

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: An ultrasoft device on an isolated heart

An ultrasoft electrode array was attached to a beating mouse heart for ECG measurement, and no obvious movement of the device was found during the ECG recording. The video was recorded for 6 minutes and 40 seconds (accelerated by 16 times).

File Name: Supplementary Movie 2

Description: A conventional device on an isolated heart

A conventional device based on SEBS substrate was attached to a beating mouse heart for ECG measurement. The electrodes shifted up and rotated to the right within 1 minute during the recording. The video was recorded for 64 seconds (accelerated by 4 times).