

## Supplemental Tables

### Supplemental Table 1. Area measurements of cells expressing *myl7*, *vmhc* and *amhc*

when Wnt signaling is increased and decreased.

	n	<i>myl7</i>	s.d.	n	<i>vmhc</i>	s.d.	n	<i>amhc</i>	s.d.
cont hs@sphere	20	1.89	0.45	24	0.71	0.27	16	1.36	0.33
+wnt@sphere	28	*3.01	1.31	14	*1.07	0.36	12	*2.67	1.05
cont hs@shield	34	1.82	0.30	25	0.71	0.14	47	1.68	0.32
+wnt@shield	35	*1.09	0.54	26	0.72	0.17	45	*0.71	0.60
cont hs@tb	24	1.65	0.37	18	0.54	0.14	20	1.43	0.30
+wnt@tb	19	*0.00	0.00	24	*0.00	0.00	28	*0.03	0.17
cont hs@8s	19	1.50	0.34	24	0.82	0.21	26	1.47	0.30
+wnt@8s	18	*0.07	0.09	24	*0.04	0.05	25	*0.09	0.14
cont hs@16s	14	1.43	0.32	13	0.76	0.11	20	1.79	0.34
+wnt@16s	18	1.63	0.30	14	0.83	0.15	18	1.71	0.27

cont hs@sphere	22	1.59	0.29	15	0.73	0.09	34	1.21	0.25
-wnt@sphere	19	*0.89	0.42	13	*0.26	0.28	44	*0.70	0.52
cont hs@shield	30	1.94	0.34	25	0.97	0.21	24	1.95	0.40
-wnt@shield	25	2.08	0.28	36	0.99	0.25	23	*1.01	0.62
cont hs@tb	42	1.21	0.26	28	0.57	0.10	20	1.35	0.22
-wnt@tb	36	1.18	0.26	38	0.52	0.13	25	1.35	0.24
cont hs@8s	15	1.67	0.26	21	0.76	0.10	27	1.41	0.27
-wnt@8s	21	1.57	0.28	19	0.77	0.18	28	1.36	0.25
cont hs@16s	12	1.20	0.38	22	0.75	0.20	13	1.22	0.37
-wnt@16s	17	1.26	0.25	20	0.70	0.13	18	1.21	0.27

Measurements are in arbitrary units. Asterisks indicate  $p < 0.05$  relative to controls as determined using Student's t-test.

### Supplemental Table 2. Number of atrial and ventricular cells in hearts at 48 hpf

after Wnt signaling is decreased at the TB stage.

	n	atrial	s.d.	ventricular	s.d.
control hs@tb	25	70.3	13.4	95.7	22.3
-wnt@tb	32	71.3	14.6	88.9	18.7

**Supplemental Table 3. Number of atrial and ventricular cells in hearts at 48 hpf when Wnt signaling is modulated at 16s.**

	<b>n</b>	<b>atrial</b>	<b>s.d.</b>	<b>ventricular</b>	<b>s.d.</b>
<b>control (1)</b>	16	88.6	11.7	120.4	18.8
<b>+wnt@16s (1)</b>	17	*104.9	16.4	122.8	26.9
<b>*control (2)</b>	27	84.7	23.0	104.1	20.6
<b>*+wnt@16s (2)</b>	27	*98.3	17.3	111.0	17.1
<b>control hs@16s(1)</b>	40	88.7	15.4	107.9	19.5
<b>-wnt@16s (1)</b>	47	83.9	15.5	112.8	18.1
<b>control hs@16s(2)</b>	28	88.4	14.8	107.0	18.4
<b>-wnt@16s (2)</b>	36	83.6	18.9	106.0	19.5
<b>*control hs@16s(3)</b>	24	104.0	13.6	122.6	15.6
<b>*-wnt@16s (3)</b>	26	*93.9	18.4	117.3	20.9

Asterisks indicate  $p < 0.05$  relative to controls as determined using Student's t-test.

**Supplemental Table 4. Area measurements of cells expressing *nkx2.5* and *tbx5a* after Wnt is increased at 16s.**

	<b>n</b>	<b><i>nkx2.5</i></b>	<b>s.d.</b>	<b>n</b>	<b><i>tbx5a</i></b>	<b>s.d.</b>
<b>control hs@16s</b>	11	1.16	0.28	12	2.01	0.59
<b>+wnt@16s</b>	15	1.26	0.26	16	*2.60	0.51

Measurements are in arbitrary units. Asterisks indicate  $p < 0.05$  relative to controls as determined using Student's t-test.

**Supplemental Table 5. pHH3 positive cells in the atrial myocardium/endocardium at 24 hpf after Wnt has been increased at 16s.**

	<b>n</b>	<b>*myo+endo</b>	<b>**Ave. pHH3 myo+endo/embryo</b>
<b>control hs@16s</b>	34	14 (41%)	0.5
<b>+wnt@16s</b>	19	9 (47%)	0.58

\*Indicates the total number and percentage of embryos with pHH3 positive myocardial and endocardial cells.

\*\*Indicates the average number of pHH3 positive cells per embryo.

**Supplemental Table 6. pHH3 positive cells in the atrial myocardium and endocardium at 26 hpf after Wnt has been increased at 16s.**

	<b>n</b>	<b>*myo</b>	<b>**Ave. pHH3 myo/embryo</b>	<b>*endo</b>	<b>**Ave. pHH3 endo/embryo</b>
<b>control hs@16s</b>	47	13 (28%)	0.3	22 (47%)	0.81
<b>+wnt@16s</b>	50	14 (28%)	0.3	25 (50%)	0.72

\*Indicates the total number and percentage of embryos with pHH3 positive myocardial or endocardial cells.

\*\*Indicates the average number of pHH3 positive myocardial or endocardial cells per embryo.