## SUPPLEMENTAL MATERIAL

1

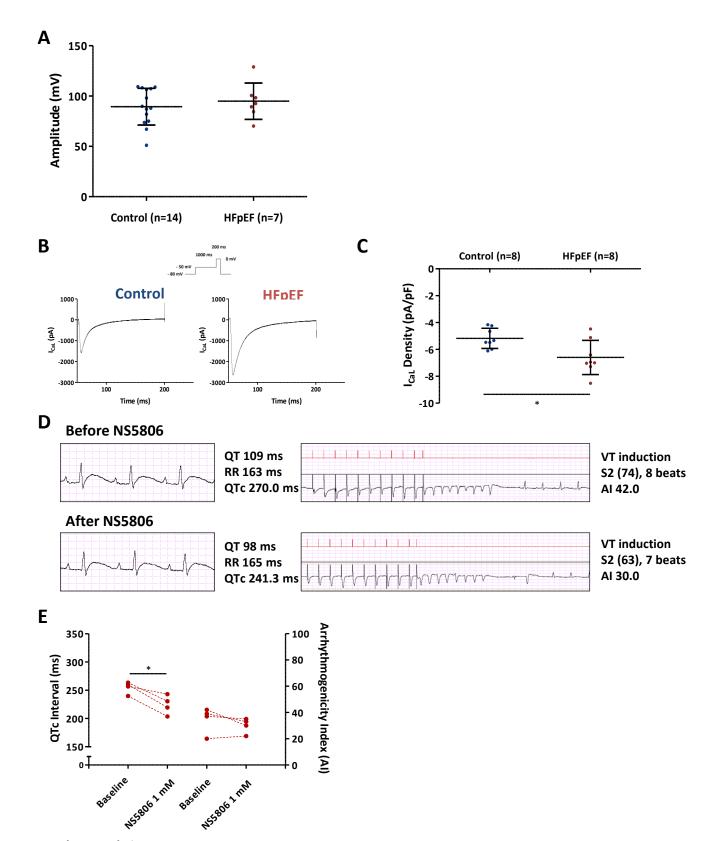
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## 2 SUPPLEMENTAL FIGURES

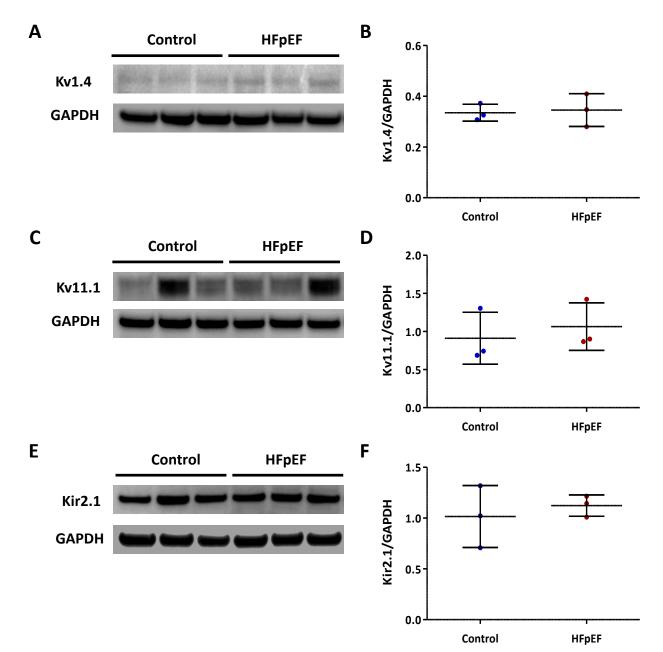
- 3 Supplemental Figure 1. A. Action potential amplitude was not different in control and HFpEF
- 4 cardiomyocytes. **B.** Representative recordings of  $I_{CaL}$  in control and HFpEF cardiomyocytes. **C.**  $I_{CaL}$  density
- 5 was mildly elevated at 0 mV in HFpEF myocytes compared to controls (n=8 cardiomyocytes from 4-5 rats
- 6 each group). D. Representative ECG and PES recordings before and after NS5806 in a HFpEF rat. E.
- 7 NS5806 was able to shorten QTc interval but did not improve arrhythmogenicity. Error line indicates mean
- 8 and standard deviation. \* denotes p<0.05 and \*\* denotes p<0.001. Unpaired t-test was used for 1A and C
- 9 and paired t-test was used for 1E.
- Supplemental Figure 2. Western blots of Kv1.4, Kv11.1 and Kir2.1 showed no expression differences in
- the two groups. Error line indicates mean and standard deviation. Unpaired t-test was used for 2B, D, E.

## 13 SUPPLEMENTAL VIDEOS

- 14 **Supplemental Video 1** No induction of ventricular arrhythmia in a control rat.
- 15 **Supplemental Video 2** Induction of polymorphic VT in a HFpEF rat.
- Supplemental Video 3 Multiple re-entry circuits during PES in a HFpEF rat with optical mapping.



**Supplemental Figure 1.** 



**Supplemental Figure 2.**