Bicoid

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Bicoid is the protein product of a maternal-effect gene unique to flies of the genus Drosophila. In 1988 Christiane Nüsslein-Volhard identified bicoid as the first known morphogen. A morphogen is a molecule that determines the fate and phenotype of a group of cells through a concentration gradient across that developing region. The bicoid gradient, which extends across the anterior-posterior axis of Drosophila embryos, organizes the head and thorax.

Subject

Nüsslein-Volhard, C. (Christiane)  
Embryos  
Morphogenesis  
Turing, Alan Mathison, 1912-1954  
Morgan, Thomas Hunt, 1866-1945  
Crick, Francis, 1916-2004  
Wieschaus, Eric F.  
Genes  
Driever, Wolfgang  
Homeobox genes  
bicoid protein, Drosophila

Topic

Processes

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