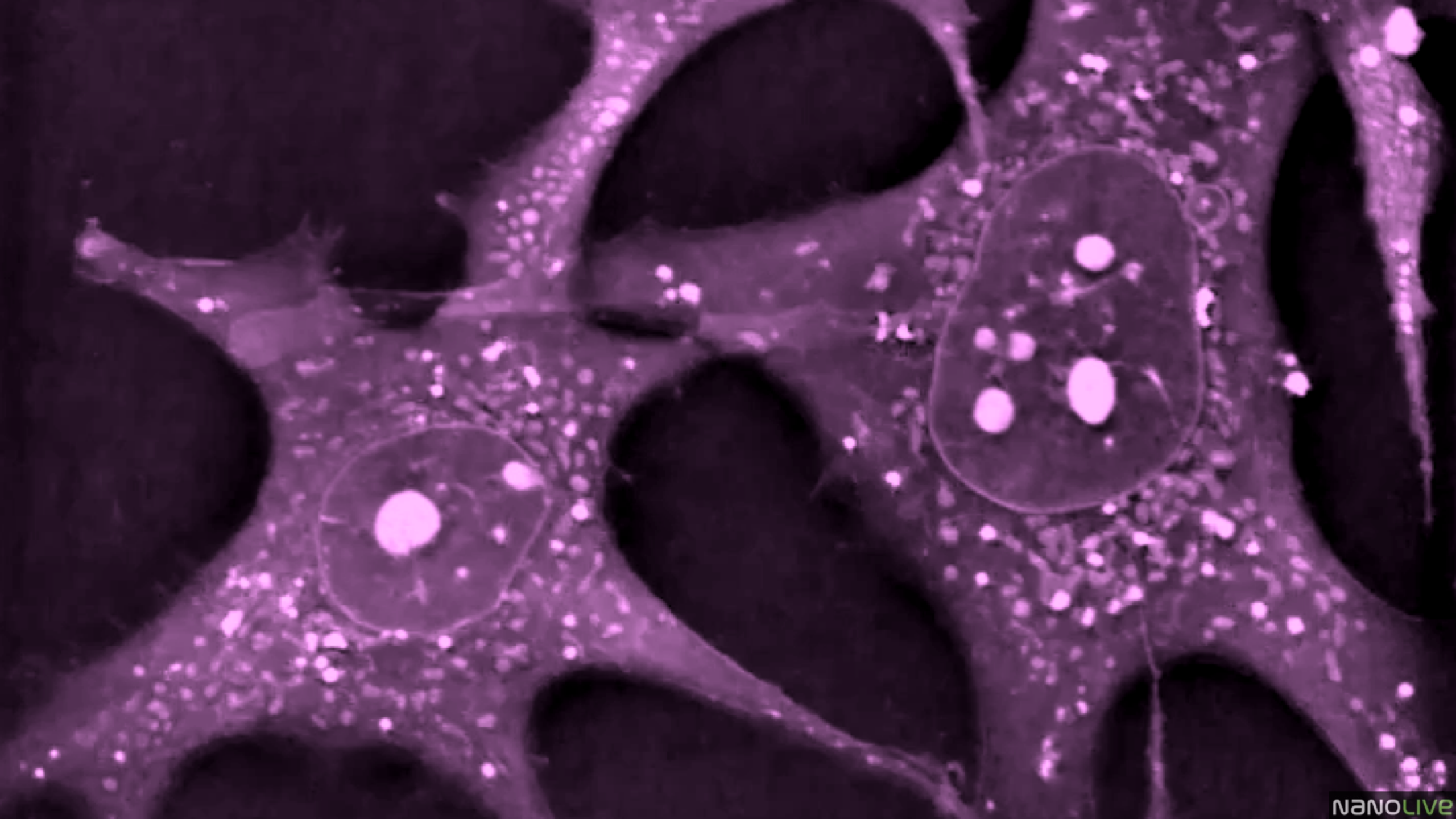


panluminate

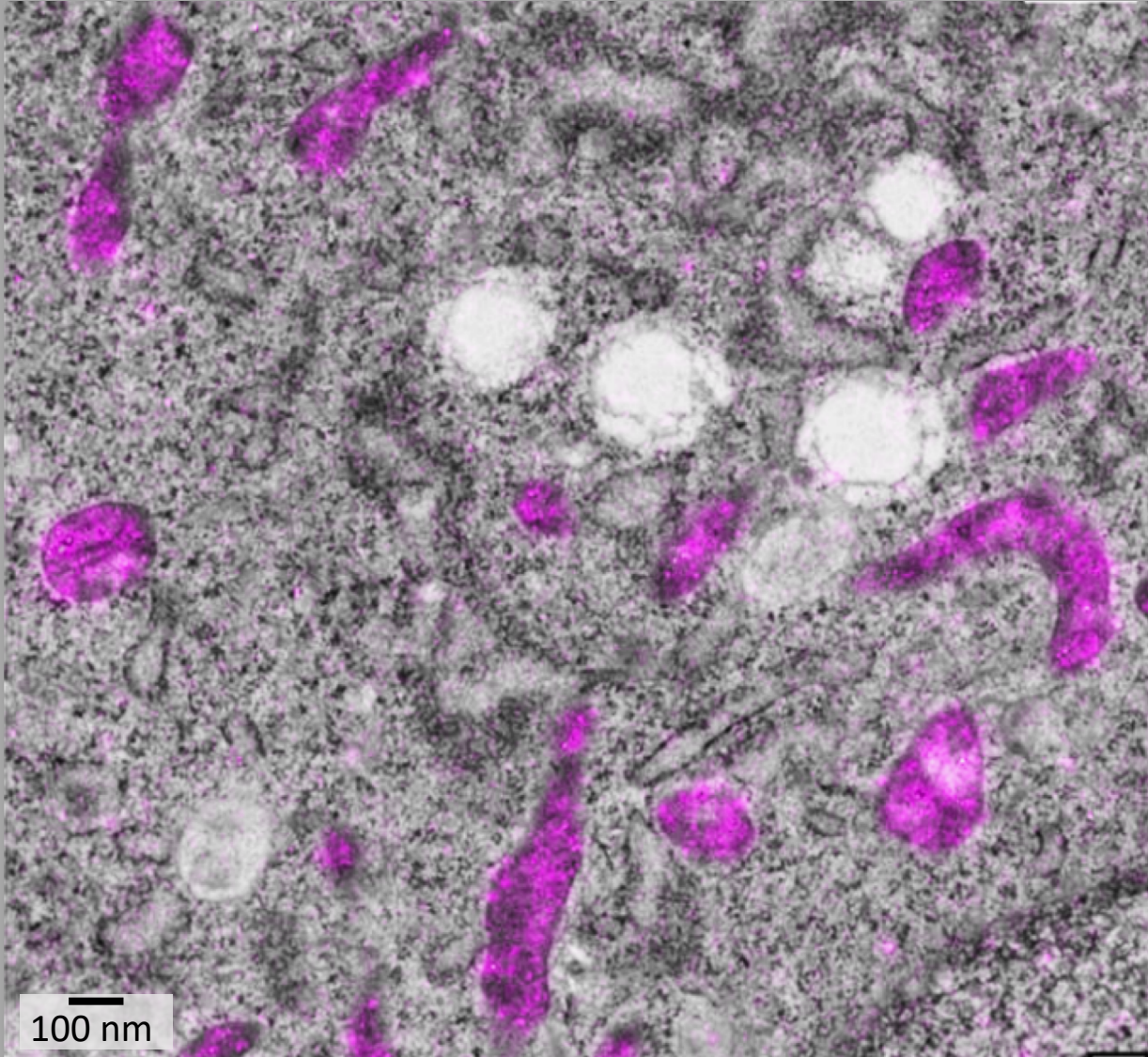
Changing the way biologists see the world

Yale Innovation Summit

05.18.21



CLEM MICROSCOPY

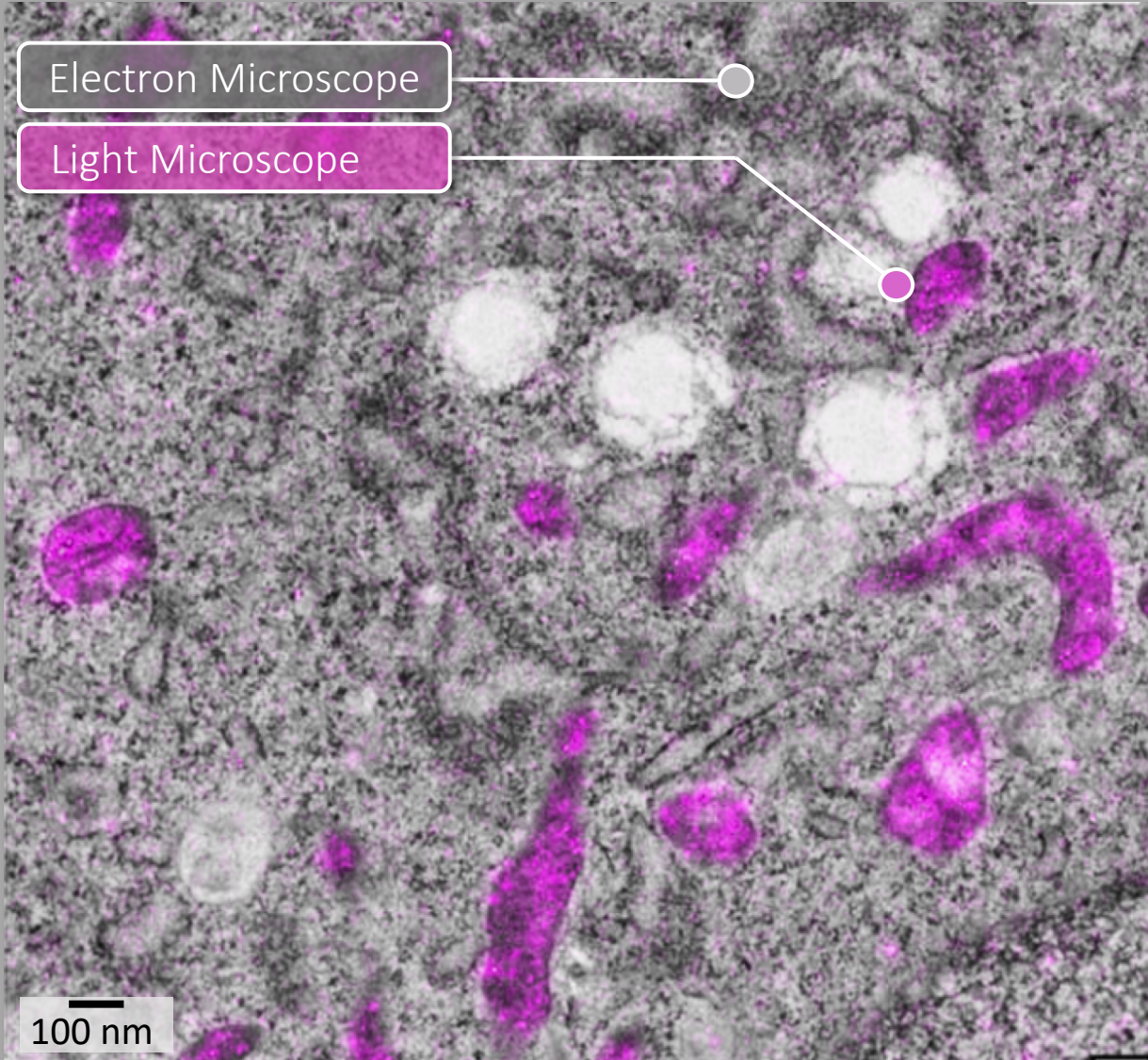


CLEM

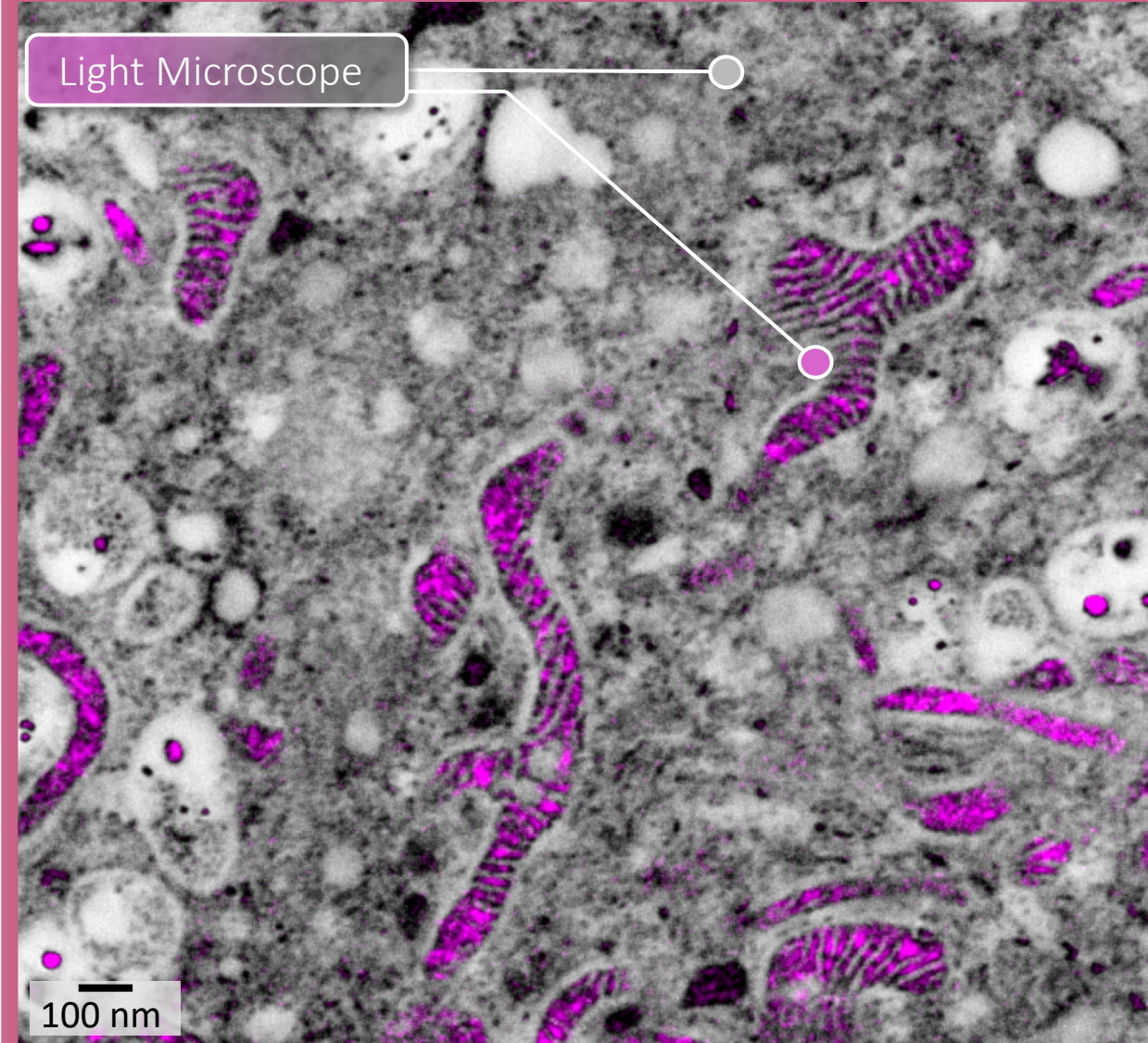
(CORRELATIVE LIGHT AND
ELECTRON MICROSCOPY)

IS THE GOLD
STANDARD OF
CELLULAR
MICROSCOPY

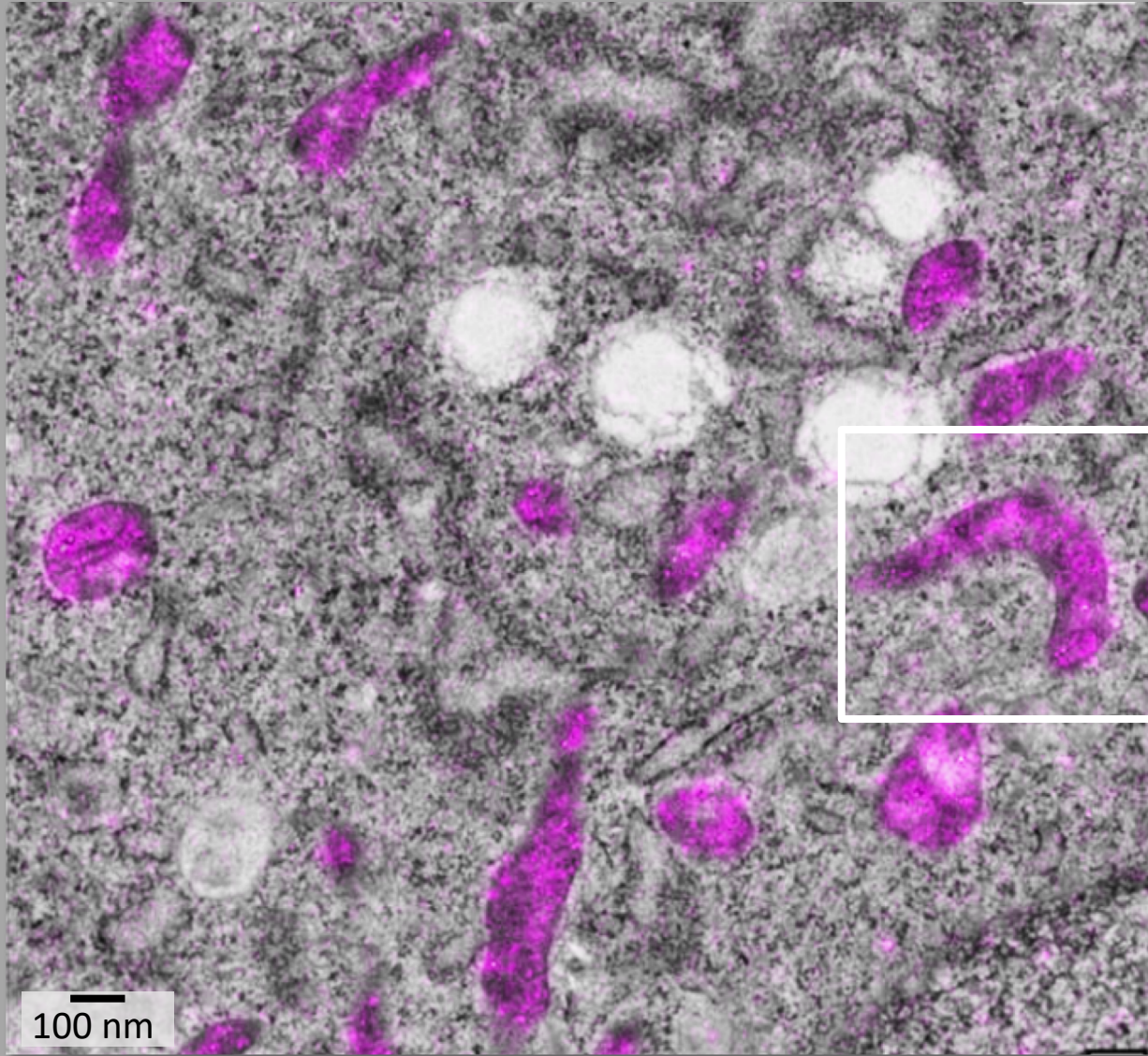
CLEM MICROSCOPY



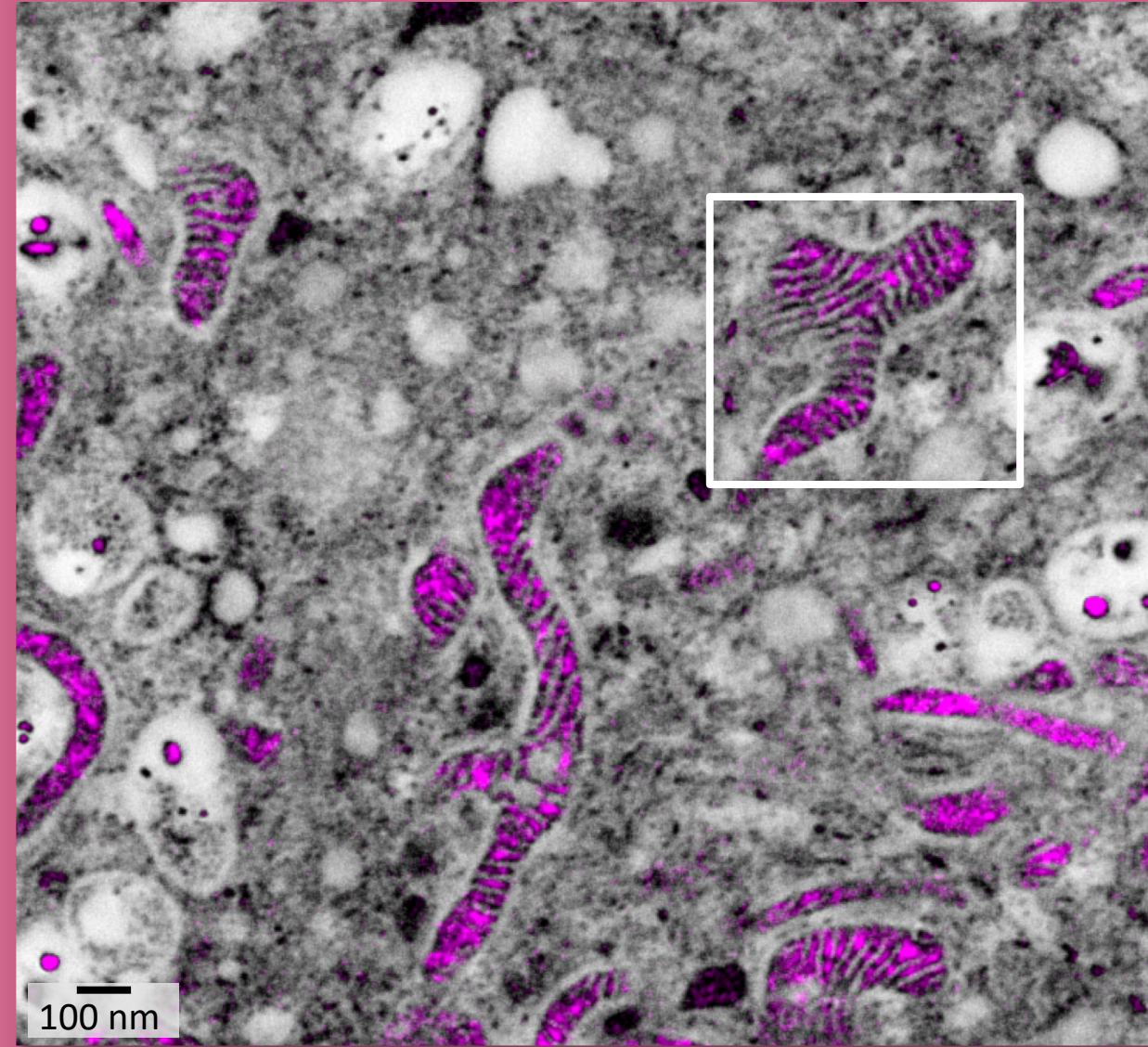
PANLUMINATE MICROSCOPY



CLEM MICROSCOPY



PANLUMINATE MICROSCOPY



CLEM MICROSCOPY

<100 worldwide

\$ 5 M hardware

7-10 days processing

\$ 10,000/sample

PANLUMINATE MICROSCOPY

>25,000 worldwide*

Uses existing hardware

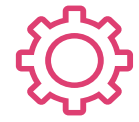
8 hours processing

\$ 100/sample

Customer enthusiasm

*Estimated high-end microscopy applications

PANLUMINATE IP IS PATENT PENDING



OUR PROPRIETARY TECHNOLOGY COMBINES

1. 20-fold linear sample expansion
2. Bulk (pan) labeling of proteins by a general chemical reaction



PANLUMINATE IS TEAM OF YALE SCIENTISTS AND BUSINESS EXPERTS



Ons M'Saad
Co-founder and CEO



Joerg Bewersdorf PhD
Co-founder and Advisor



Javier Sanchez Cortes
Business Lead



Thomas Friedlander MBA
Business Advisor



James Locker MBA
Business Advisor

FROM PRODUCT TO PLATFORM

PRODUCT

2021

\$ 100 M

A sample preparation kit priced at \$500 to be distributed to academic and biotech research labs



SERVICE

2023

\$ 500 M

A CRO sample prep and image processing service targeting the pharmaceutical industry



PLATFORM

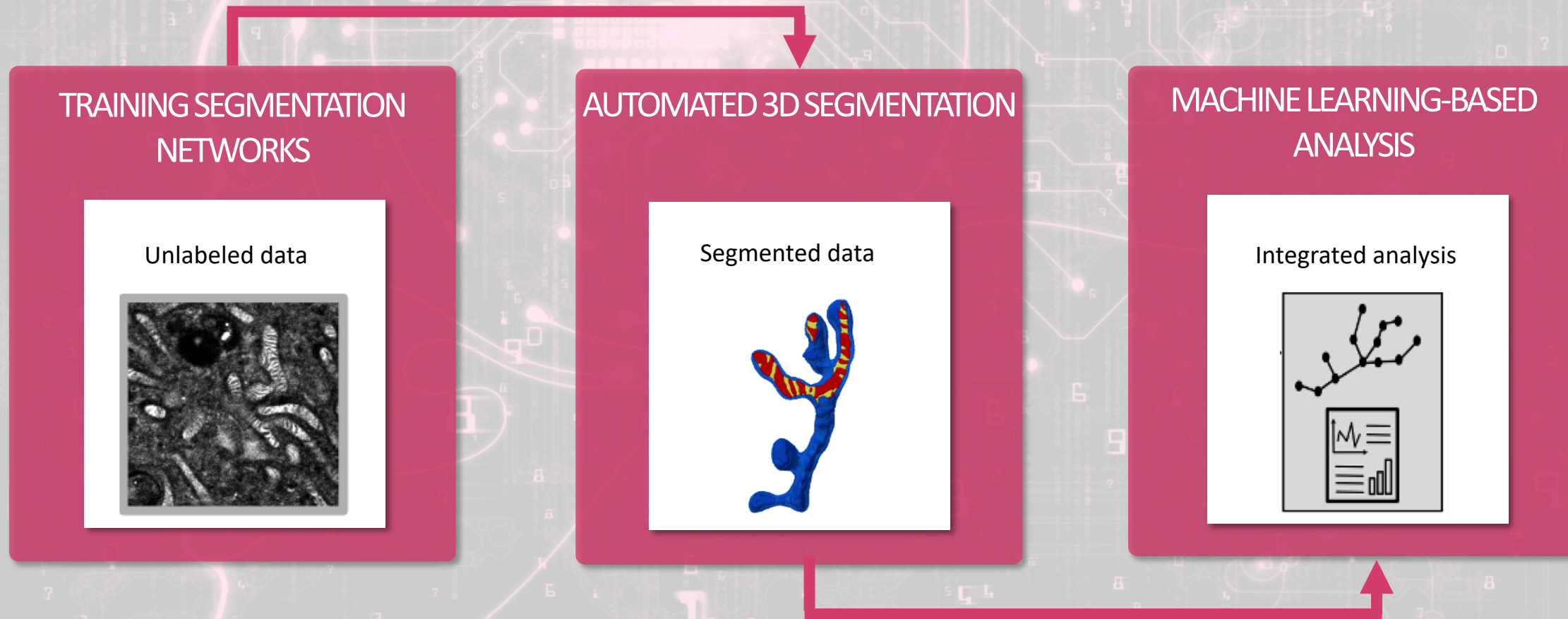
2025

\$ 1B

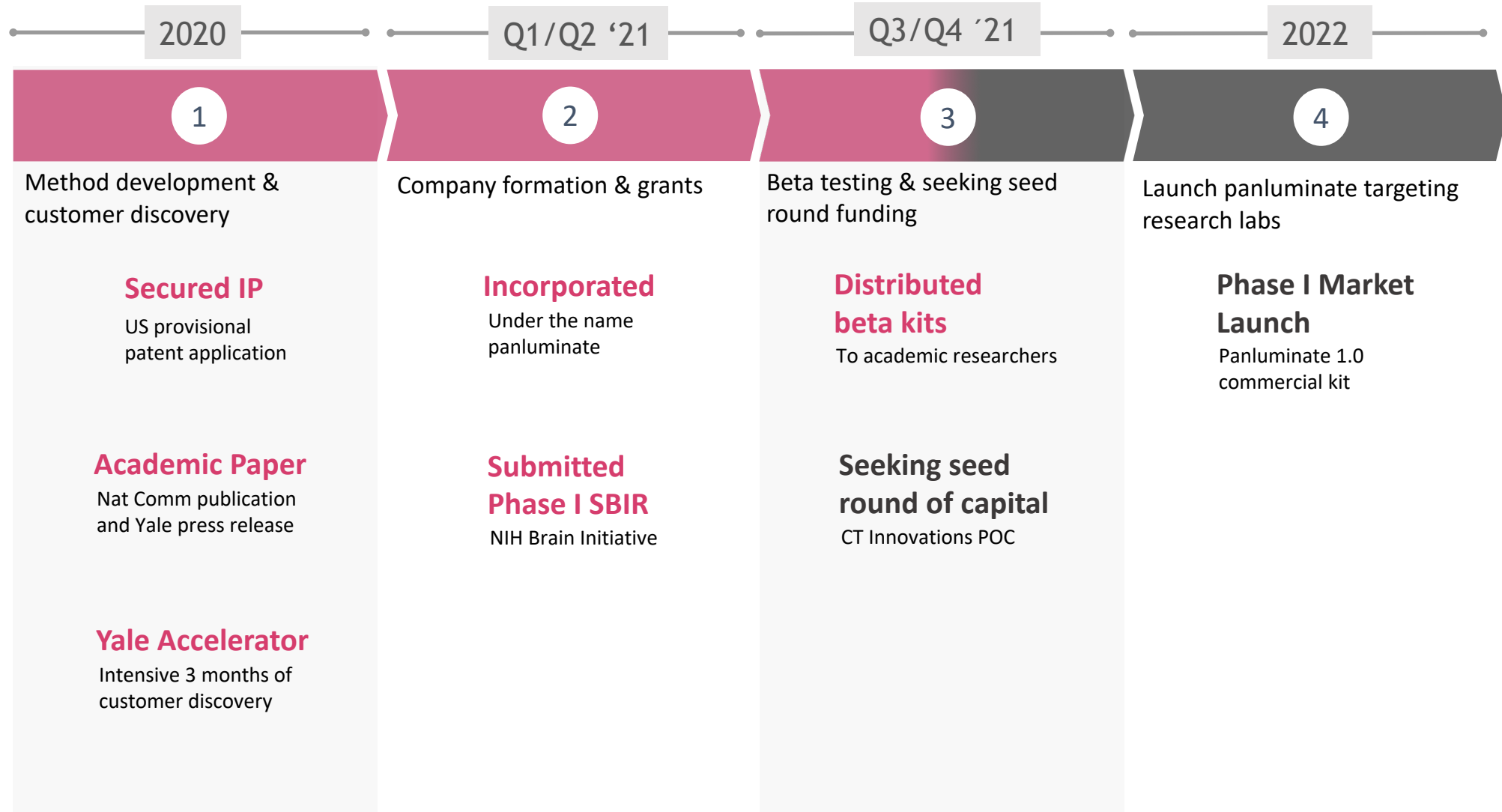
A platform including 100x faster microscopes, proprietary AI software, and data analytics



PANLUMINATE ENABLES DEEP LEARNING IMAGE ANALYSIS



PANLUMINATE IS AN EARLY-STAGE VENTURE



OUR REVENUE MODEL IS PROMISING

	Clients	Kits	Gross Revenue	Net Revenue
Year 1	250	3,000	\$ 1,149,000	\$ 675,000
Year 2	2,000	24,000	\$ 10,312,000	\$ 9,590,000
Year 3	8,000	96,000	\$ 41,648,000	\$ 40,088,000
Year 4	23,400	281,000	\$ 122,479,000	\$ 122,780,000
Year 5	25,400	307,000	\$ 133,000,000	\$ 130,814,000

Panluminate will change the way we see the world



Medical Industry

panluminate microscopy will lead to better disease diagnostics and new medical cures



Space Industry

panluminate microscopy can be used to examine human and microbial specimen at nanometer resolution



Biological Research

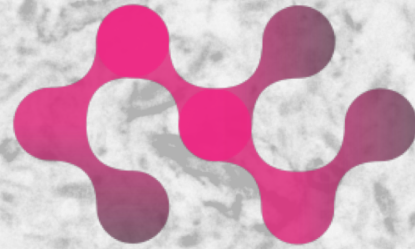
panluminate microscopy will lead to new biological discoveries including new disease mechanisms



Forensics & Biodefense

panluminate microscopy can be implemented at laboratories without sophisticated imaging machinery





panluminate

Changing the way biologists see the world

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