

Chip-based high-throughput optical nanoscopy for life sciences and pathology

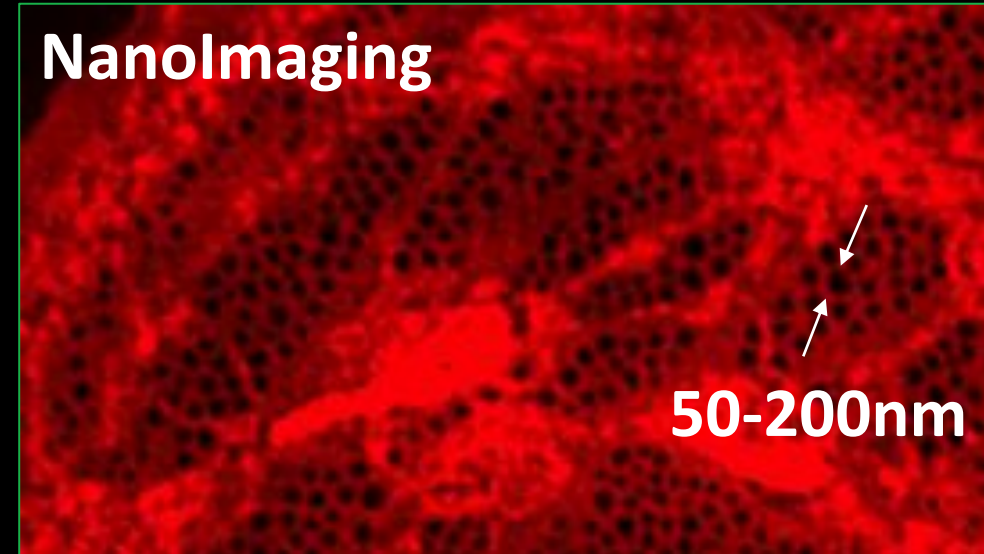
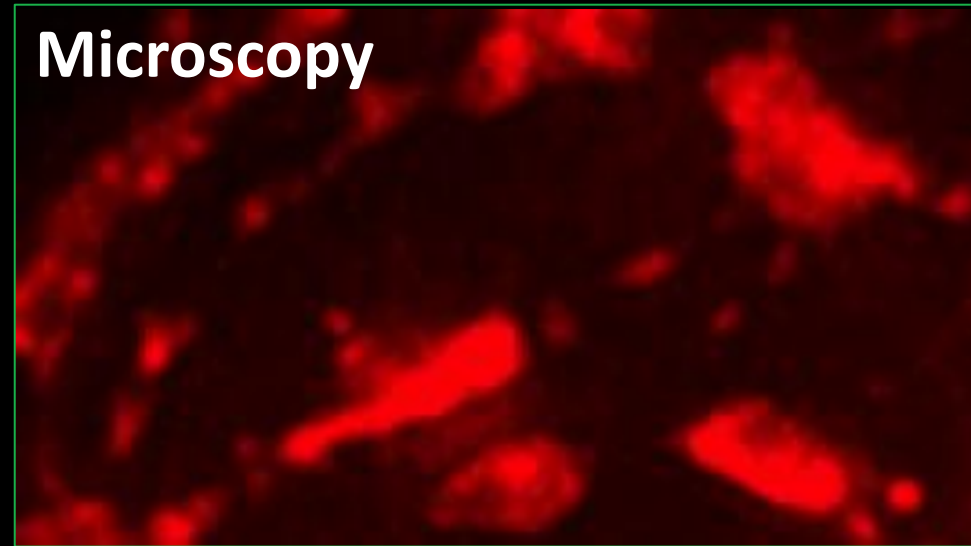


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EPIC Online Technology Meeting 13th. Feb. 2023

chipnano.com

Nanoimaging: trick the laws of physics



Liver sample

Problem with state-of-the-art

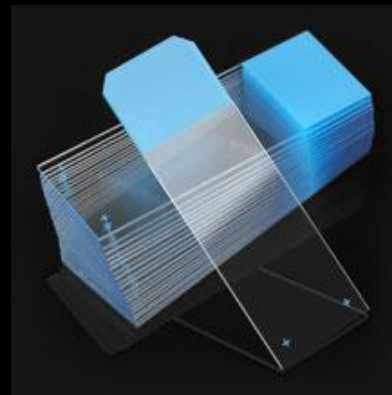
Illumination and collection
via objective lens



Imaged area is small

- Few cells simultaneously
- Miss features
- Slow

Glass slide to hold the
sample



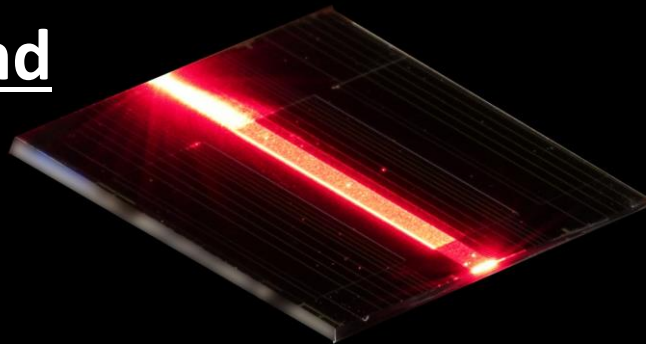
The Solution: Chip-based illumination

Collection via objective lens

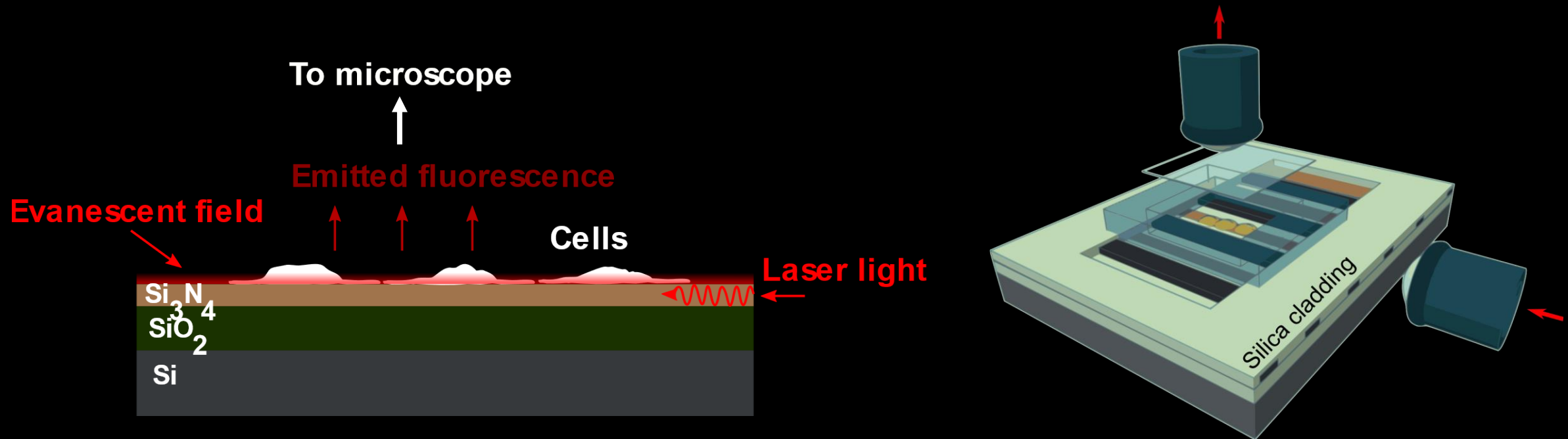


- Choice of objective lens
- Large fields of view

Photonic chip to hold and illuminate the sample

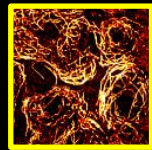


The Solution: Chip-based illumination



Standard Technology: Small Field-of-View

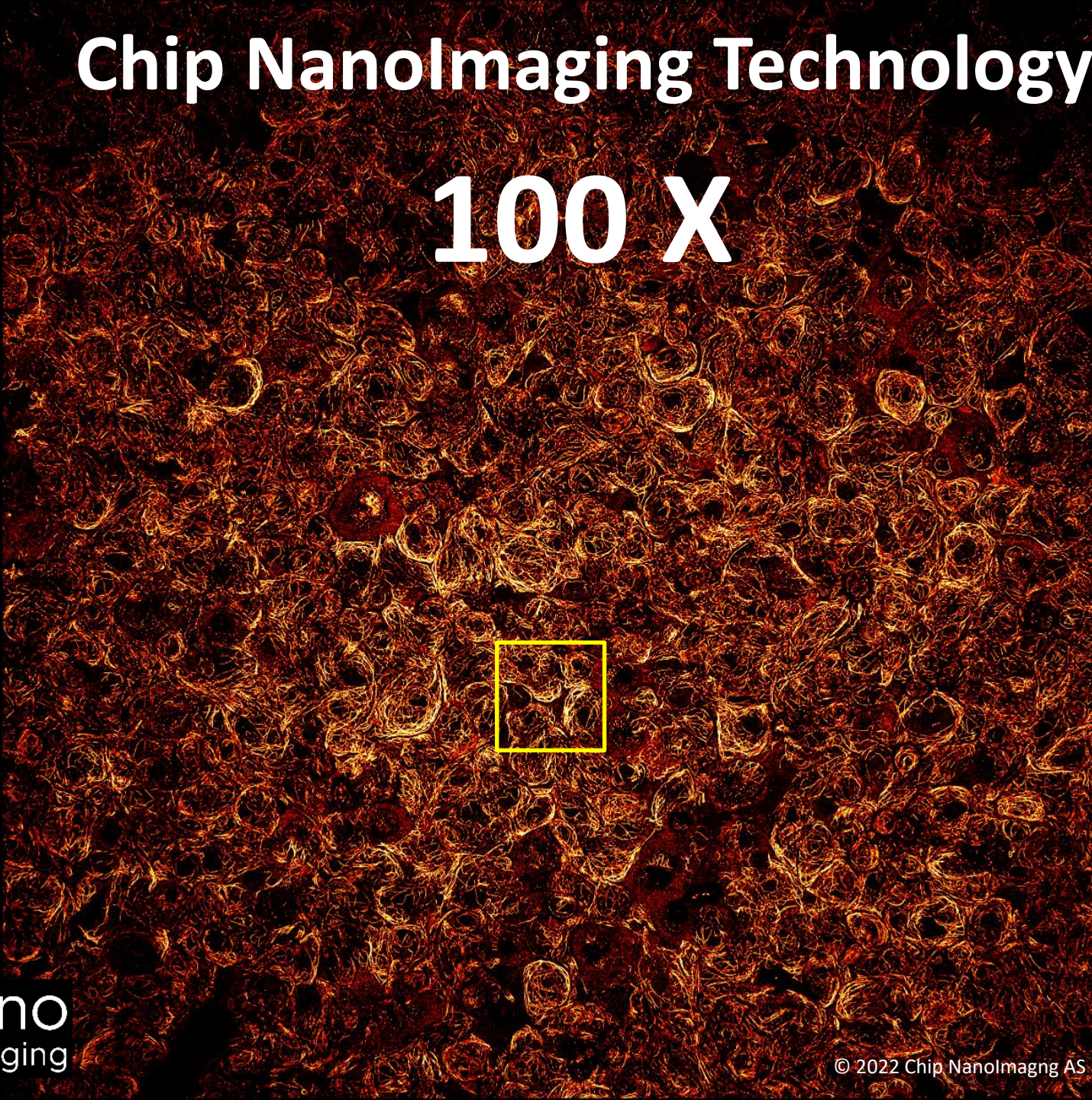
50 μm X 50 μm



Chip Nanolmaging Technology

100 X

500 μm X 500 μm



Appealing Business Model

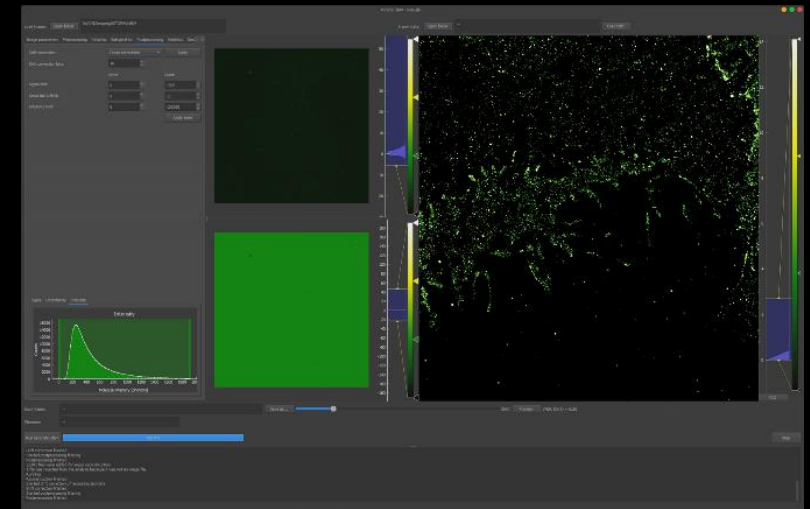
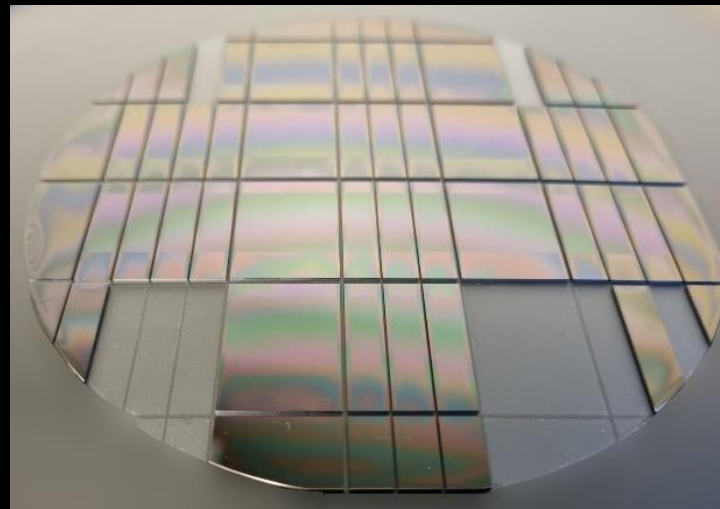
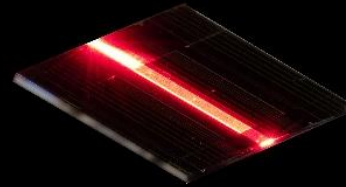
Microscope

Chips

Software

Basic

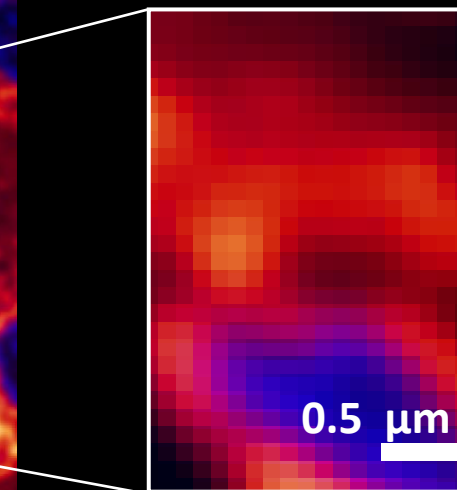
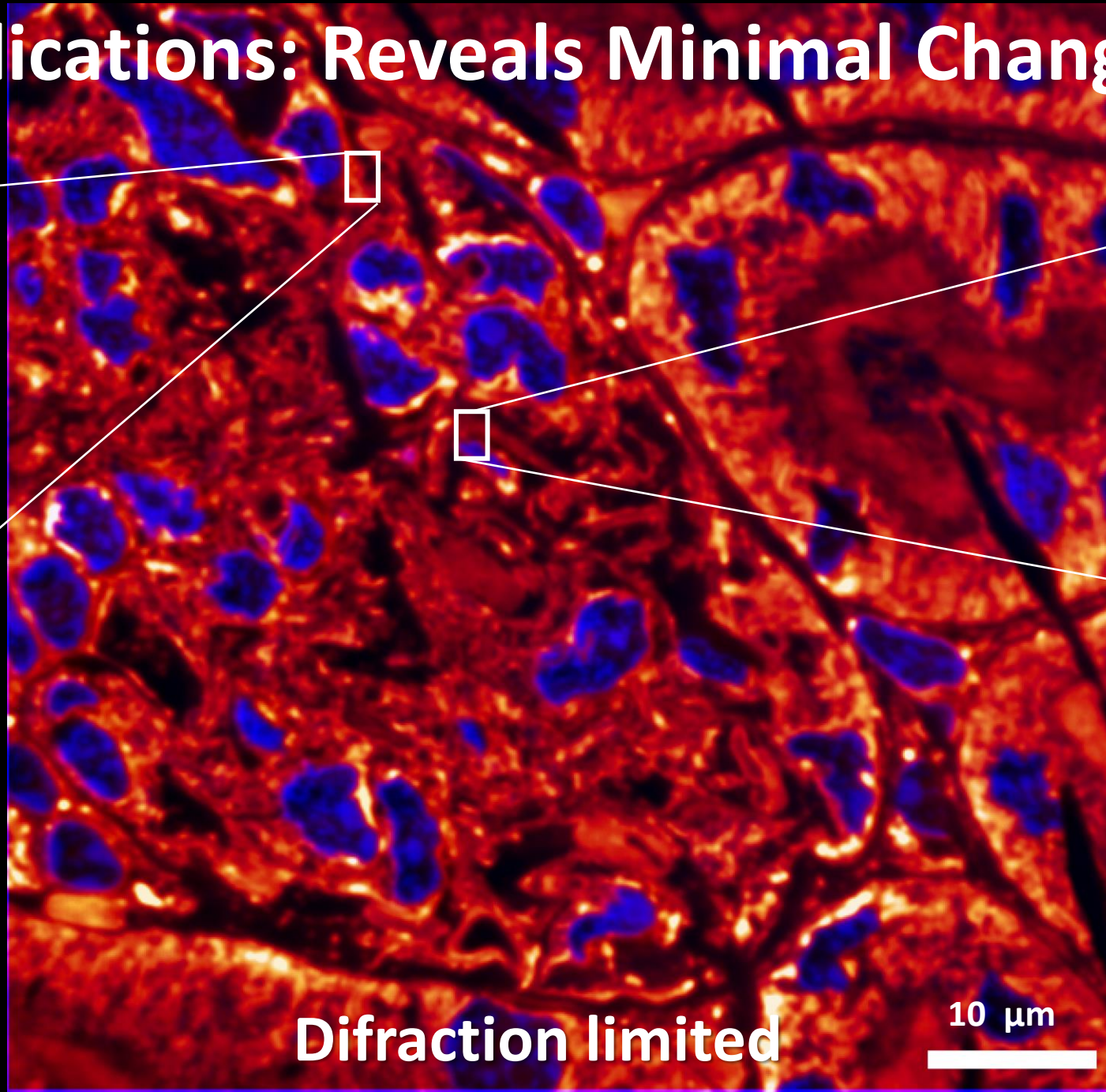
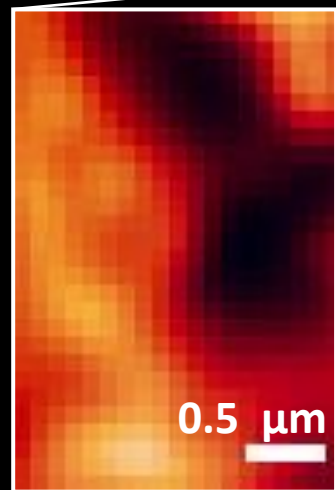
AI



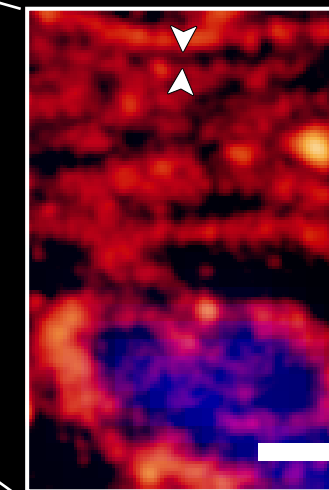
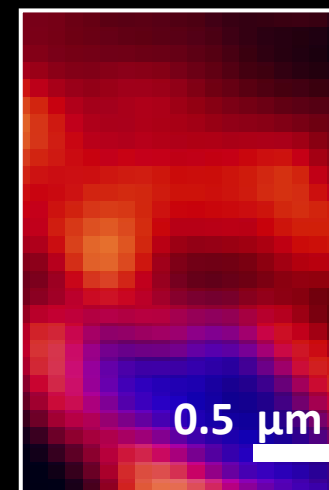
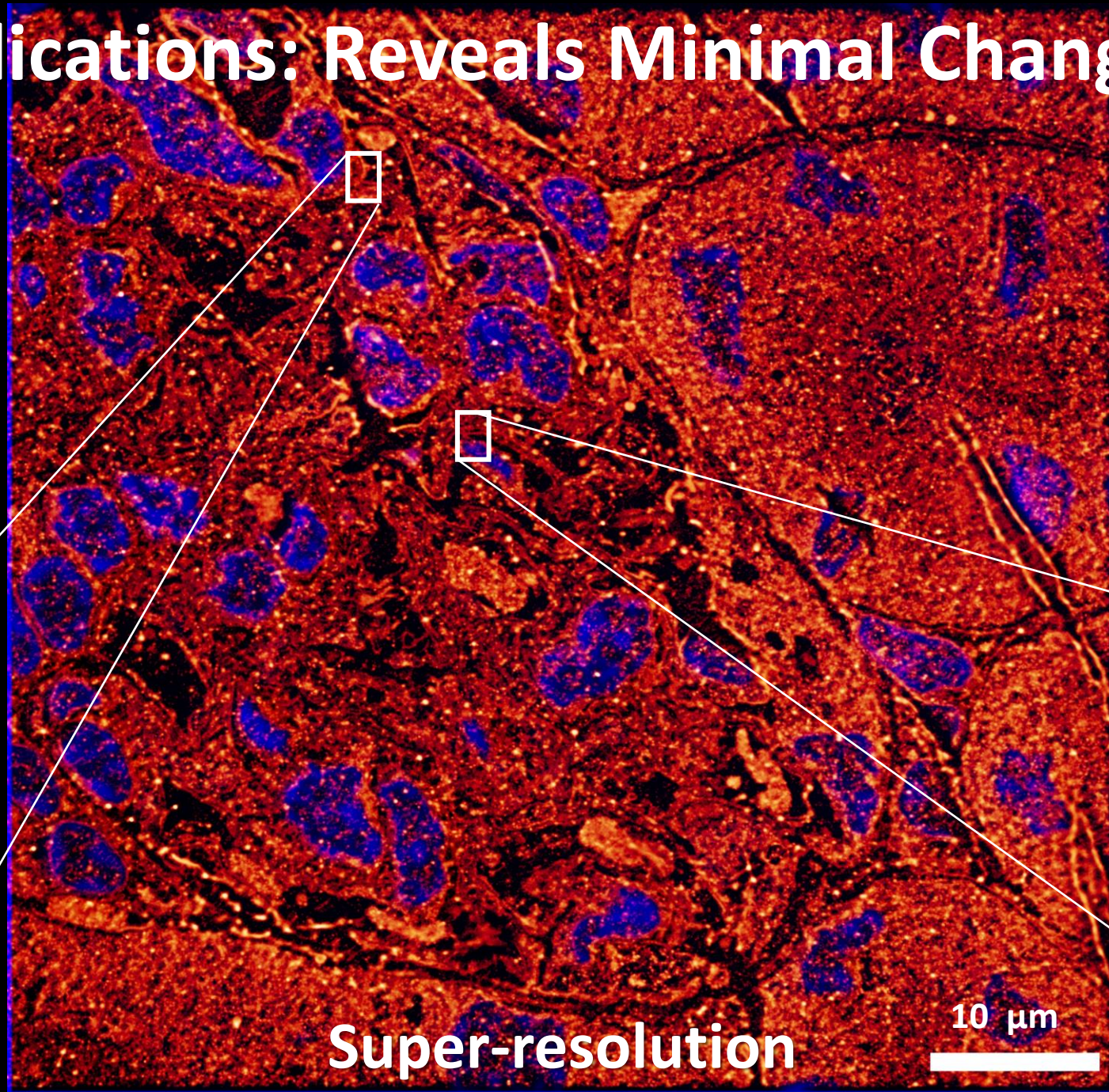
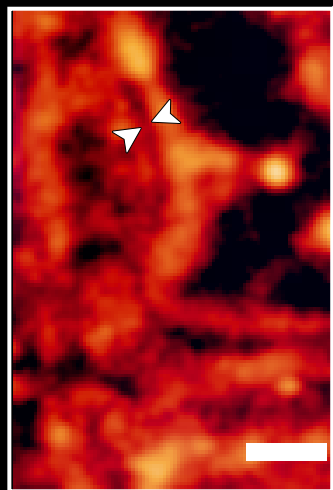
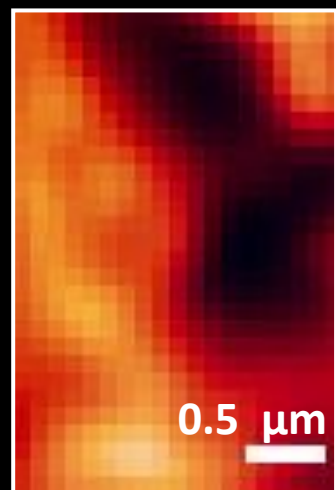
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imaging

+ Service agreements, 3rd party chemistry, training

Applications: Reveals Minimal Change Disease

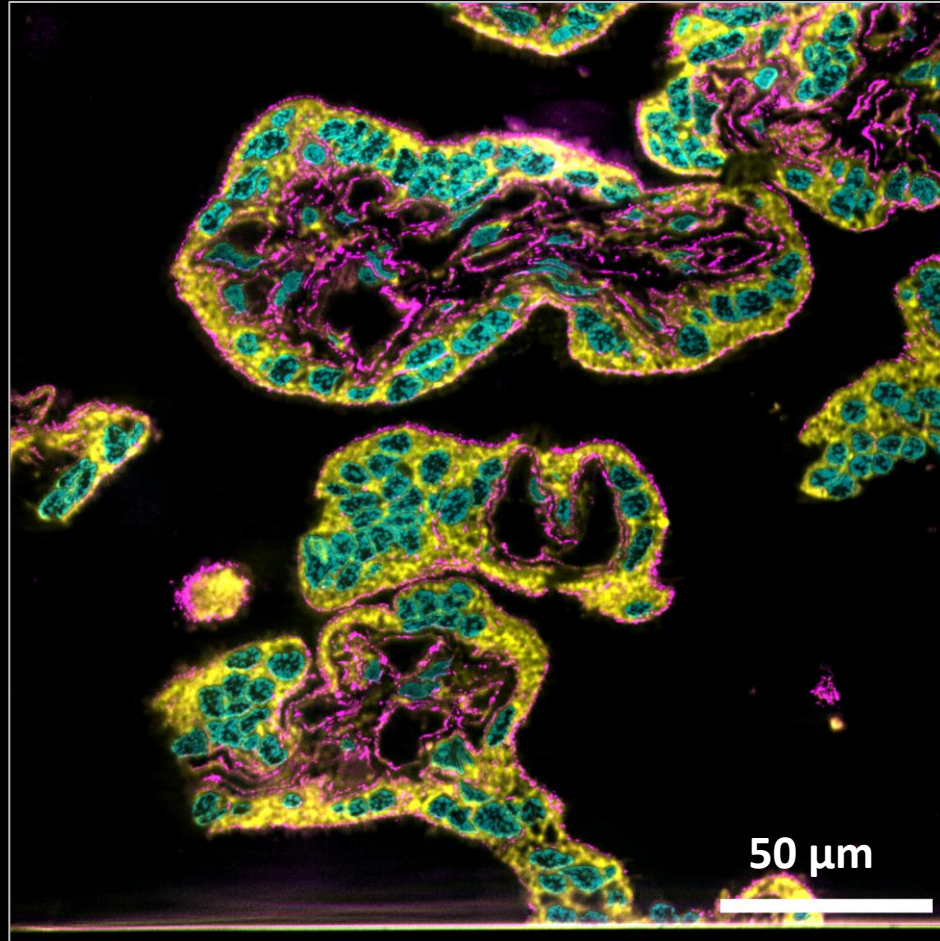


Applications: Reveals Minimal Change Disease

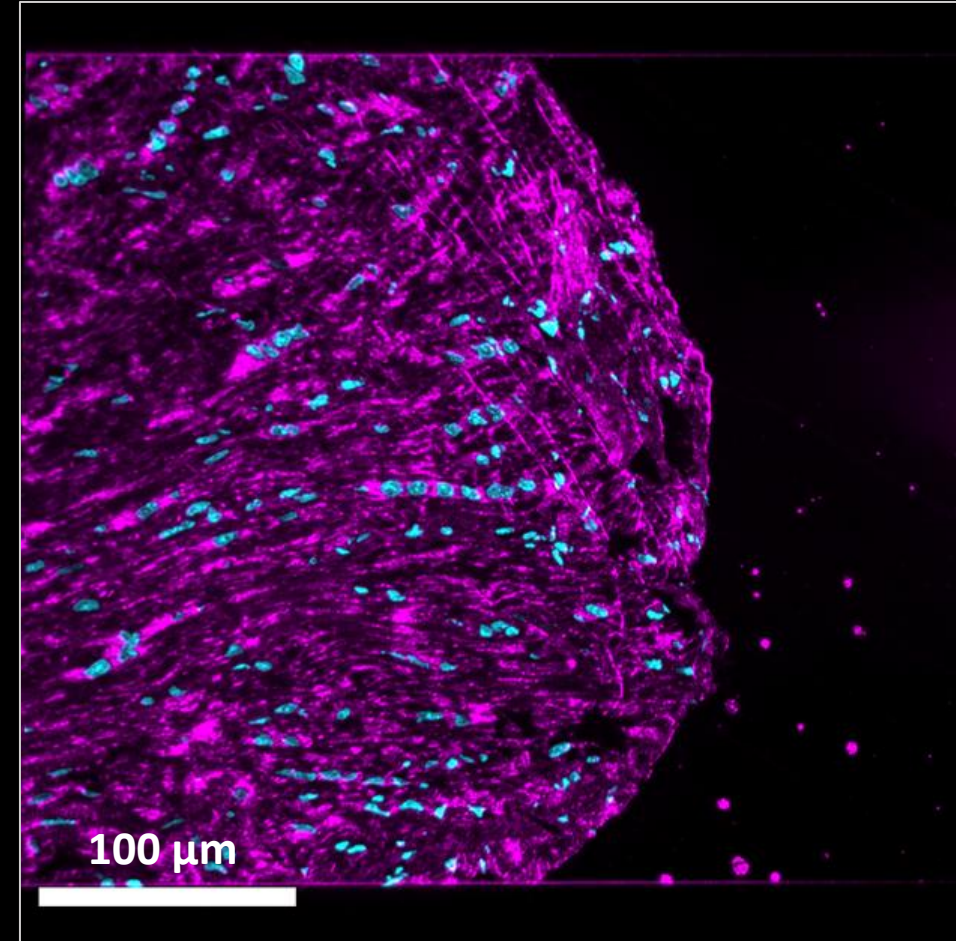


Applications: Histopathology

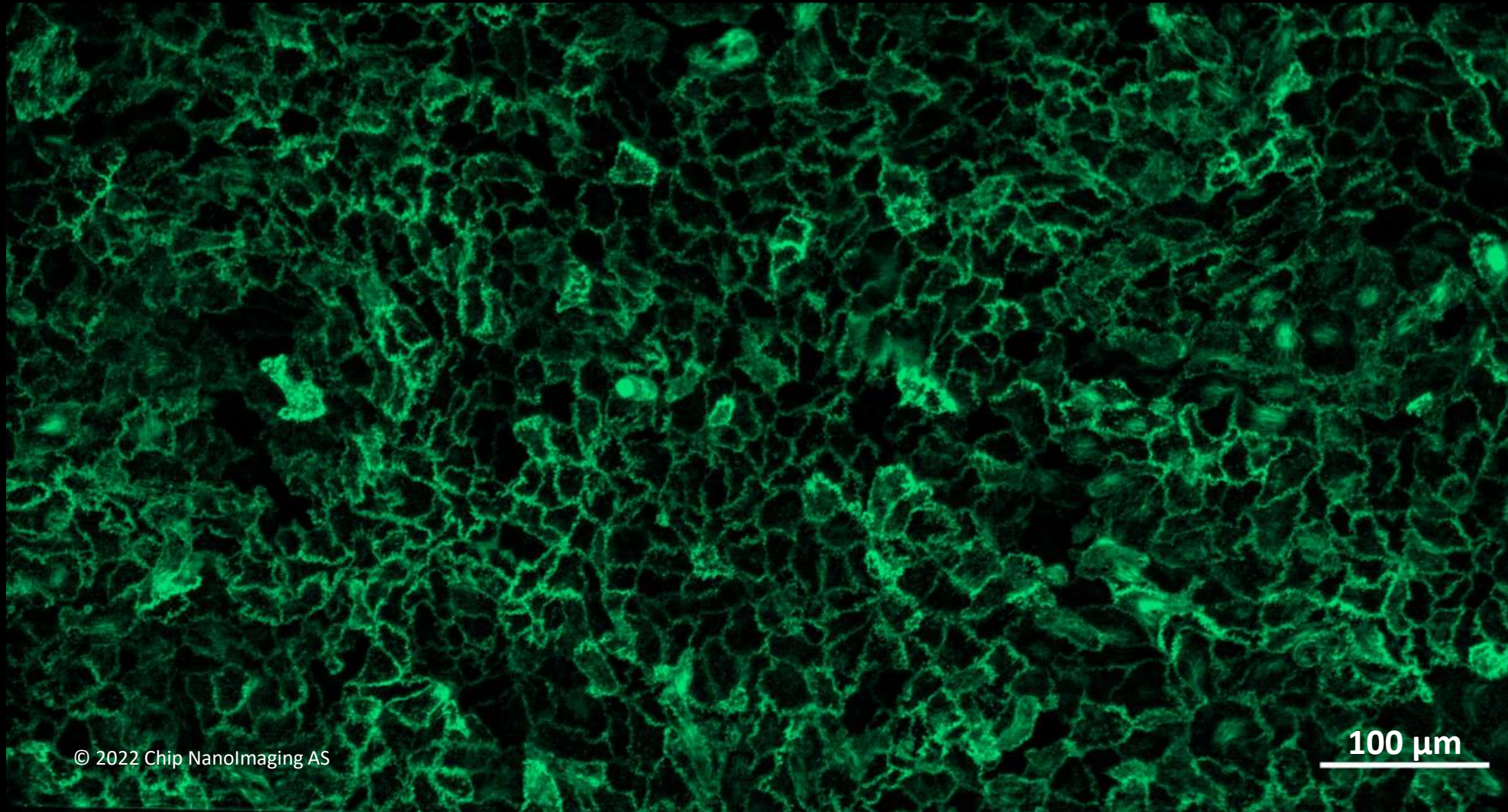
Human Placenta tissue:
Preeclampsia



Pig heart tissue cryosection



Applications: Cell migration



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100 μm

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IMPROVE LIFE**

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