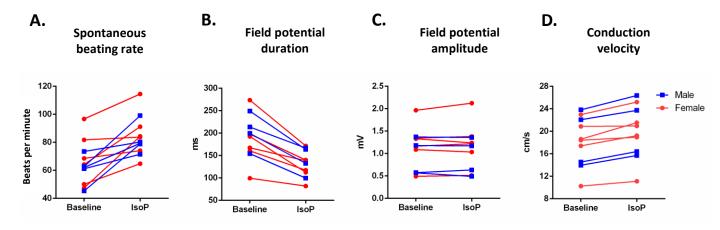
## Appendix A – Supplemental Data

# Cardiomyocyte functional screening – interrogating comparative electrophysiology of high-throughput model cell systems

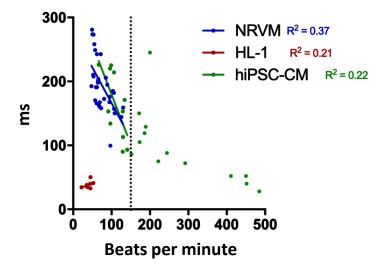
Simon P. Wells, Helen M. Waddell, Choon Boon Sim, Shiang Y. Lim, Gabriel B. Bernasochi, Davor Pavlovic, Paulus Kirchhof, Enzo R. Porrello, Lea M. D. Delbridge, James R. Bell

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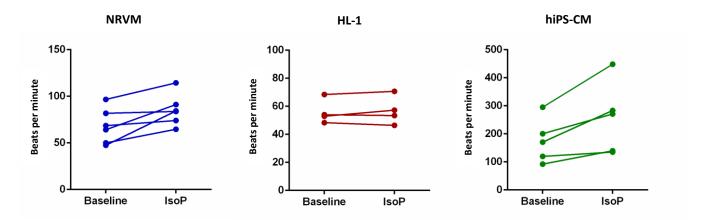


**Fig S1** | Individual responses of male (blue) and female (red) NRVMs to  $1\mu$ M isoproterenol. (**A**) Spontaneous beating rate (**B**) field potential duration, (**C**) field potential amplitude and (**D**) conduction velocity. *N*=5–6 cultures, *n*=6–7 MEAs.

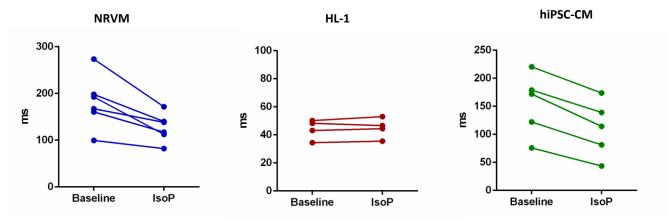


**Fig S2** |Spontaneous beating rate:Field potential duration relationship among NRVMs, HL-1 and hiPSC-CMs, with a linear regression fitted only to cells with rates  $\leq$ 150BPM.

### A. Spontaneous beating rate



#### B. Field potential duration



**Fig S3** | Individual responses of NRVMs, HL-1 and hiPSC-CMs to 1 $\mu$ M isoproterenol. (**A**) Spontaneous beating rate (**B**) field potential duration. NRVMs: *N*=6 cultures, *n*=7 MEAs; HL-1: *N*=4 passages, *n*=7 MEAs; hiPSC-CMs: *N*=5, *n*=22 MEAs.