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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.

Mouse Development - 1st Edition

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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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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