

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Biowire II tissue cultured in RPMI+B27 media without electrical field pacing for 3 weeks.

File Name: Supplementary Movie 2

Description: Biowire II tissue cultured in RPMI+B27 media with 1 Hz electrical field pacing for 3 weeks.

File Name: Supplementary Movie 3

Description: Biowire II tissue cultured in C16 media without electrical field pacing for 3 weeks.

File Name: Supplementary Movie 4

Description: Biowire II tissue cultured in C16 media with 1 Hz electrical field pacing for 3 weeks.