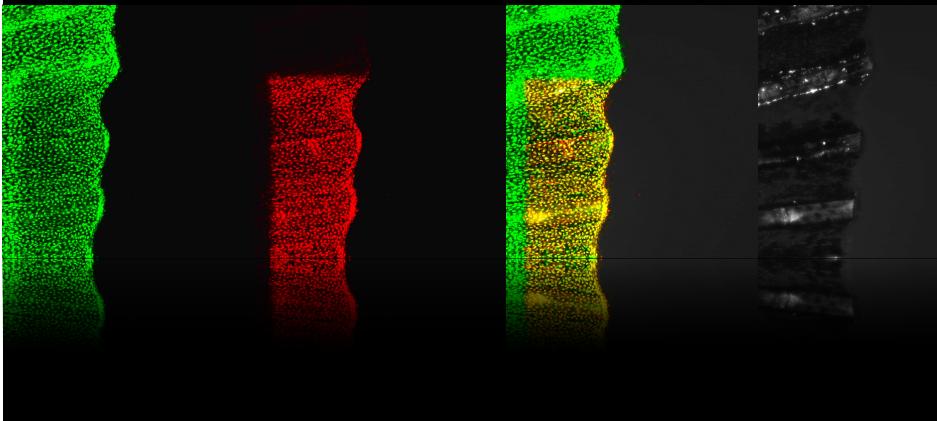
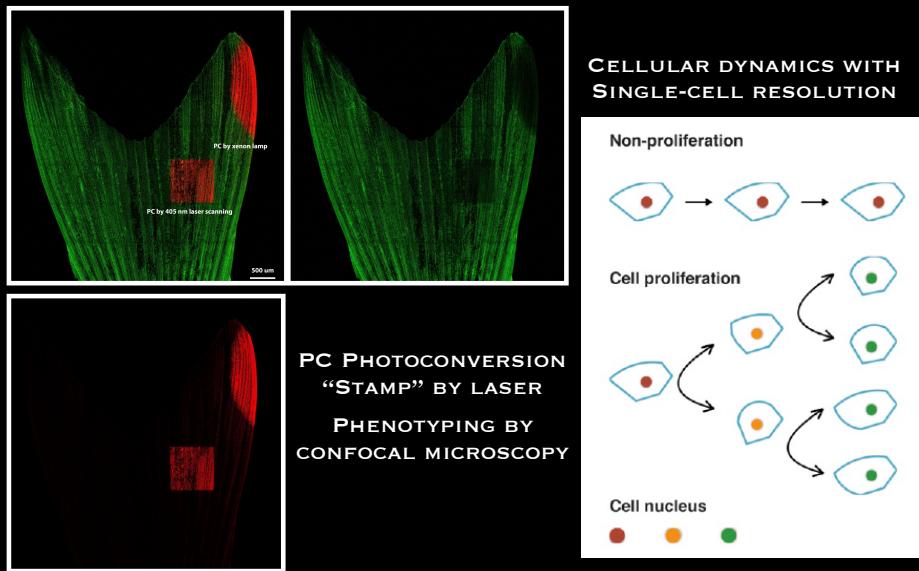


## MAPPING NON/LESS-PROLIFERATIVE CELLS IN THE ADULT ZEBRAFISH TISSUE REGENERATE

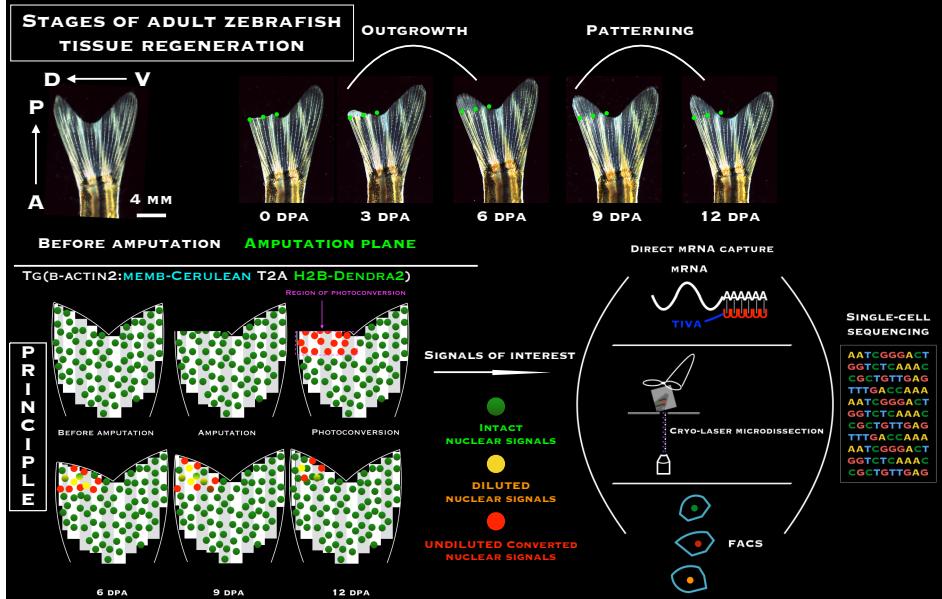
HANYU QIN  
2015-05-28



### PRINCIPLES OF PHOTO-N TG(B-ACTIN2:MEMB-CERULEAN T2A H2B-DENDRA2)



## STUDY COMPLEX TISSUE REGENERATION BY SYSTEMS IMAGING BASED APPROACH



## WORKFLOW

IMAGE ACQUISITION BY ZEISS CONFOCAL MICROSCOPE  
(STITCHED 3D FLUORESCENT IMAGES)

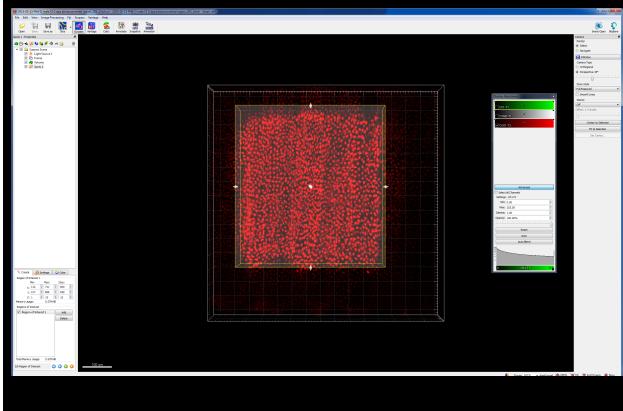
IMAGE ANALYSIS BY IMARIS

SET UP ALGORITHM WITH IMAGE OF 0 DPA

APPLY ALGORITHM TO IMAGES OF OTHER TIME POINTS

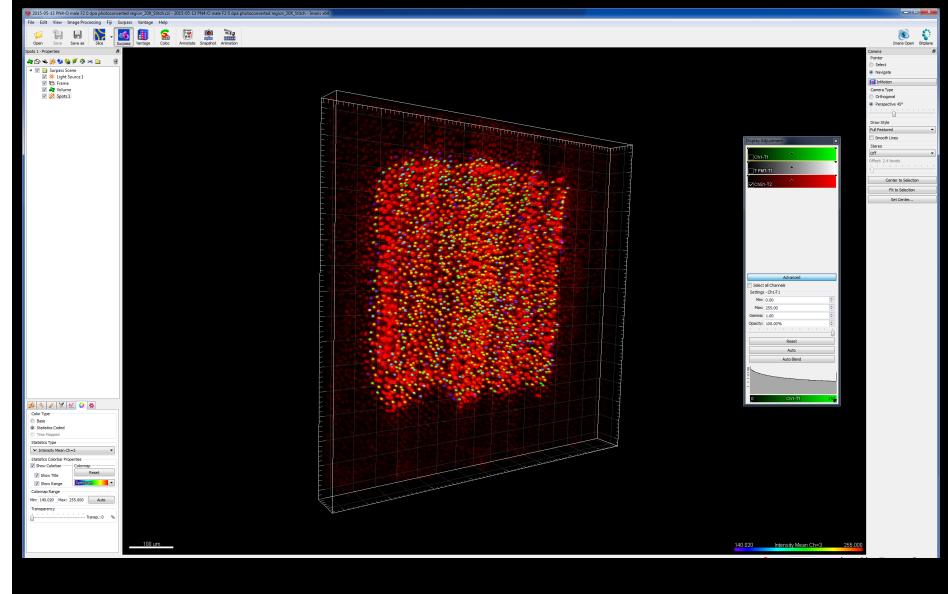
MEAN INTENSITY  
NUMBER OF NUCLEI  
DISTRIBUTION/PATTERN  
(MIGRATION ROUTE)

## SPOT DETECTION FROM 3D RENDERING - 0 DPA

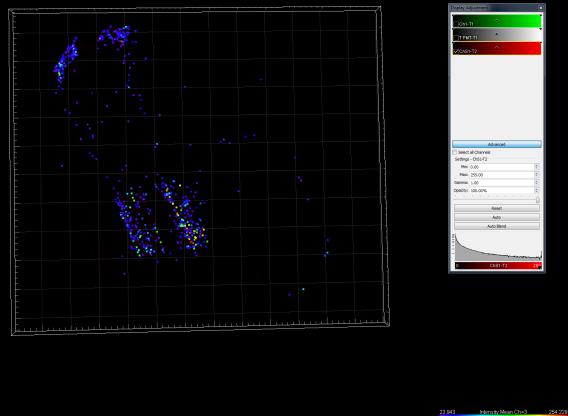


PARAMETERS:  
DIAMETER  
MIN/MAX INTENSITY

## DEFINED SPOTS



APPLY ALGORITHM TO IMAGE AT 6 DPA  
PATTERN AT 6 DPA



THANK YOU