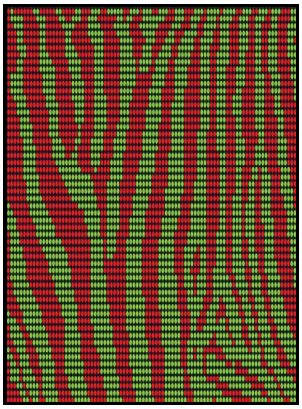
Oscillations and morphogenesis

M. Dekker. - The Chemical Basis of Morphogenesis on JSTOR



Description: -
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Radioactive pollution -- Environmental aspects -- Japan -- Akita-ken.
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Biological rhythms.
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Morphogenesis.Oscillations and morphogenesis
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Literature, culture, theory ;
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However, as the length of cell cycle is similar throughout the middle and distal mandibular process, that quantity alone does not appear to be responsible for the initial morphogenesis of the mandibular prominence. Oscillatory cell contractions and epithelial bending have been associated to the periodic accumulation of the cortical actomyosin network. To further characterize this morphogenetic process at tissue level, we locally ablate the neuroepithelium to map mechanical tensions through development.

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The mean area indicates a progressive constriction of the basal, but not apical surfaces over time D, H. Future studies will focus on how cells sense and convert mechanical signals from muscles to generate specific cell behavior for tissue morphogenesis, which remains an important question in the field.

Oscillatory control of Delta

Linear regression line orange and linear correlation coefficient 0. Craniofacial examples are included when applicable. This imaging confirmed that a sheet of precursor cells progressively bends towards its basal surface to form the curved shape of the eyeball.

Analysis of cellular behavior and cytoskeletal dynamics reveal a constriction mechanism driving optic cup morphogenesis

The differential tissue response upon ablation at the apical and basal surfaces, together with our previous observations on lamc1 requirement for basal contractility prompted us to investigate tissue behavior in lamc1 morphants. As previously reported for vertebrate neuroepithelial cells , actin accumulated circumferentially i.

Bioelectrochemical oscillations in signal transduction and acupuncture

This results in a balance of forces that stabilizes transiently cell and tissue shapes for each stage of the developmental program that builds up a given

organ.

Bioelectrochemical oscillations in signal transduction and acupuncture

Interestingly, the progressive reduction of the cellular feet observed in control retinas was severally impaired in embryos injected with lamc1 morpholinos lamc1Mo , and basal cell areas appeared significantly larger when compared to the control situation. Processed images were segmented and individual cell areas tracked through time.

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