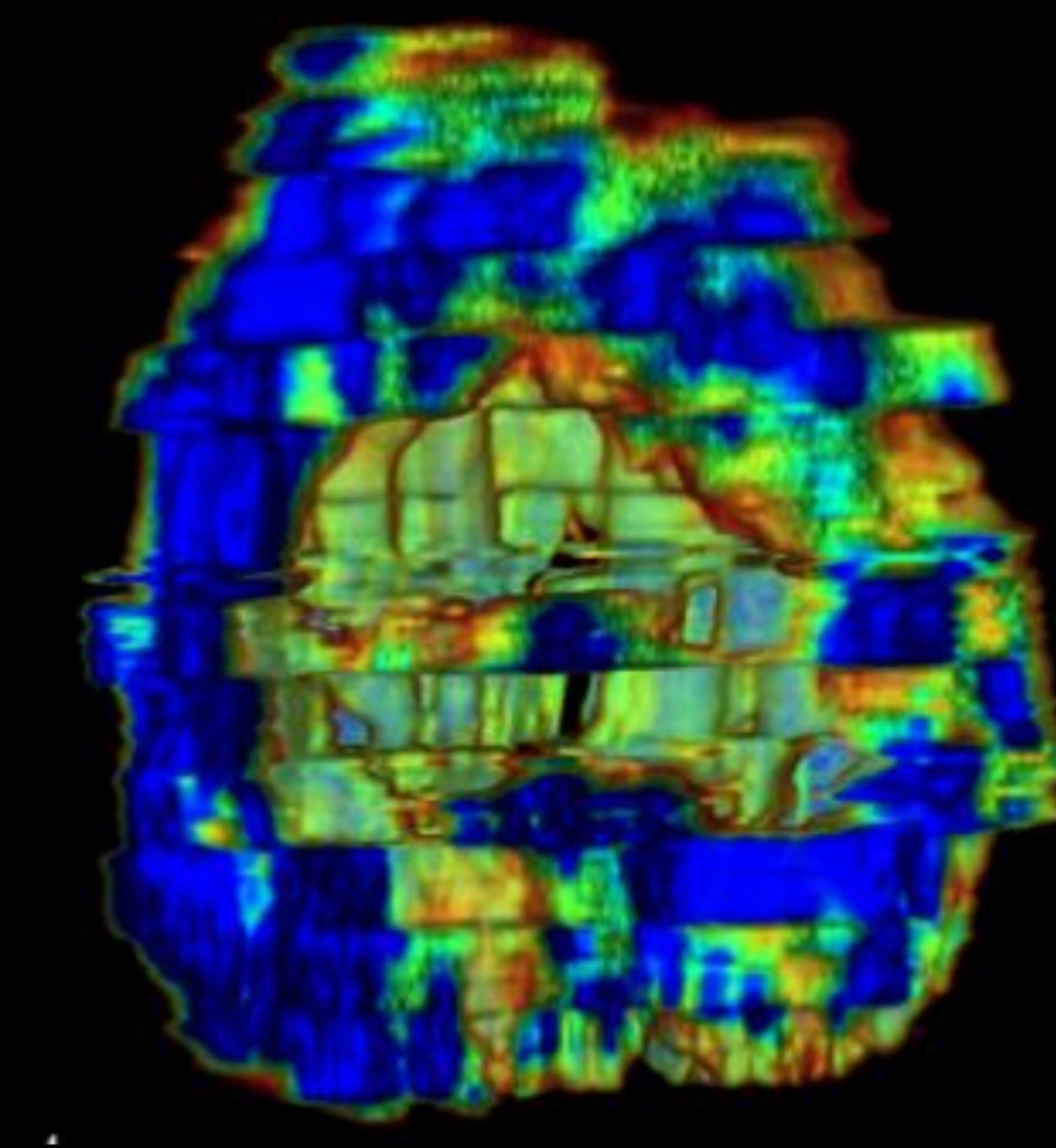


**IMAGING THE
DEVELOPING
HEART...
... WITHOUT BREAKING IT**

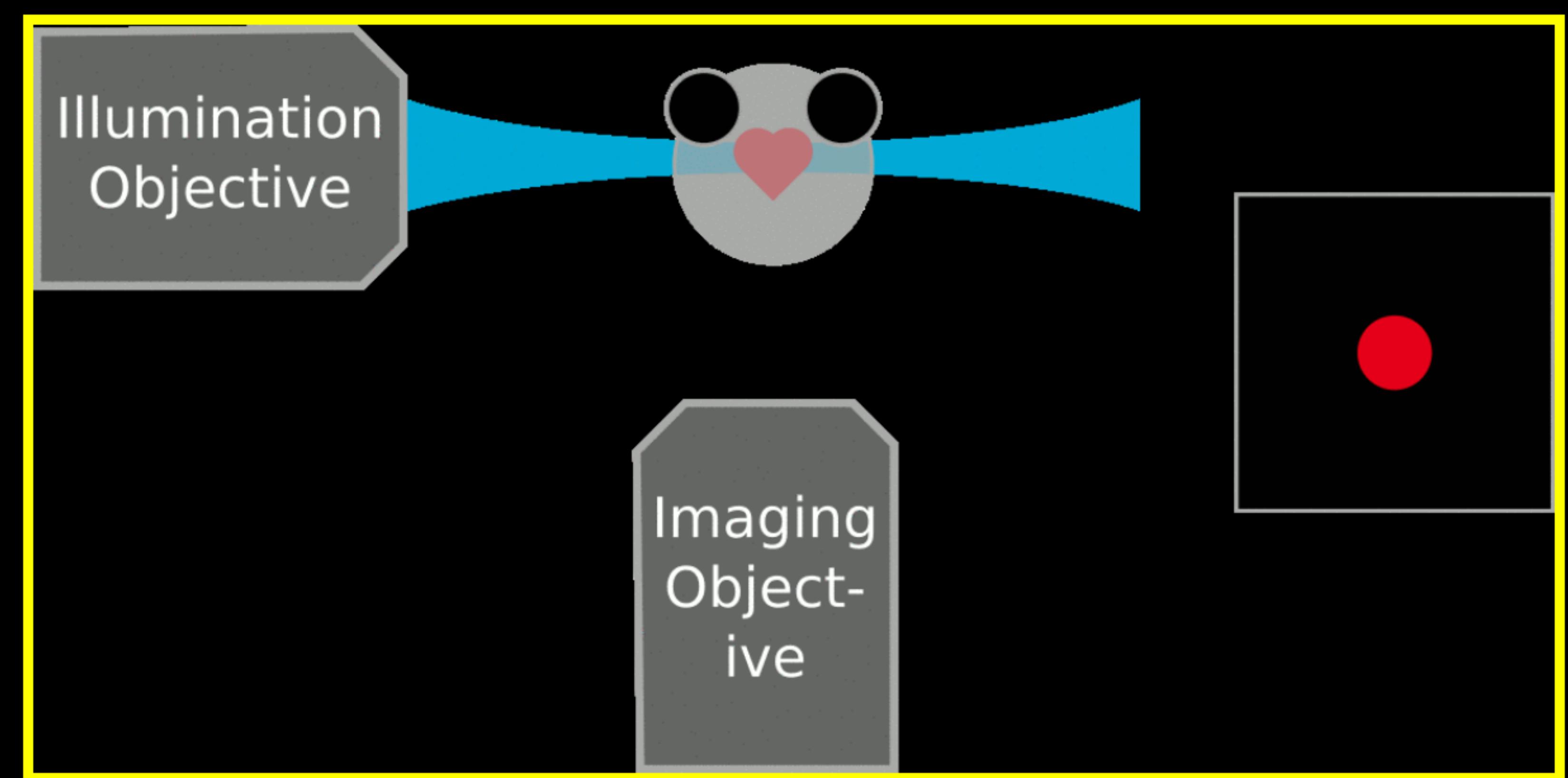
WHY?



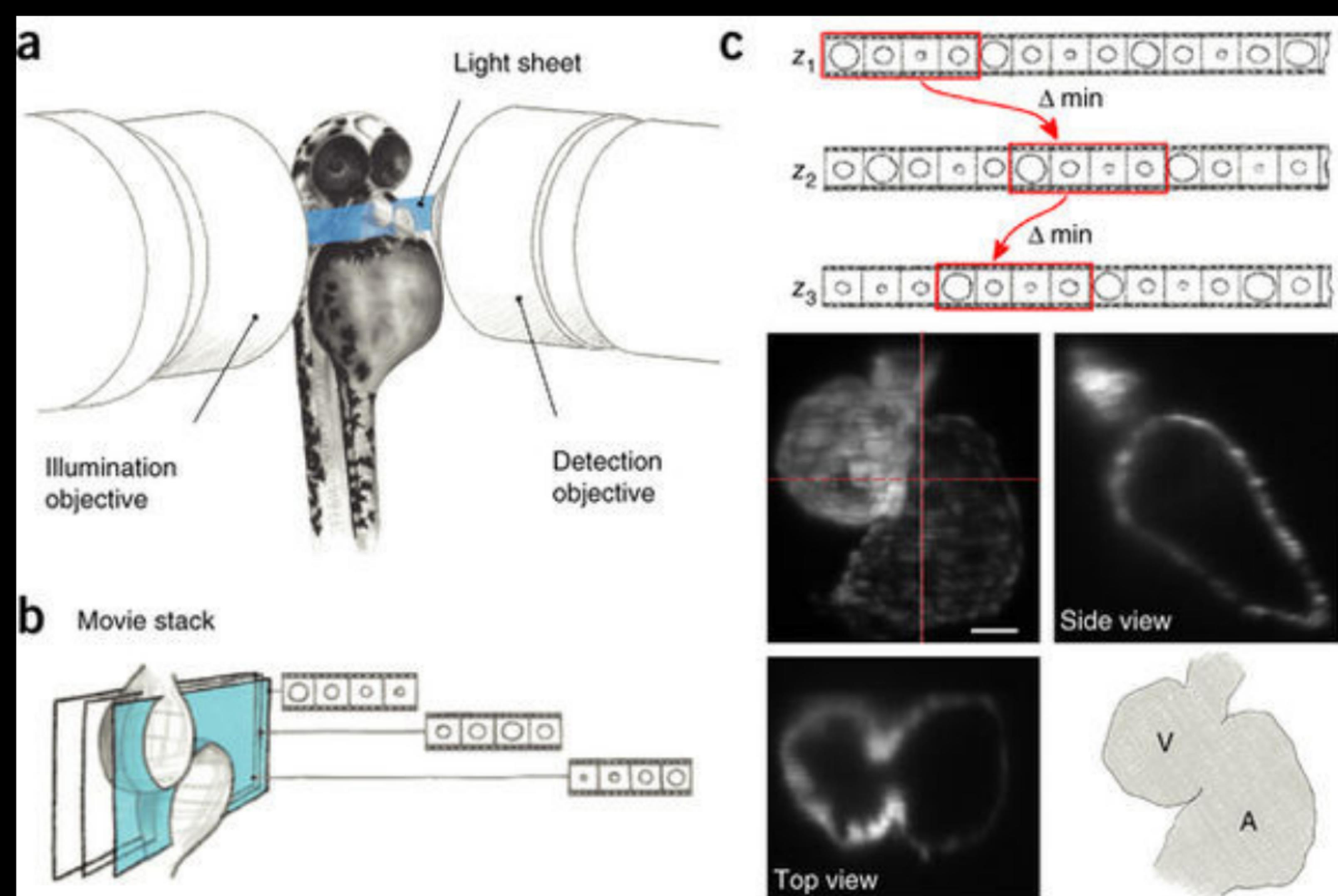


Taylor et al. J. of Biomedical Optics (2011)

HOW?

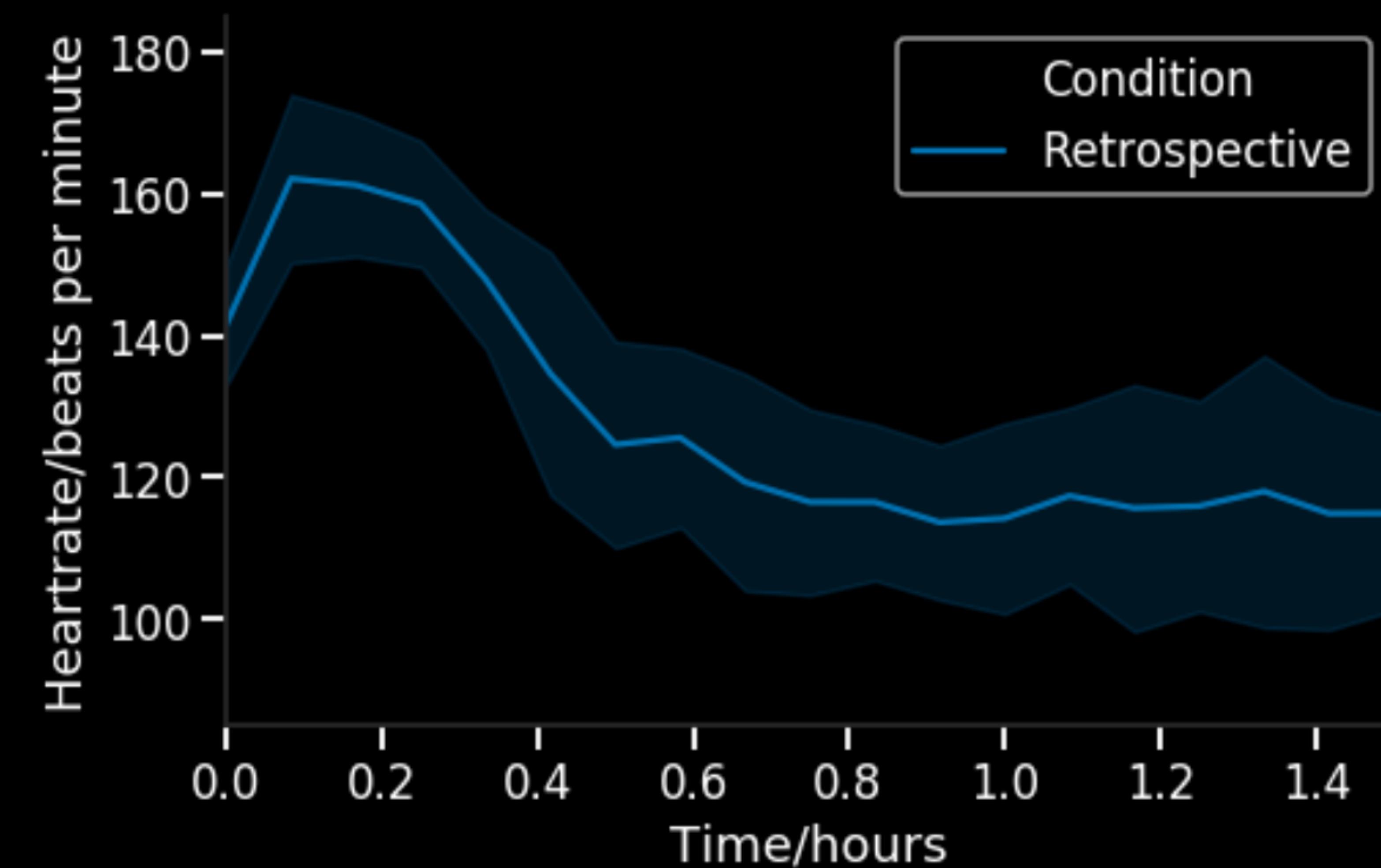


4D IMAGING OF THE HEART



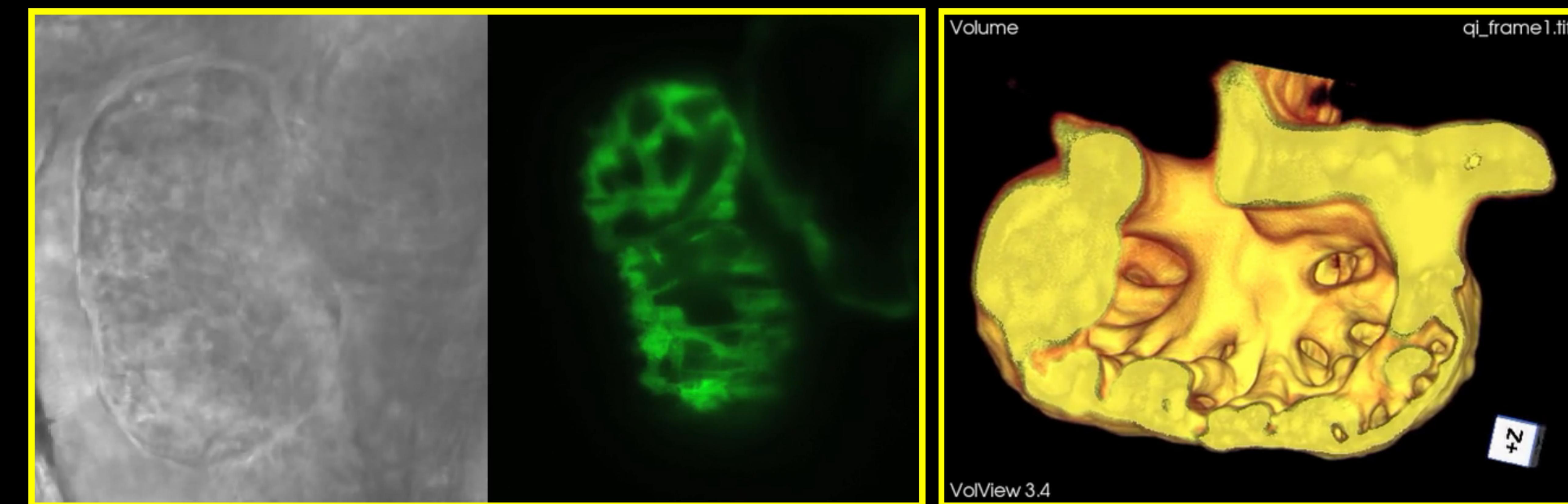
Mickoleit et al. Nature (2014)

CORRECTION: BREAKING THE HEART



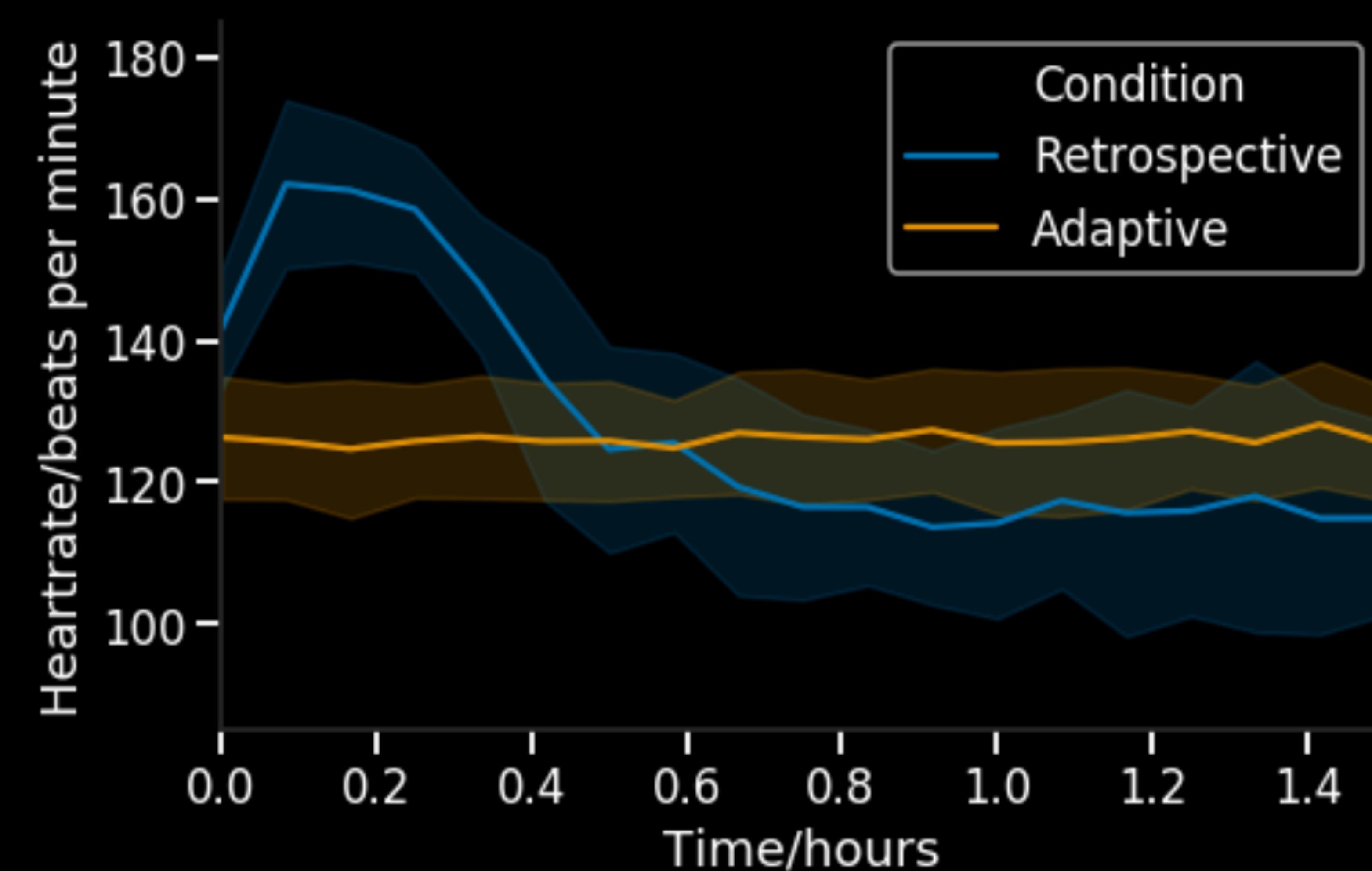
A SMART
MICROSCOPE
FOR IMAGING THE BEATING
HEART
WITHOUT BREAKING IT

REAL-TIME PROSPECTIVE OPTICAL GATING

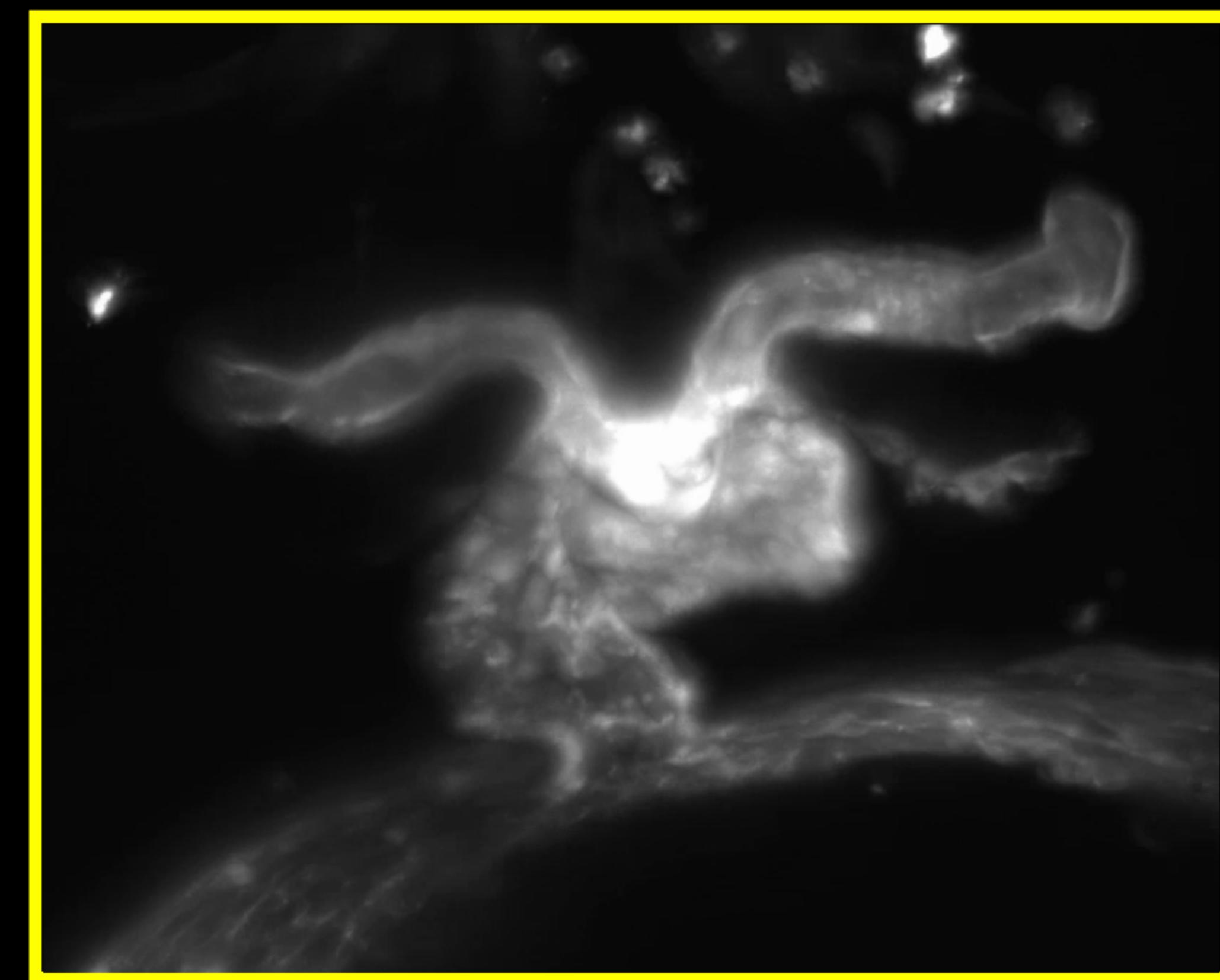


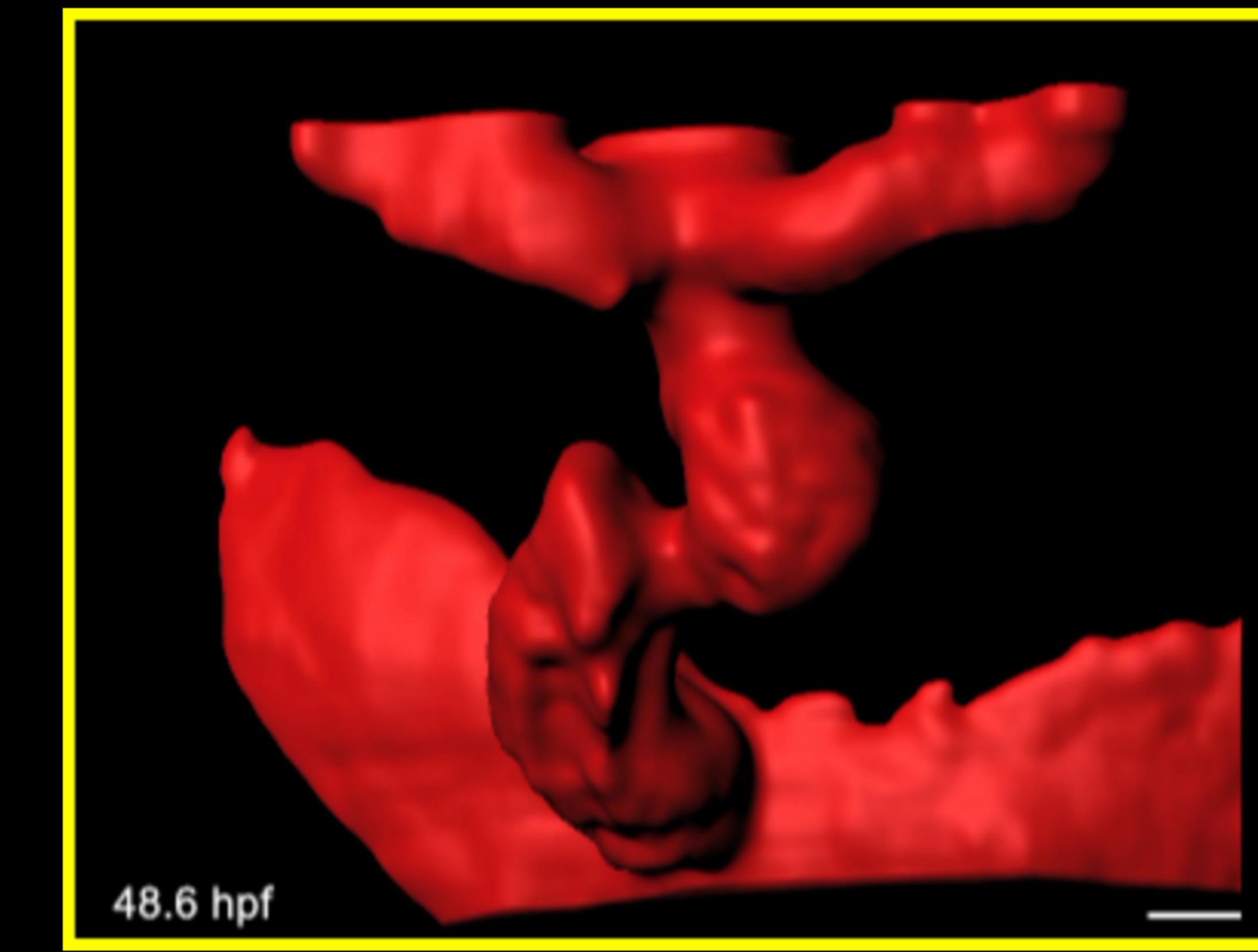
Taylor et al. J. of Biomedical Optics (2011)

WITHOUT! BREAKING THE HEART

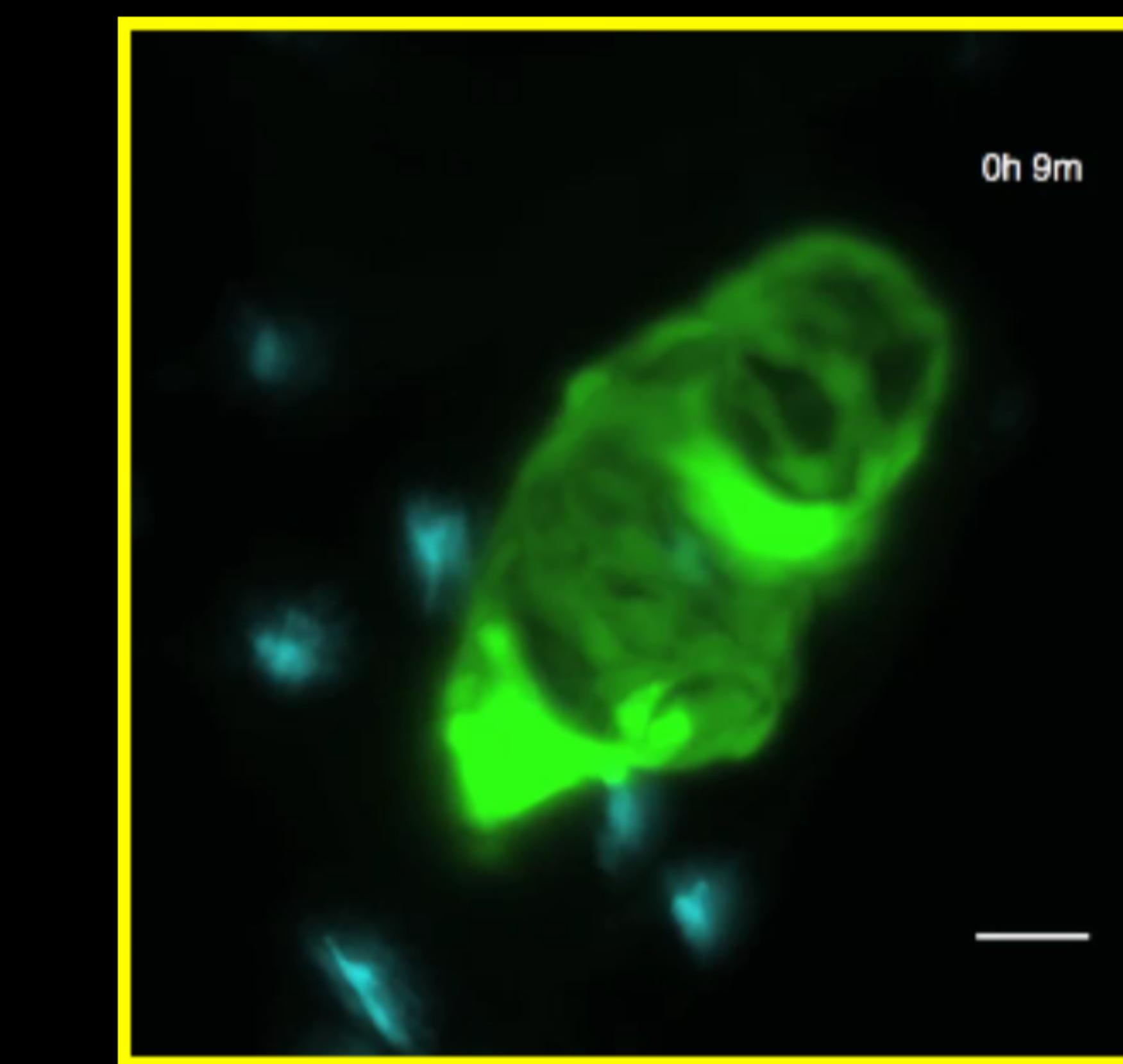


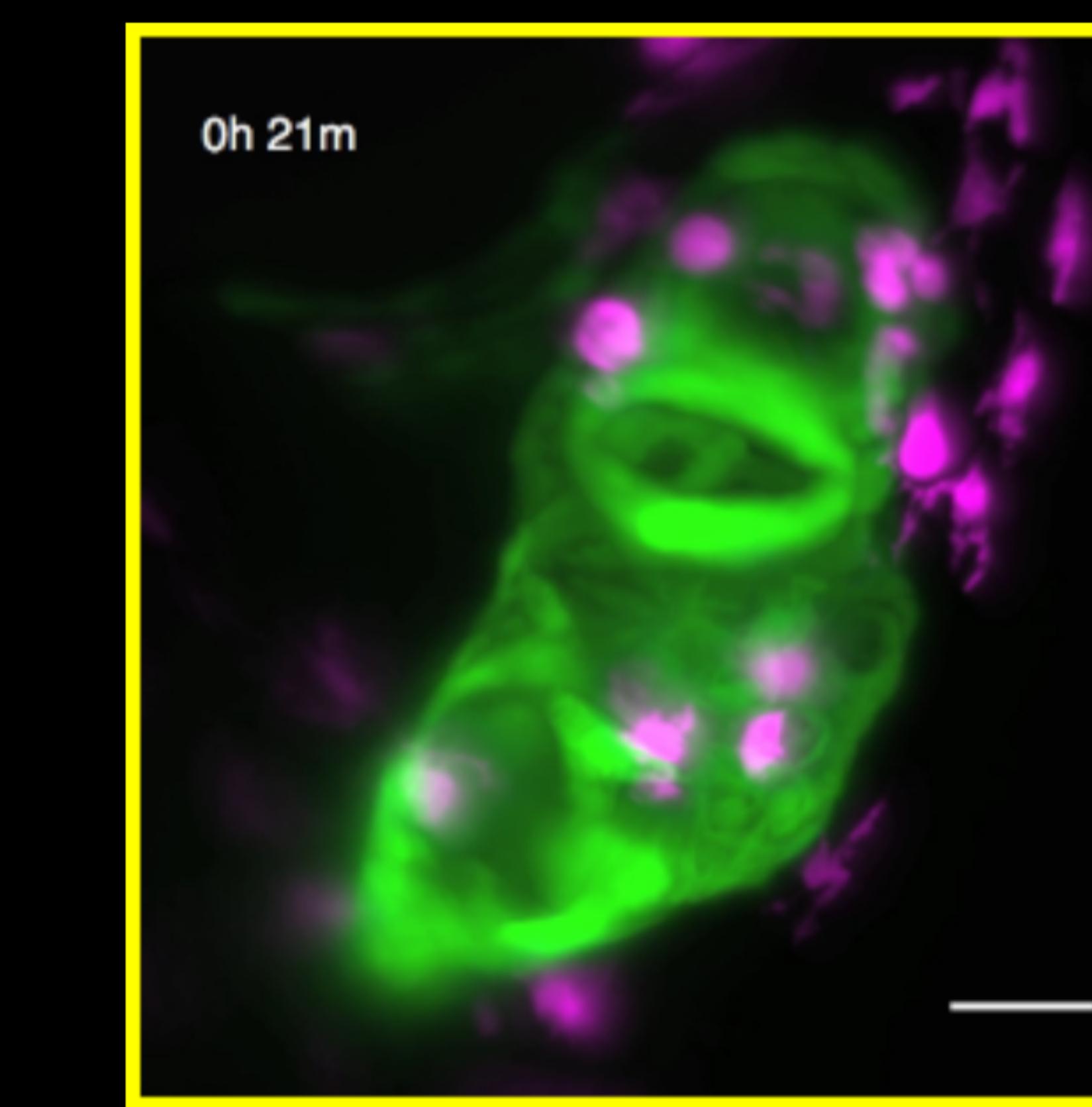
WHAT?





24h 3D timelapse
imaging of
trabeculation
in the beating heart







**IMAGING
CONCEPTS
GROUP**



chas.nelson@glasgow.ac.uk



EPSRC