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Abstract. The mammalian preimplantation embryo is a highly tractable, self-organizing developmental system in which three cell types are consistently specified without the need for maternal factors or external signals. Studies in the mouse over the past decades have greatly improved our understanding of the cues that trigger symmetry breaking in the embryo, the transcription factors that control lineage specification and commitment, and the mechanical forces that drive morphogenesis and ...

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Abstract. During vertebrate development, brain patterning and head morphogenesis are tightly coordinated. In this paper, we study these processes in the mouse mutant Fused toes ( Ft ), which presents severe head defects at midgestation. The Ft line carries a 1.6-Mb deletion on chromosome 8.

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