**S9 Fig: Underlying Effects of hMSCs on hCM Ionic Currents During an Action Potential**



**S9 Fig: Underlying Effects of hMSCs on hCM Ionic Currents During an Action Potential:** hMSCs were coupled to midcardial hCMs in a 1:1 ratio to better understand the underlying effects of each type of hMSC. The hCM ionic currents analyzed include: (A) INa, (B) Ito, (C) ILCa, (D) IKs, (E) IKr, and (F) IK1. The largest effects occurred during phases 2, 3, and 4 of action potentials, when outward potassium currents govern repolarization. hEAG1-functional hMSCs resulted in the earliest initiation of phases 3 and 4.