

Table S2. Percent of embryos with *Xnr-1* signal in each location, indicating that *Xnr-1* localization is often abnormal in conjoined twins

Induced axis	Left	Right	Both	Neither	Middle	Middle + Left	Middle + Right	Middle + Both	<i>Xnr-1</i> mislocalization in either twin (%)
None	97	0	1	2	0	0	0	0	3
Right	45	9	11	27	0	5	2	0	50*
Left	27	15	17	17	12	5	5	2	56*

Fixed embryos were examined at stage 22 for the localization of a probe for *Xnr-1* mRNA. *Xnr-1* was localized predominantly on the left side of untreated singleton embryos. However, when twins were induced, either on the right or the left side, *Xnr-1* expression was mislocalized in 50 or 56% of embryos, respectively. This data correlates with organ situs, because we observed that the right sided twin has random organ placement approximately 50% of the time. Bolded values indicate abnormal localization. *, $P < 0.001$ compared to untreated controls.