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Quantitative analysis of cardiac morphogenesis through live optical time lapse microscopy

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Project aims

01 #One

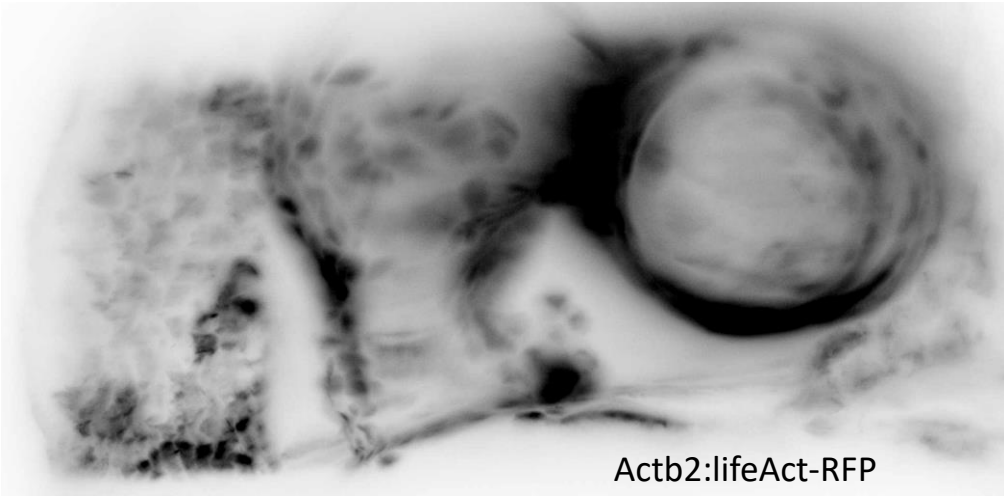
Develop imaging protocols to perform live imaging of embryos using light sheet microscopy allowing fast imaging speed at high spatial resolution

02 #Two

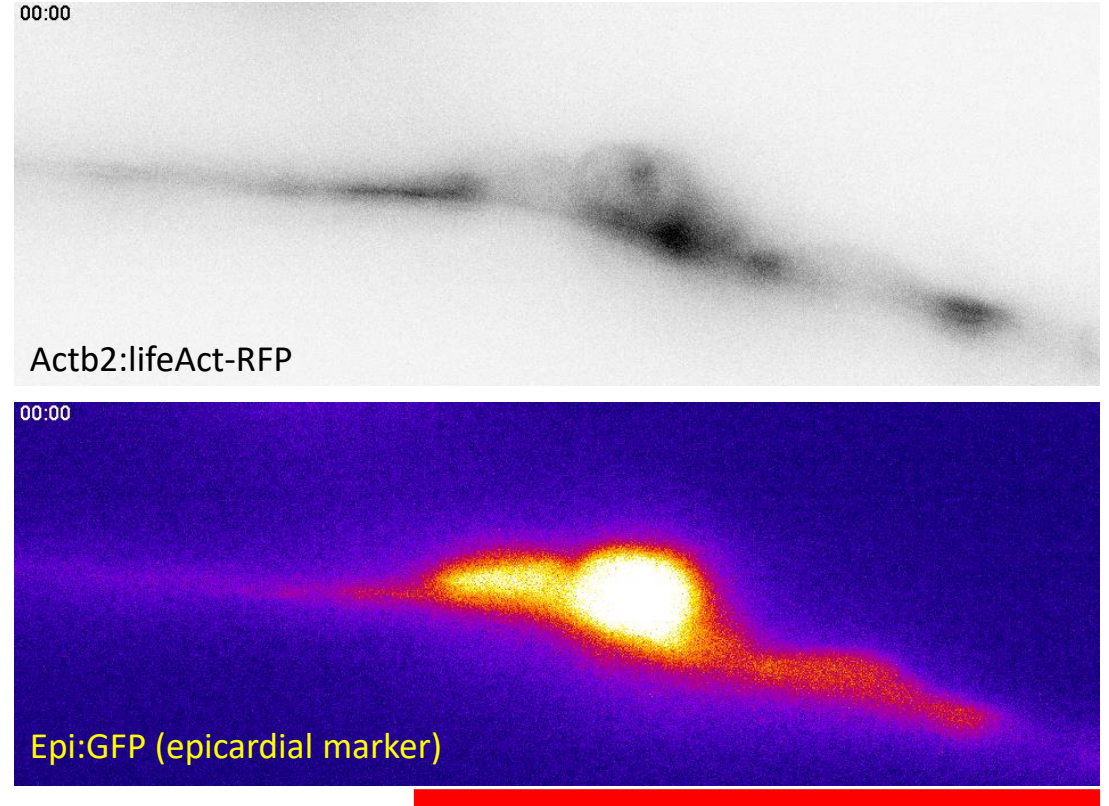
Apply the imaging to characterize the impact of mechanosensitive signaling during proepicardium (PE) formation

03 #Three

Address the role of primary cilia in the process of PE formation using live imaging



Zebrafish beating heart with formed proepicardial cluster



Imaging of proepicardial cluster formation