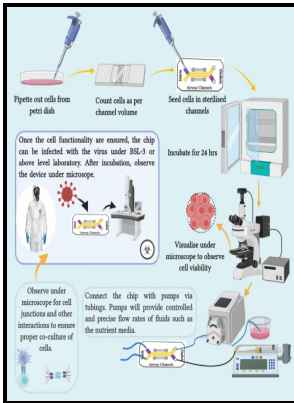


# Microscale fluid dynamic effects in suspension processing and attrition of cell cultures

University of Birmingham - Turbulent Shear Stress Effects on Plant Cell Suspension Cultures



Description: -

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Notes: Thesis (Ph.D) - University of Birmingham, School of Chemical Engineering, 1992.

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## Population Balance Modeling of Growth and Secondary Nucleation by Attrition and Ripening

Culturing cells in a chamber in a stack of chambers 2002-01-31 2003-07-31 King-Ming Chang Cell-cultivating device 2000-05-25 2003-08-21 Anderson Janelle R. Large cell death was observed in static 3D, dynamic 3D and 2D culturing, especially after day 3 or when the cell density reached  $\sim 1$ . The two approaches have specific challenges, and they exhibit different pros and cons.

## Microscale screening systems for 3D cellular microenvironments: platforms, advances, and challenges

Traditionally, suspension culture systems are employed for the scale-up manufacturing of biologics via bioprocessing systems that heavily rely upon various types of bioreactors. Thus, confocal imaging with automated image processing is a superior alternative for obtaining cell dimension data for non-spherical cells.

## Microscale screening systems for 3D cellular microenvironments: platforms, advances, and challenges

To stain 3D fibrous cell mass, the cell mass was harvested and fixed with 4% PFA at room temperature for 30 min, and then incubated with PBS + 0. Integrative biology: quantitative biosciences from nano to macro.

## Cellular bias on the microscale: probing the effects of digital microfluidic actuation on mammalian cell health, fitness and phenotype

For comparison, in 3D suspension culturing, we typically achieve 4-fold expansion per 4 days to yield around 2. This should not be taken to limit the invention, which, using the teachings provided herein, can be applied to a number of other situations.

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