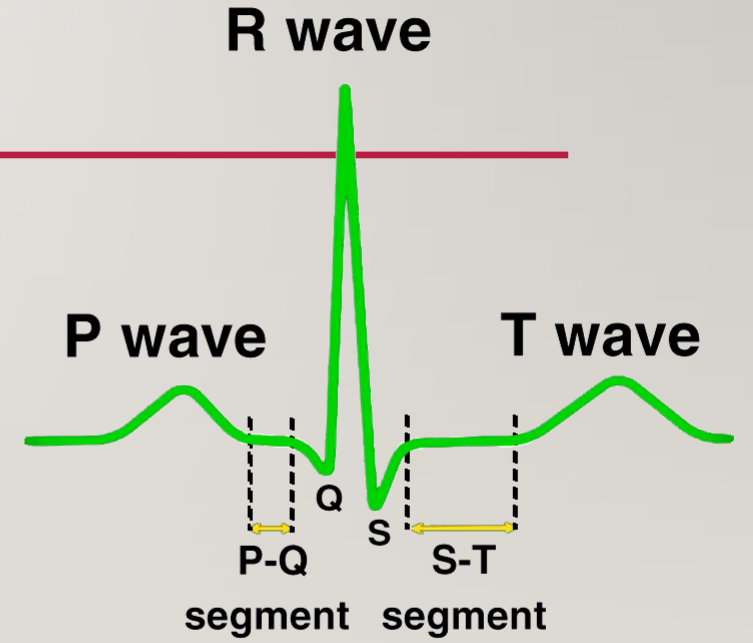
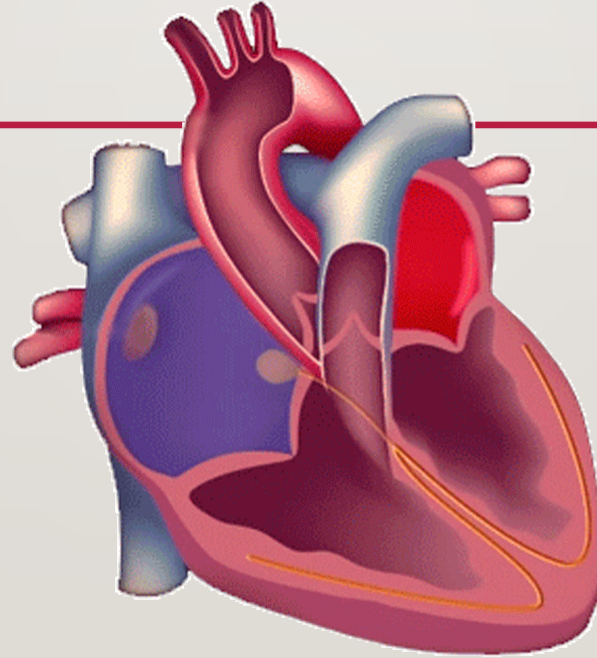


KALP KASILMA KAYITLARININ KAYDEDİLMESİ

DOÇ.DR. ERKANTUNCAY

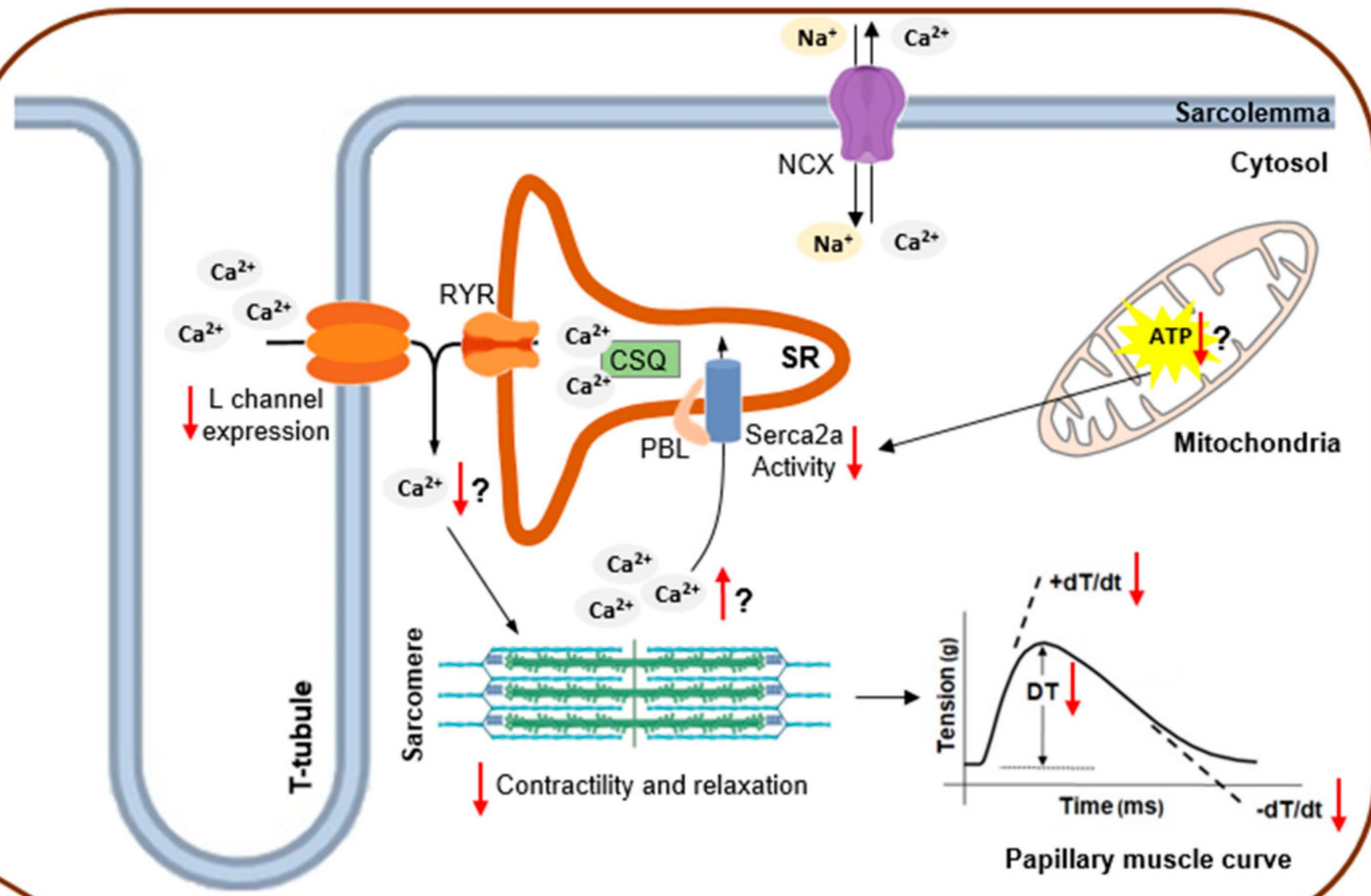


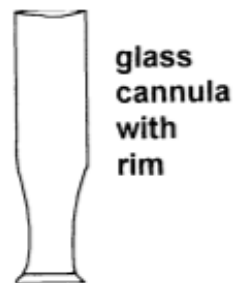
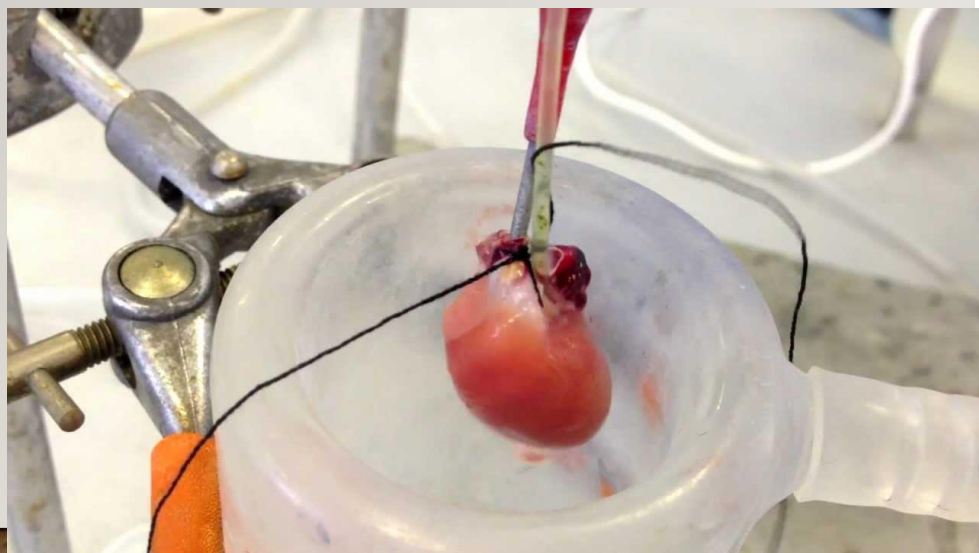


Food restriction



Cardiac dysfunction

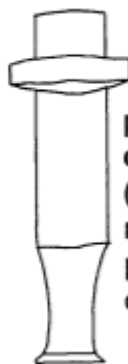




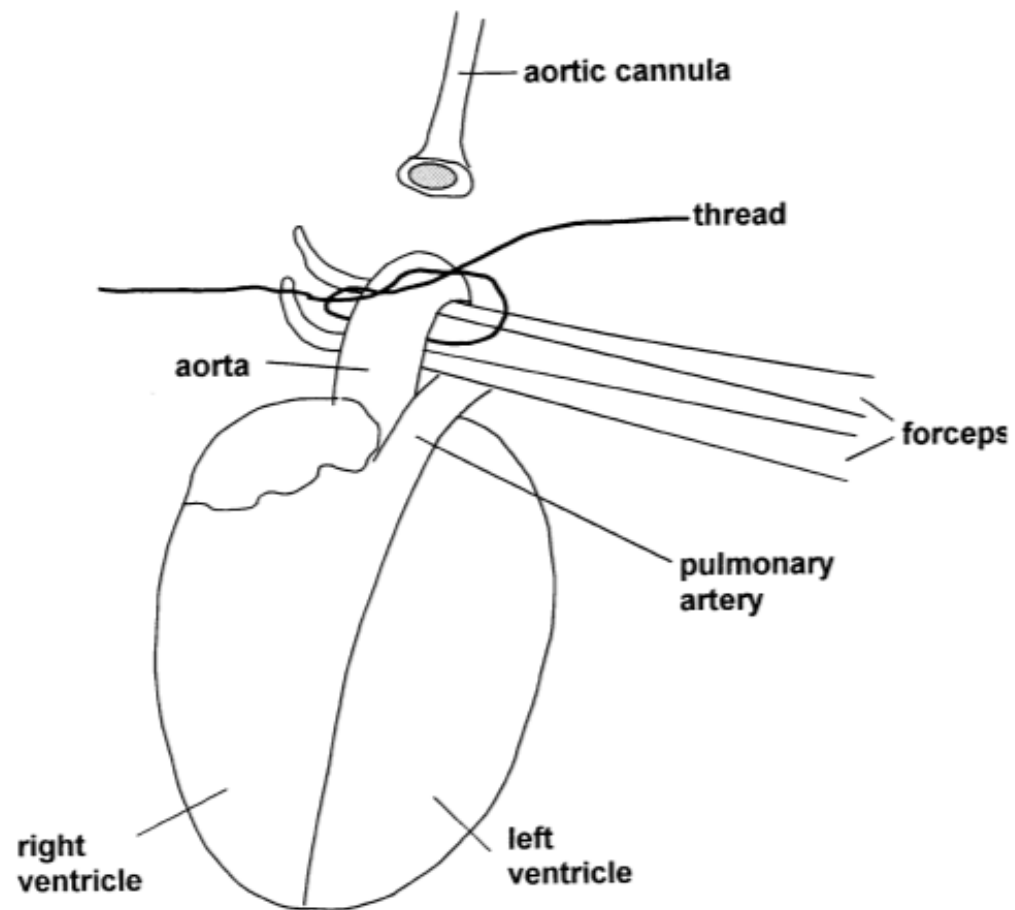
glass
cannula
with
rim



steel or teflon
cannula
with
circumferential
groove

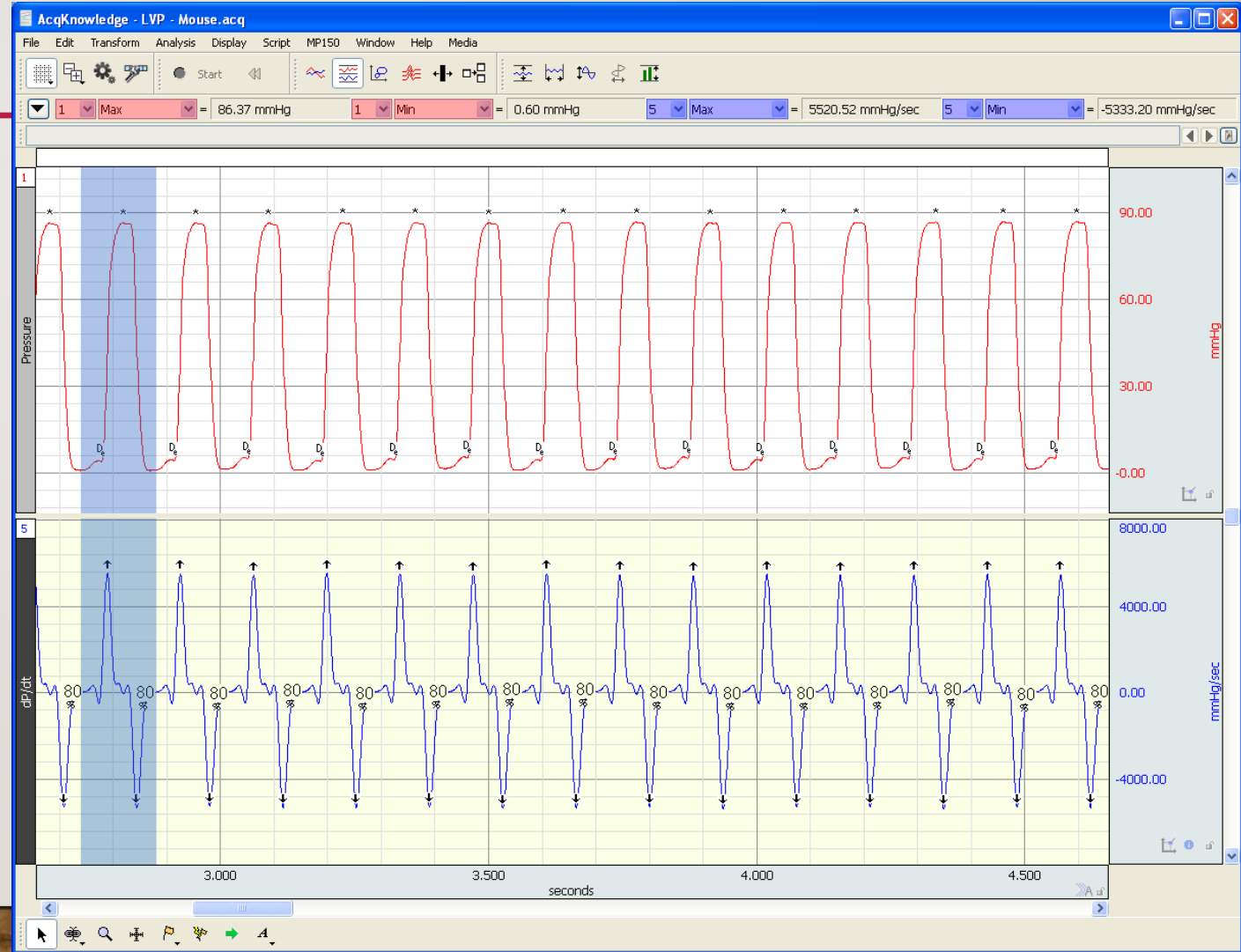


plastic
cannula
(Luer lock)
made by
pressing
on a hot plate



KAYITLARIN ALINMASI

- aortic flow AF
- coronary flow CF
- cardiac output CO
- aortic pressure AP
- ventricular pressure
- electric activity (ECG)



EX VIVO ÇALIŞMALARININ AVANTAJLARI

- Quick, relatively cheap, and easy to perform technique
- High reproducibility, large number of experiments
- Suitable for screening
- Broad spectrum of biochemical, physiological, morphological and pharmacological studies
- Suitable for investigating cardiac-specific effects
- Controlled environment
- Ischemia/reperfusion
- Allows those experiments to be continued which would lead to termination of an in vivo experiment (e.g. infarction-induced loss of pump function, cardiac arrest or arrhythmias)

EX VIVO ÇALIŞMALARININ DEZAVANTAJLARI

- in vivo modele göre daha az fizyolojiktir
- Zamana bağlı olarak örnekler bozulabilmektedir
- Sadece akut çalışmalar yapılabilir (genellikle 3 saatten daha az)

SIÇANDAN İZOLE EDİLEN PAPİLER KASTA KASILMA DENEYLERİ

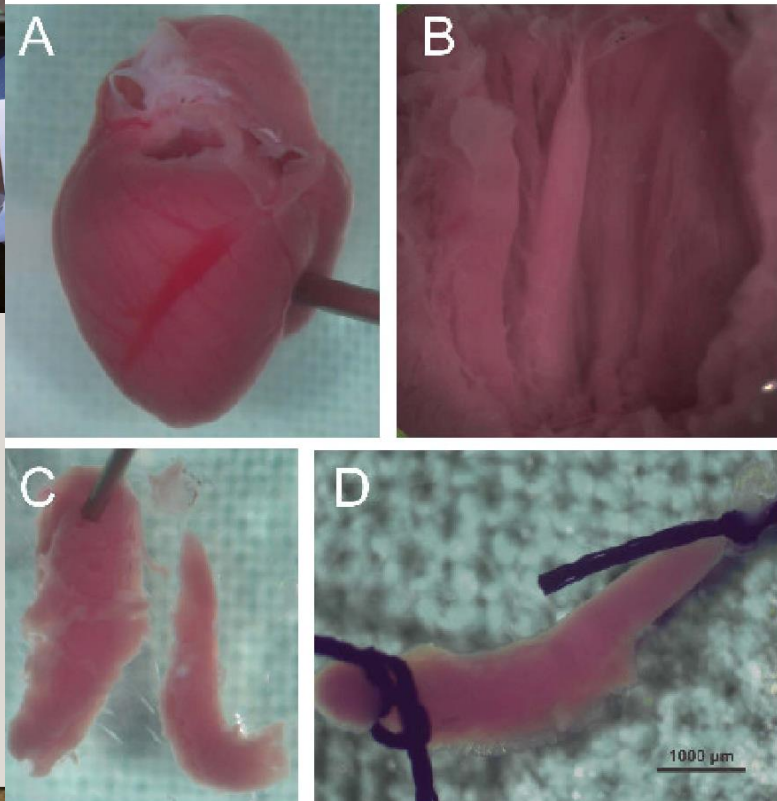
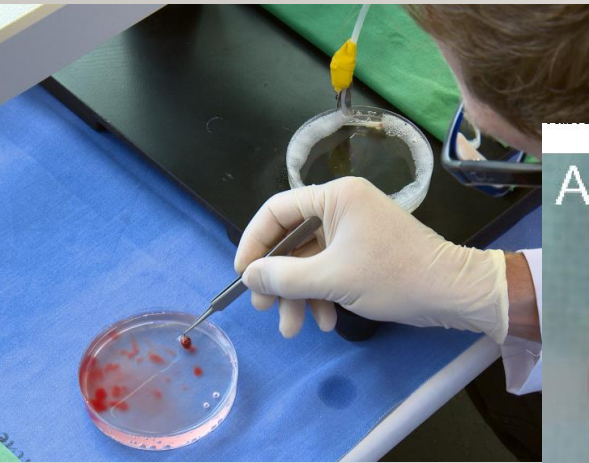
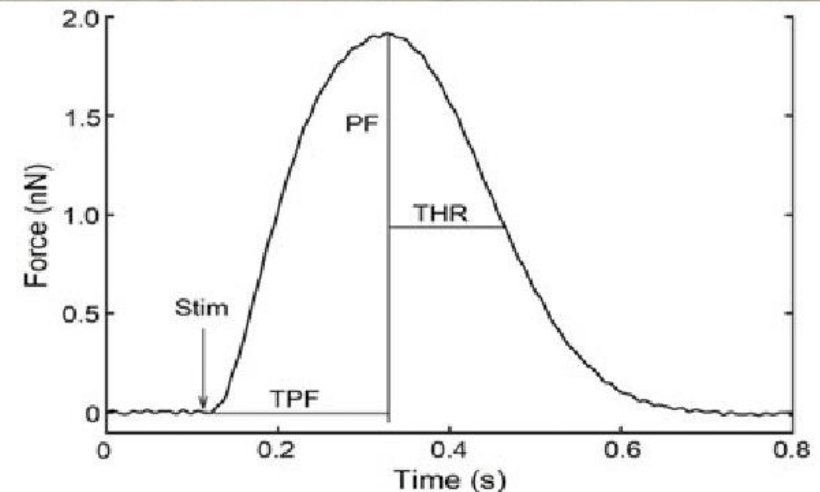
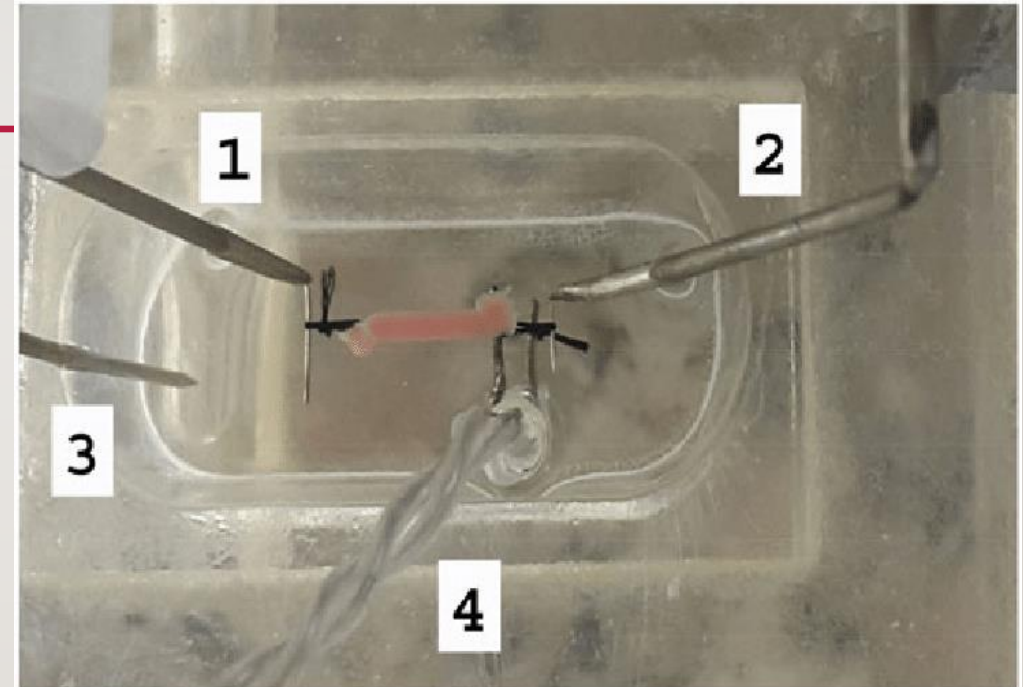
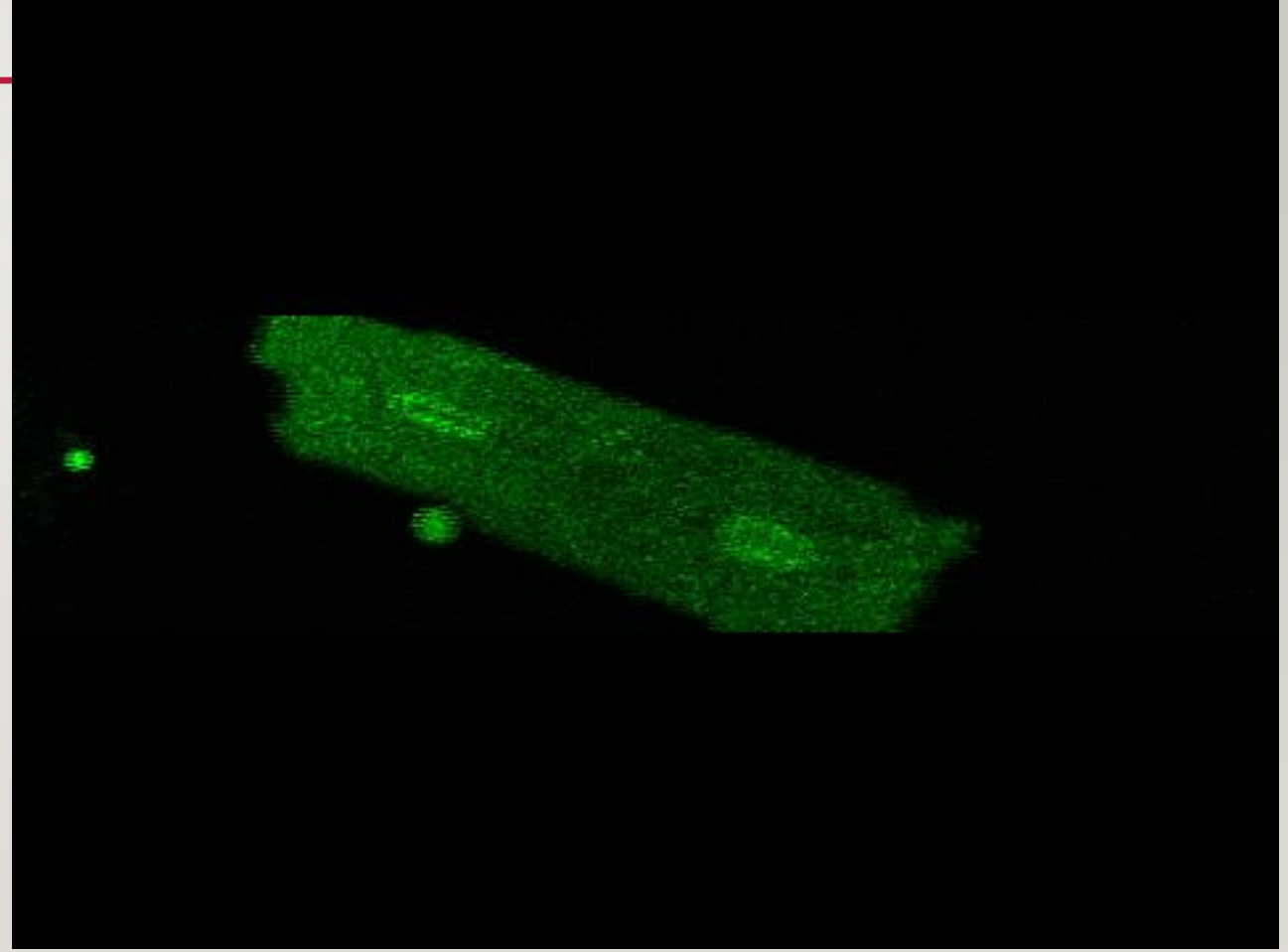
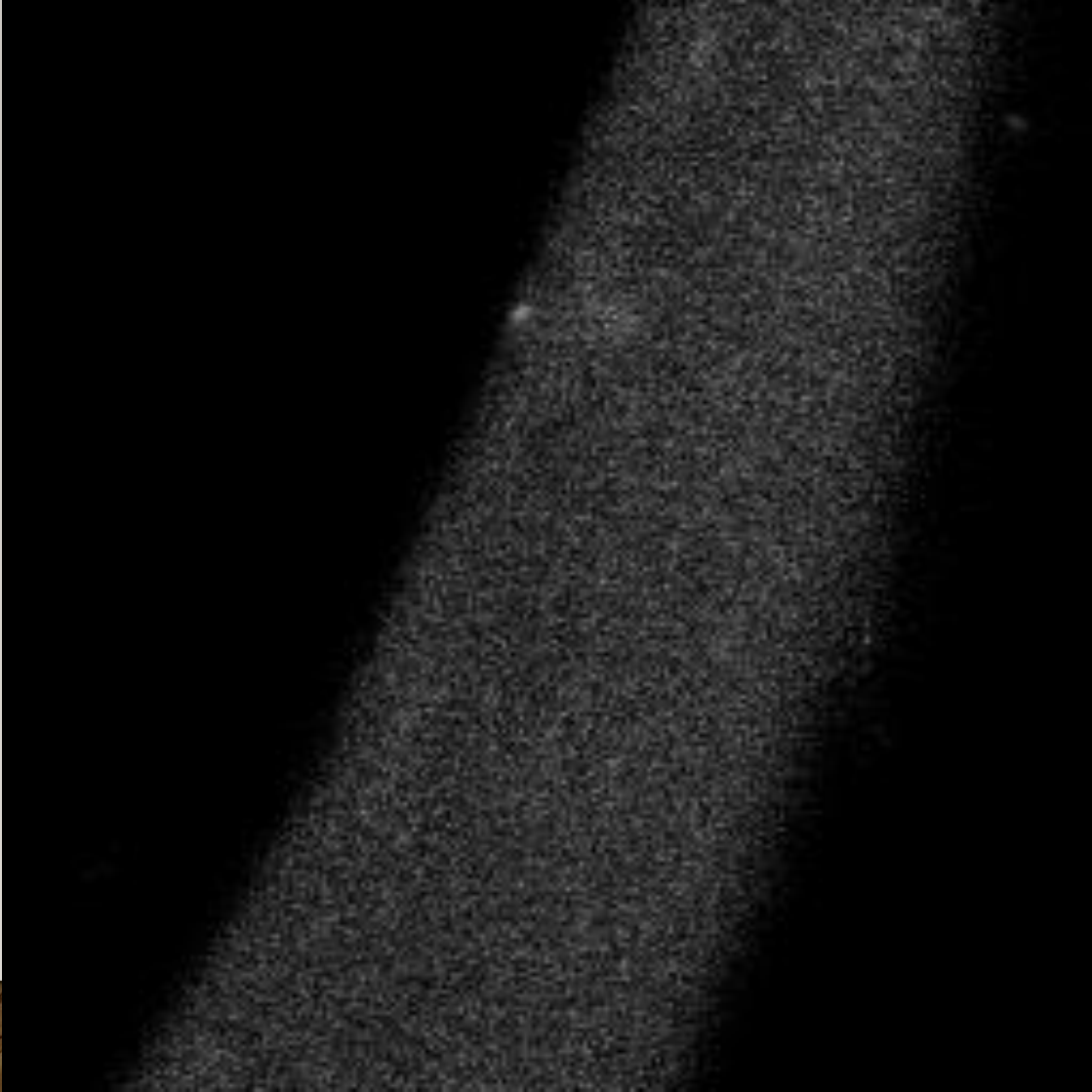


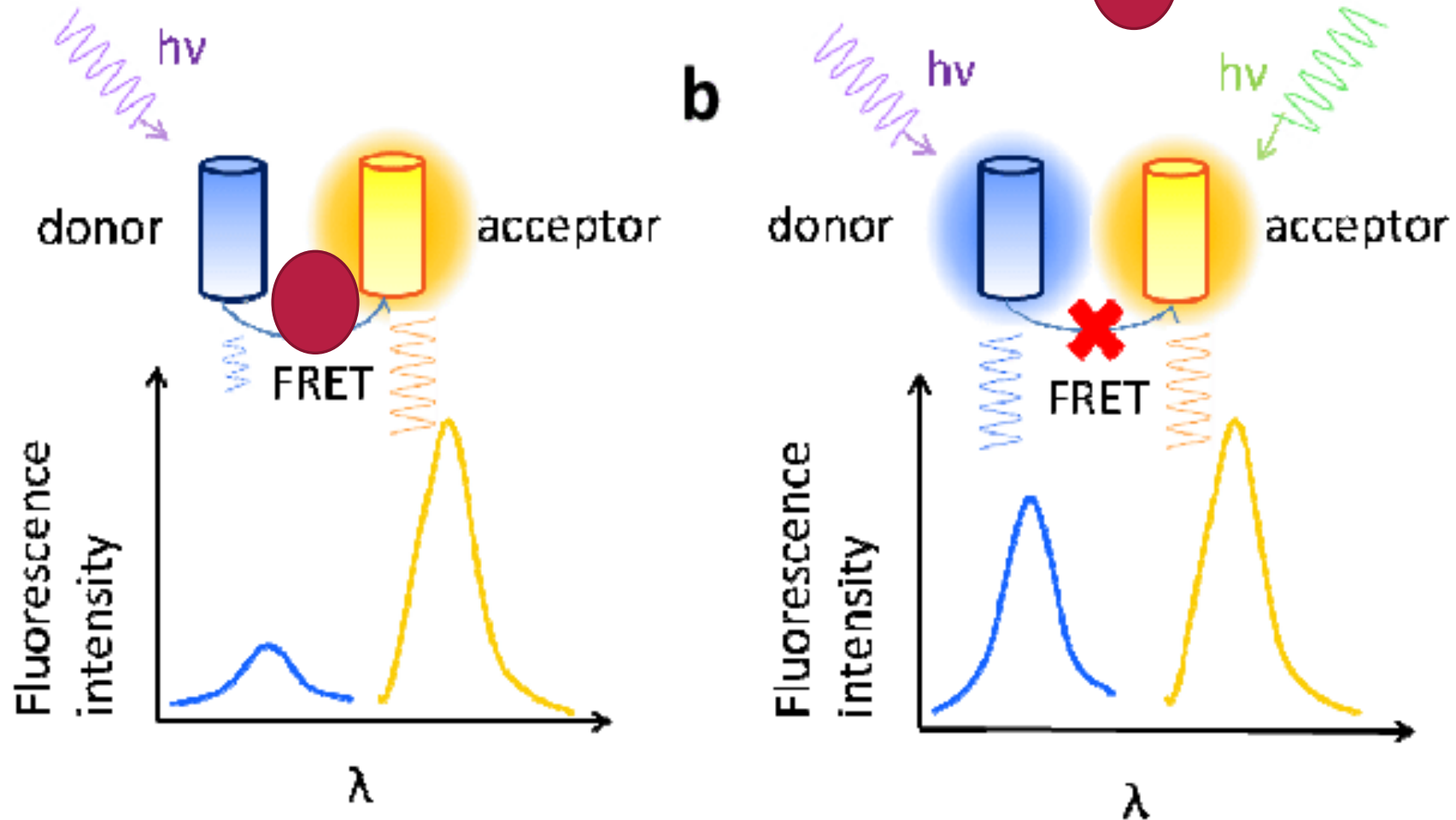
Figure 1. Key steps of the papillary muscle preparation. (A) Dissection of both atria. (B) \



HÜCRE İÇİ İYON GÖRÜNTÜLEME:

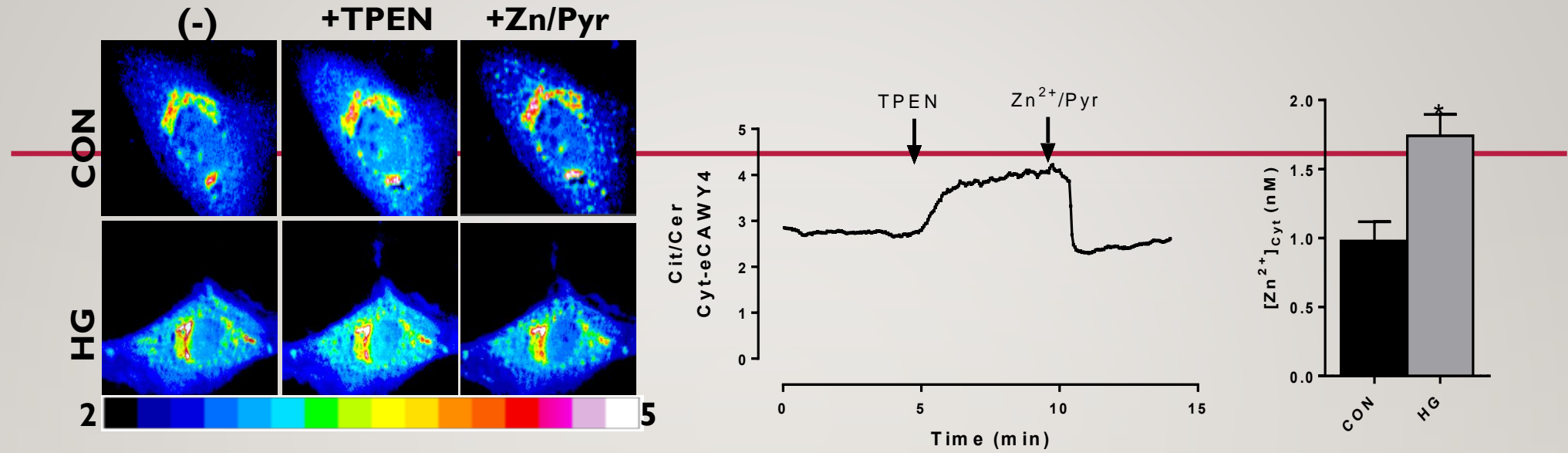


FLUORESCENCE RESONANCE ENERGY TRANSFER (FRET) YÖNTEMİ



Cytosolic and S(E)R Free Zn²⁺ Levels in H9c2 cells

A



B

