

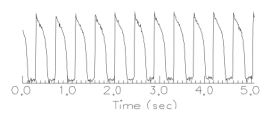
Cardiomyocyte-Targeting Peptide to Deliver Amiodarone

Maliha Zahid ^{1,*}, Beth Weber ², Ray Yurko ³, Kazi Islam ³, Vaishavi Agrawal ⁴, Jack Lopuszynski ¹, Hisato Yagi ⁵ and Guy Salama ²

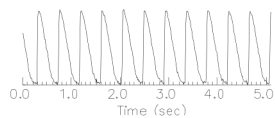
Supplemental Materials

Amio Injected Guinea Pigs

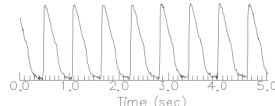
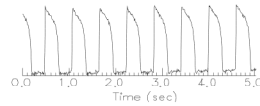
GP483
Sinus Rhythm (135bpm)
Voltage



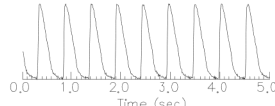
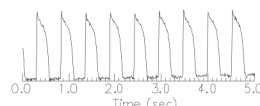
Calcium



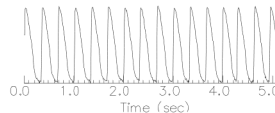
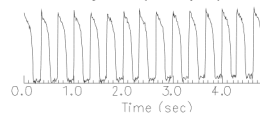
GP462
Sinus Rhythm (105bpm)
Voltage



GP461
Sinus Rhythm (105bpm)
Voltage

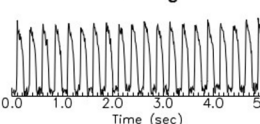


GP438
Sinus Rhythm (165bpm)
Voltage

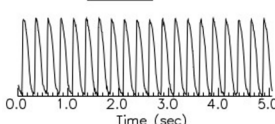


CTP Injected Guinea Pigs

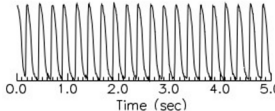
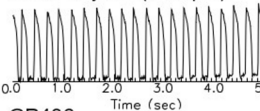
GP434
Sinus Rhythm (240bpm)
Voltage



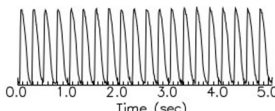
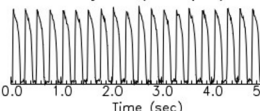
Calcium



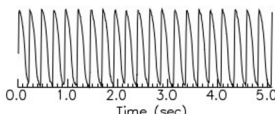
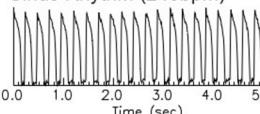
GP435
Sinus Rhythm (240bpm)
Voltage



GP436
Sinus Rhythm (240bpm)
Voltage

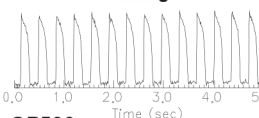


GP437
Sinus Rhythm (240bpm)
Voltage

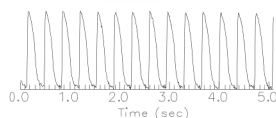


Control Guinea Pigs

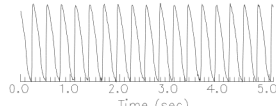
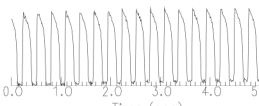
GP579
Sinus Rhythm (195bpm)
Voltage



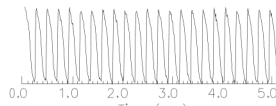
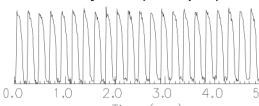
Calcium



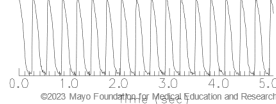
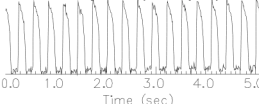
GP580
Sinus Rhythm (210bpm)
Voltage



GP583
Sinus Rhythm (240bpm)
Voltage

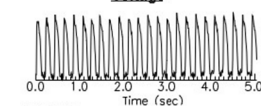


GP578
Sinus Rhythm (210bpm)
Voltage

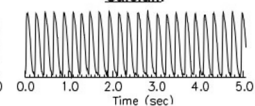


CTP-Amio Injected Guinea Pigs

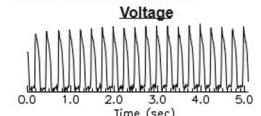
GP225
Sinus Rhythm (270bpm)
Voltage



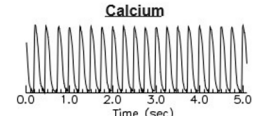
Calcium



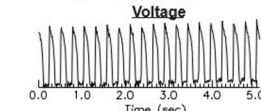
GP570
Sinus Rhythm (240bpm)
Voltage



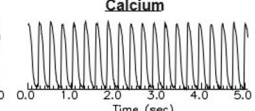
Calcium



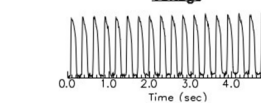
GP571
Sinus Rhythm (240bpm)
Voltage



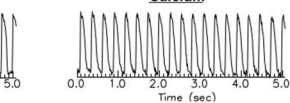
Calcium



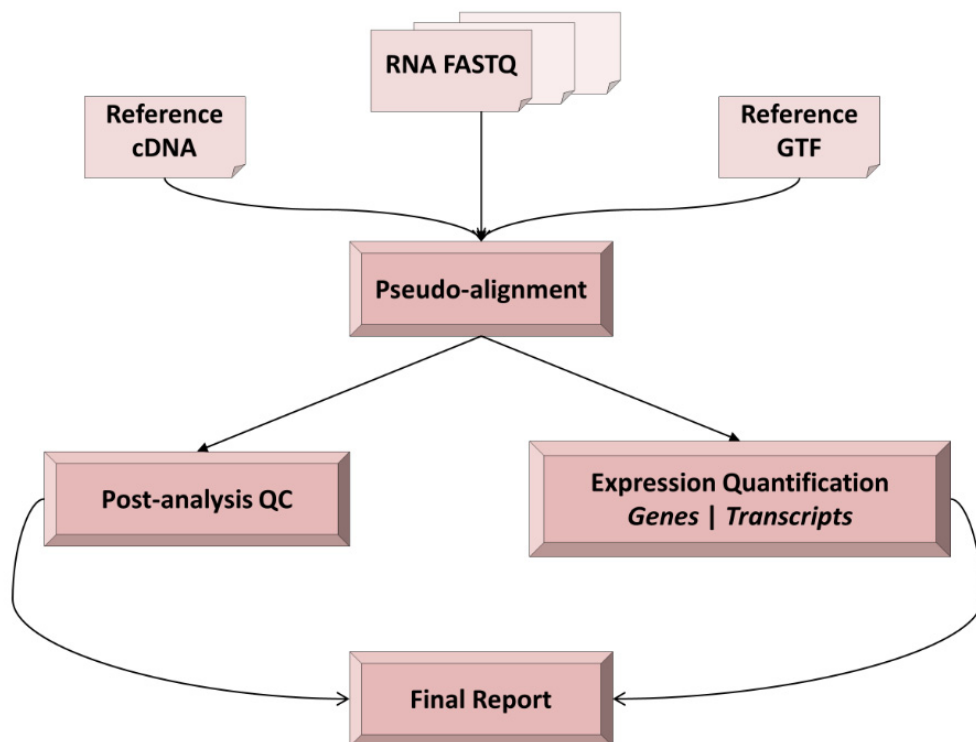
GP226
Sinus Rhythm (210bpm)
Voltage



Calcium

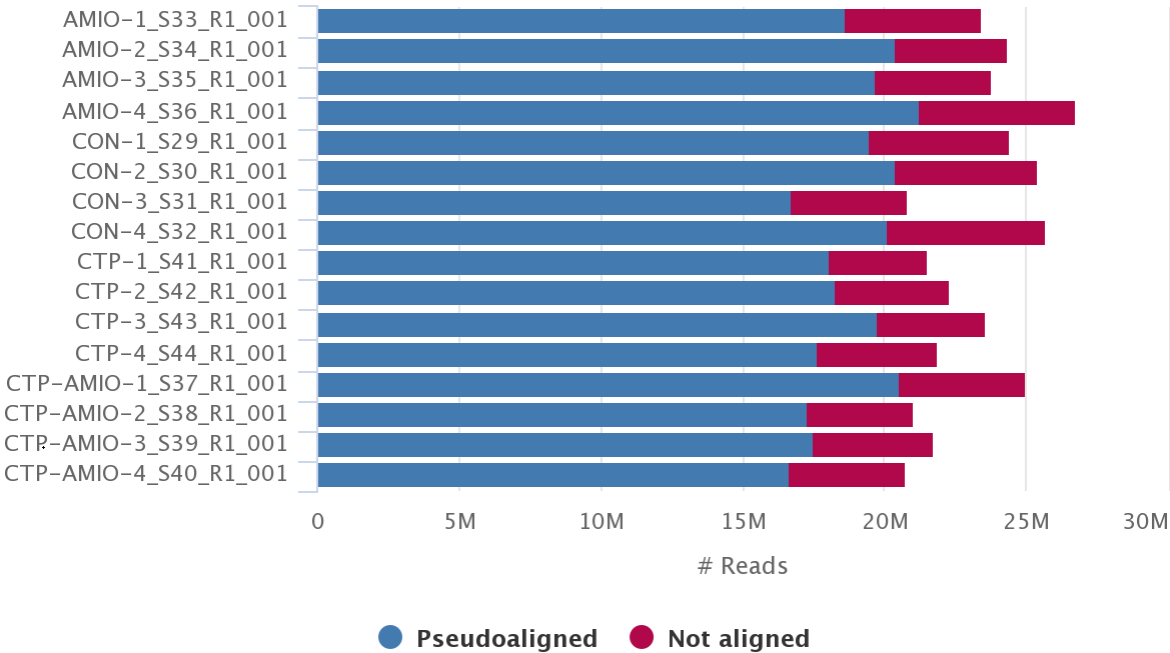


Supplemental Figure S1: Calcium and voltage measurements in each guinea pig injected with amiodarone, control (no injections), CTP, or CTP–amiodarone conjugate.



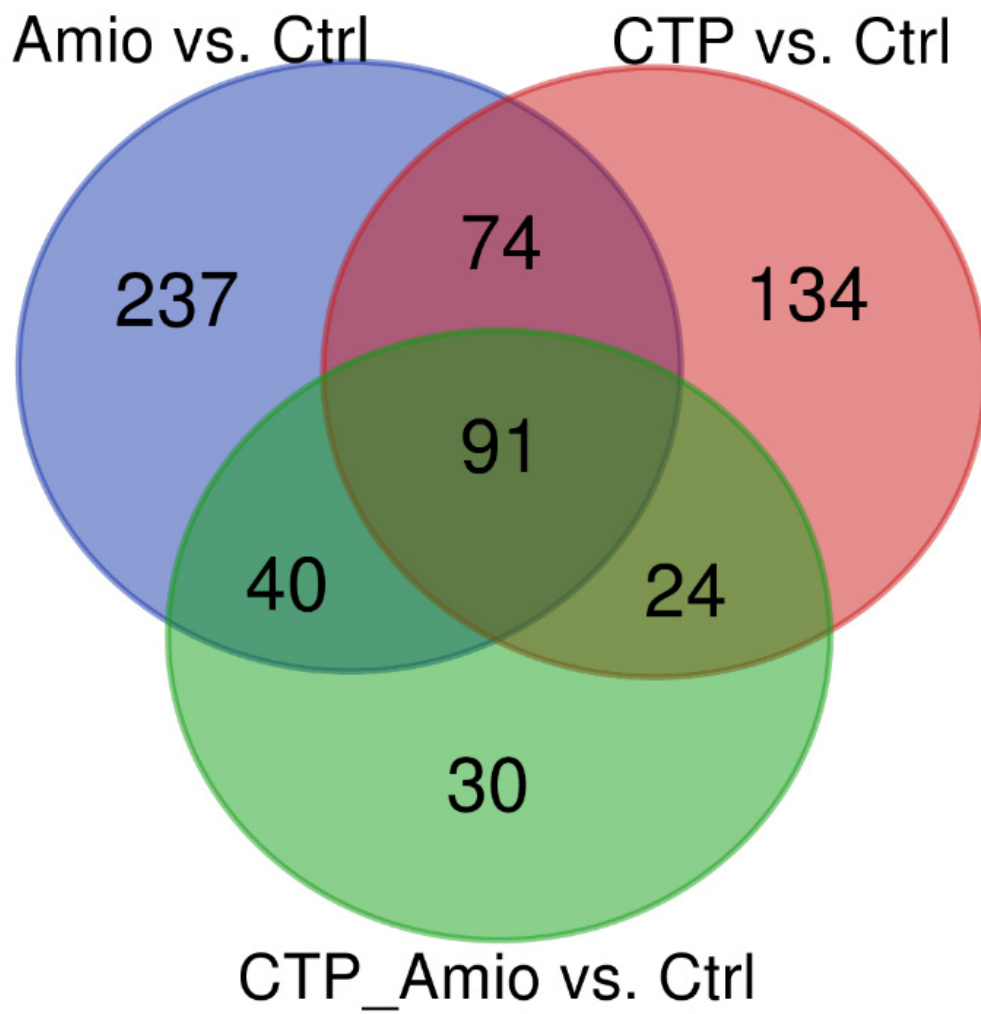
Supplemental Figure S2: Workflow of the RNA sequencing results' analyses.

Kallisto: Alignment Scores



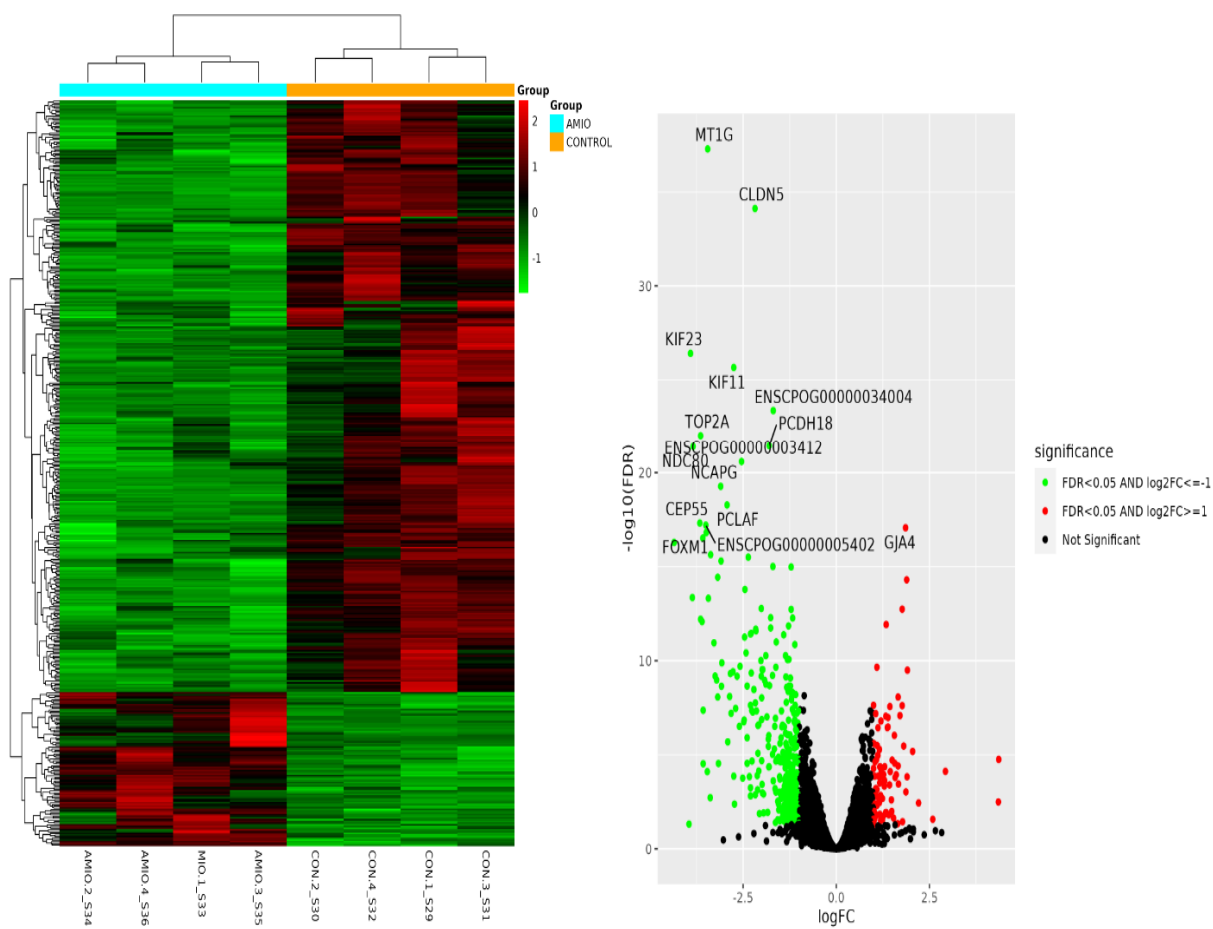
Sample Name	Frag Length	% Aligned	M Aligned
AMIO-1_S33_R1_001	161.3bp	79.5%	18.6
AMIO-2_S34_R1_001	159.2bp	83.6%	20.4
AMIO-3_S35_R1_001	164.7bp	82.9%	19.7
AMIO-4_S36_R1_001	157.2bp	79.5%	21.2
CON-1_S29_R1_001	153.7bp	79.9%	19.5
CON-2_S30_R1_001	155.6bp	80.3%	20.4
CON-3_S31_R1_001	168.1bp	80.3%	16.7
CON-4_S32_R1_001	152.0bp	78.3%	20.1
CTP-1_S41_R1_001	153.3bp	84.0%	18.1
CTP-2_S42_R1_001	156.5bp	81.8%	18.3
CTP-3_S43_R1_001	155.2bp	83.9%	19.8
CTP-4_S44_R1_001	161.9bp	80.6%	17.6
CTP-AMIO-1_S37_R1_001	157.4bp	82.1%	20.5
CTP-AMIO-2_S38_R1_001	153.9bp	82.1%	17.3
CTP-AMIO-3_S39_R1_001	163.7bp	80.7%	17.5
CTP-AMIO-4_S40_R1_001	158.0bp	80.3%	16.7

Supplemental Figure S3: Kallisto alignment of the samples and the resulting scores for each sample.

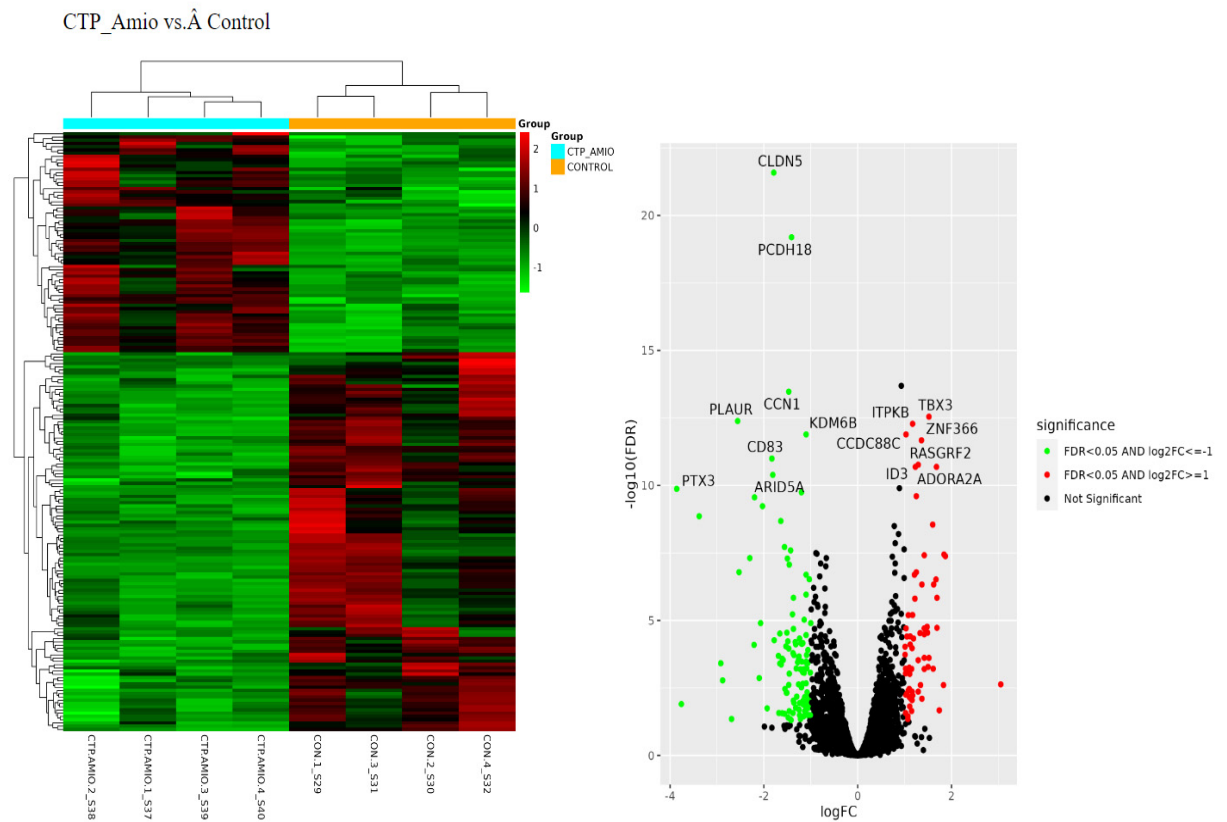


Supplemental Figure S4: Common and unique differentially expressed genes between amiodarone, CTP, CTP-amio and the control guinea pig hearts. The Venn diagram shows the overlap between the three differentially expressed gene sets.

Amio vs. Control



Supplemental Figure S5: Heatmap of the differentially expressed genes in guinea pig hearts of amiodarone-treated versus control animals.



Supplemental Figure S6: Heatmap of differentially expressed genes in guinea pig hearts of CTP-amio-treated versus control animals.

