



Generation and Interpretation of Morphogen Gradients (Cold Spring Harbor Laboratory)

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Signaling by diffusible morphogens, such as Hedgehog, Wingless, TGF- β , and various growth factors, is essential during embryogenesis. The establishment of concentration gradients of these morphogens is vital for developmental patterning, ensuring that distinct differentiated cell types appear in the right place and at the right time in forming tissues.

Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Biology explores how morphogen gradients are generated and interpreted during development. The contributors examine the regulation of morphogen synthesis, trafficking, and diffusion, as well as the complex webs of signaling mechanisms and transcriptional responses in recipient cells --whose fates are dictated by these morphogens. Including discussion of the roles of morphogen gradients in various tissues in organisms from yeast to humans, the volume is a vital reference for developmental biologists and cell biologists wishing to know how cell fate is determined during embryogenesis.

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