

Title: Supplementary Movie 1:

Description: Spontaneously contracting atrial and ventricular EBs at day 20 of differentiation.

Title: Supplementary Movie 2:

Description: Representative spontaneous contraction of atrial and ventricular EHTs suspended on silicon stretchers.

Title: Supplementary Movie 3:

Description: Activation wave-front propagation in ventricular EHTs during spontaneous rhythm

Title: Supplementary Movie 4:

Description: Spontaneous development of different types of arrhythmias in the atrial EHTs.

Title: Supplementary Movie 5:

Description: Conversion of arrhythmias in atrial EHTs into normal rhythm using field stimulation.

Title: Supplementary Movie 6:

Description: Pharmacological conversion of arrhythmias in the atrial EHTs into normal rhythm by 10 μ M flecainide or 30 μ M verapamil.