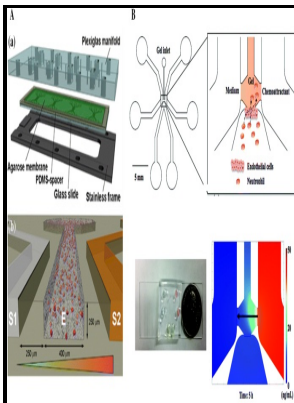


Computer-assisted analyses of cell locomotion and chemotaxis

CRC Press - Quantitative analysis of cell motility and chemotaxis in *Dictyostelium discoideum* by using an image processing system and a novel chemotaxis chamber providing stationary chemical gradients



Description: -

- Charlwood (Sussex) -- History.

Chemotaxis.

Cell Movement.

Automatic Data Processing -- methods.

Chemotaxis -- Data processing.

Cells -- Motility -- Data processing. Computer-assisted analyses of cell locomotion and chemotaxis

-Computer-assisted analyses of cell locomotion and chemotaxis

Notes: Includes bibliographies and index.

This edition was published in 1986



Filesize: 67.108 MB

Tags: #Shared, #unique #and #redundant #functions #of #three #members #of #the #class #I #myosins #(MyoA, #MyoB #and #MyoF) #in #motility #and #chemotaxis #in #Dictyostelium

Depolarization of the cell membrane causes inhibition of cell locomotion and pinocytosis in *Acanthamoeba castellanii* and *Amoeba proteus*

Briefly, cells were dispersed on the glass wall of a Sykes-Moore chamber. Cells of wild-type strains will exhibit clearly identifiable surges in the front of two or all of the last three in a series of four waves.

Computer

Another mechanism, perhaps requiring one of the two remaining amoeboid class I myosins, MyoC and MyoD, might then account for the response to the later waves of cAMP. Cells immediately centripetal to them respond by in turn releasing pulses of cAMP.

Chemotaxis of *Amoeba proteus* in the developing pH gradient within a pocket

Cells of all mutant strains react chemotactically in a spatial gradient of cAMP less efficiently and with reduced velocity, as revealed by perimeter tracks of representative control and mutant cells.

Computer

These questions have been addressed through a detailed analysis and comparison of single and double mutants. Cyclic behavior revealed by vector flow plots. Average number per 10 minutes.

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