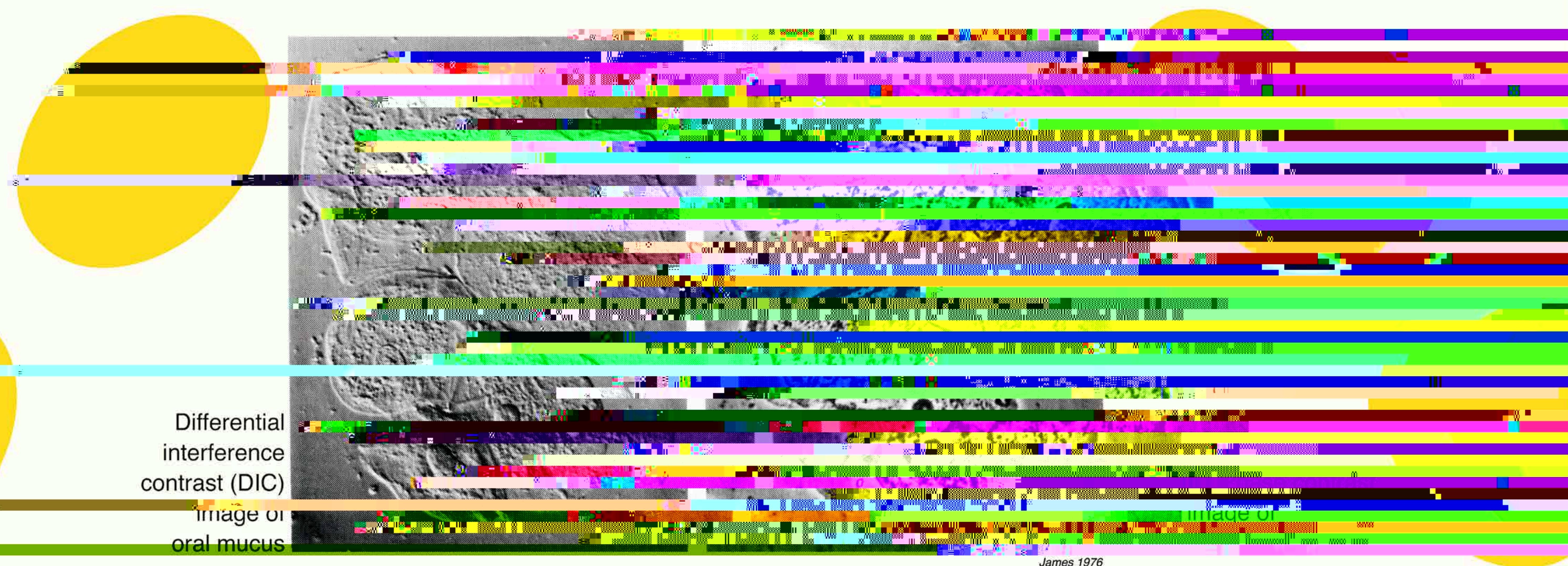


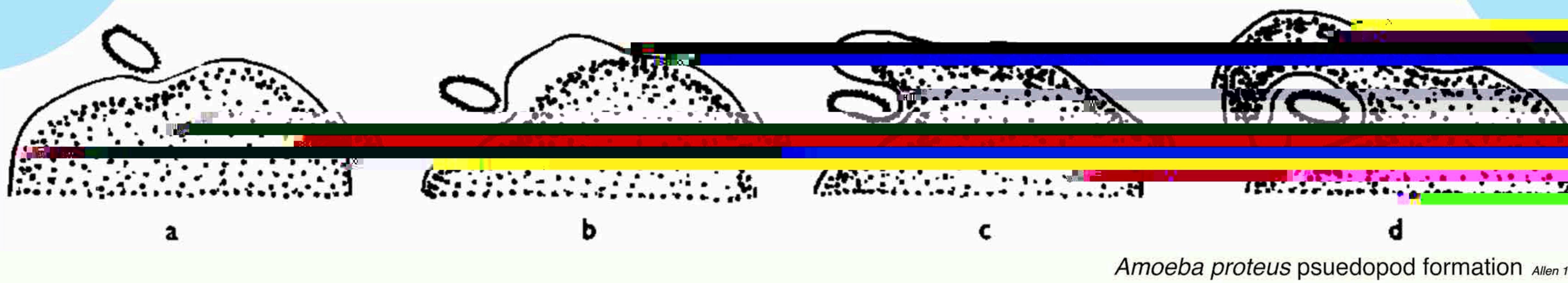
# INSIDE LIVING CELLS

In the 20th century, invention of new purely optical methods, such as differential interference contrast and phase contrast, enabled researchers to study living cells and their organelles in motion...

These inventions made observing living cells much easier. Researchers realized that cells only move as a whole, but they contain individual organelles that move independently.



To study the mechanisms of this motion, biologists like the MRI's Robert Allen hooked up movie cameras to his microscope and recorded the movement of cells, like amoebae, over time.



Seeing and documenting living cells in motion transformed how people thought of cells. Once static, fixed structures, cells and their parts were now visible as dynamic entities moving within the cell as a whole, like cells within a body.

Focusing attention further inside cells raised the question: how do these parts move within the cell?