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Asymmetry and Pre-Pattern in Mammalian Development. Anterior Posterior Patterning of the Mouse Body Axis at Gastrulation. Left-Right Asymmetry. Patterning, Regionalization and Cell Differentiation in the Forebrain Establishment of Anterior-Posterior and Dorsal-Ventral Pattern in the Early Central Nervous System.

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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 ...

Coordination between patterning and morphogenesis ensures ...

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Mammalian development has a unique requirement for complex interactions between embryonic and uterine tissues, and the first cell fate decision in the mouse embryo is the choice between embryonic and extraembryonic lineages. After implantation, germ layer organization and tissue specification in the mouse embryo depend on coupled morphogenetic movements and intercellular signals, processes not paralleled in invertebrate embryos.

Analysis of mouse embryonic patterning and morphogenesis ...

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The morphologic data, together with an analysis of changes in the molecular patterning of Fgf3mutant otic vesicles, and comparisons with other mutations affecting otic morphogenesis, allow placement of Fgf3between hindbrain-expressed Hoxa1and Mafb(Kr) and otic vesicle-expressed Gbx2in the genetic cascade initiated by WNT signaling that leads to dorsal otic patterning and endolymphatic duct formation.

Fgf3 is required for dorsal patterning and morphogenesis ...

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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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