

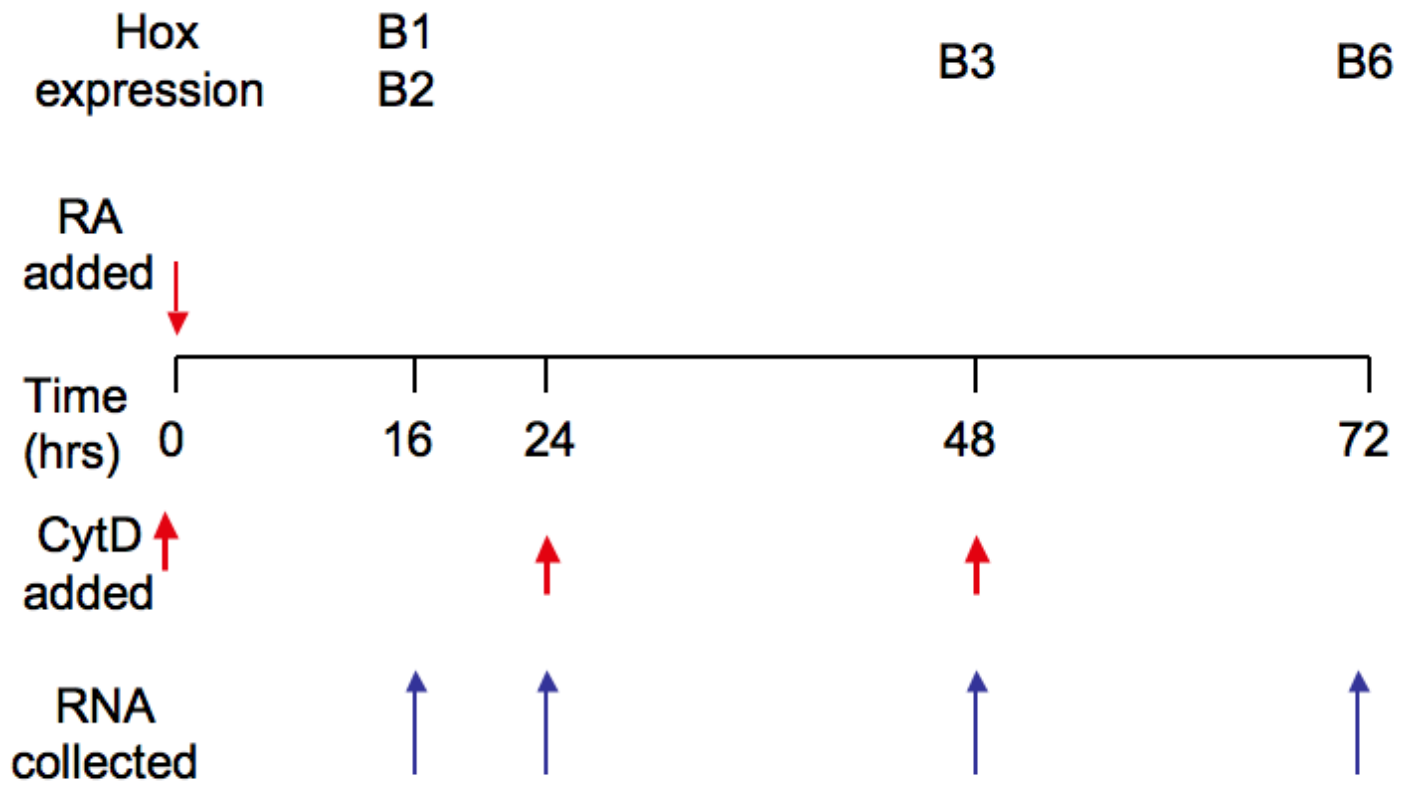
Supplemental Table 1

Latrunculin A inhibits the transcription of HoxB genes. Level of the respective mRNAs at different times after addition of RA at t=0.

| | t=0 | t=16h p RA | t=16h p RA LAT at t=0 | t=48h p RA | t=48h p RA LAT at t=24h | t=72h p RA | t=72h p RA LAT at t=48h |
|--------------|-----|---------------------|----------------------------|------------------|---------------------------------|-------------------|----------------------------------|
| HoxB1 | 0 | 1.0 0.82-1.22 | 0.83 0.85-0.81 | 1.0 1.07-0.94 | 0.65 0.73-0.58 | 1.0 1.22-0.82 | 1.07 1.25-0.92 |
| HoxB2 | 0 | 1.0 0.951-1.0521 | 0.86 1.097-0.637 | 1.0 | 0.65 0-79-0.53 | 1.0 0.876-1.14 | ND |
| HoxB3 | 0 | 0 | 0 | 1.12-0.89 | 0.25 0.35-0.18 | 1.0 1.2-0.83 | 0.80 0.93-0.69 |
| HoxB6 | 0 | 0 | 0 | 0 | 0 | 1.0 1.13-0.89 | 0.55 0.383-0.79 |

In all cases, RA was added at t=0. LatA was added 24 h before the time of RNA measurement, except at the 16h time-point when LatA had been added with RA at t=0.

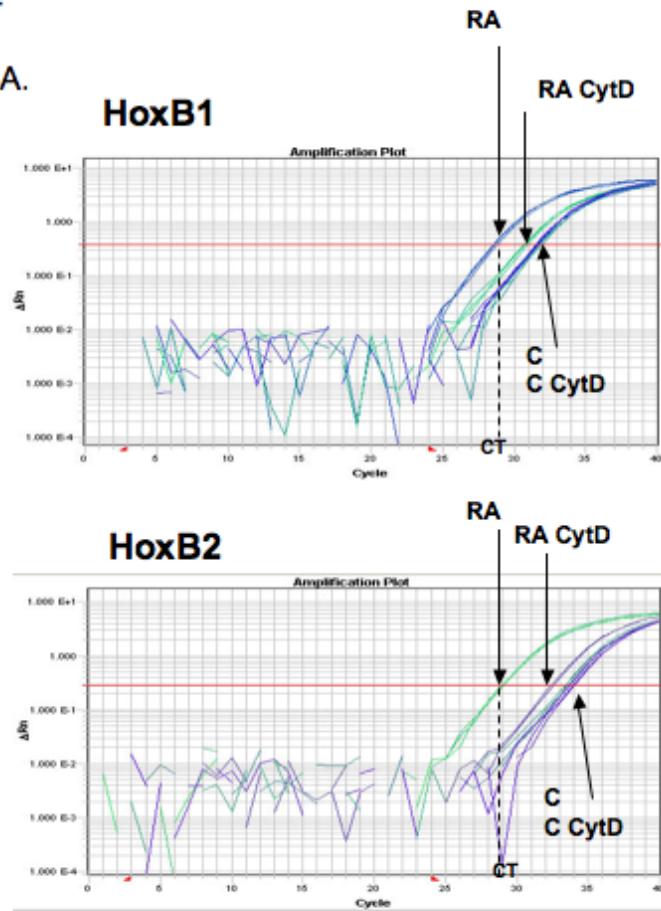
The numbers highlighted in **bold** show the inhibition of transcription by LatA.

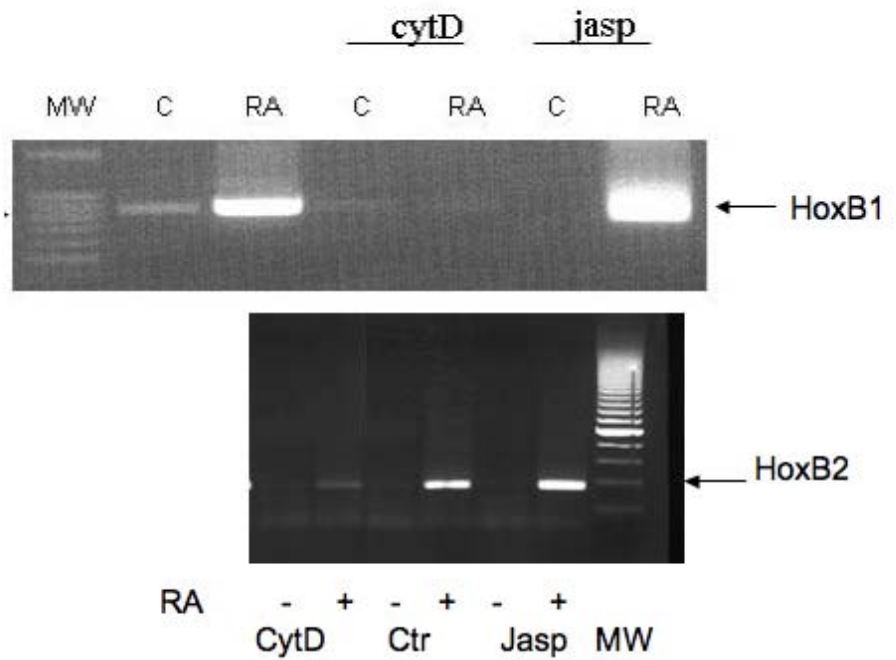


Suppl. Figure 1. Cells were treated with retinoic acid at time 0 (red arrow). Cyt D (red arrow) was added either at 0, or at 24 or at 48 hrs. RNA was extracted at 16, 24, 48 or 72 hrs (blue arrows).

Supplementary Figure 2:
Original tracing of the Q-PCR measurement of HoxB1 and HoxB2 mRNA.

16h RA
16h CytD





Supplemental Figure 3

Drugs that inhibit (100nM CytD) or stabilize (70 nM Jaspaklinolide) actin polymerization, inhibit or potentiate the induction of HoxB1 and HoxB2 transcription by 1 μ M Retinoic acid (RA). Ctr= untreated.