

Cell Science, Stem Cell Research & Pharmacological Regenerative Medicine

November 29-30, 2017 | Atlanta, USA

Culture of animal cell

Sudha G Bansode

Shankarrao Mohite College, India

Cell culture has become an indispensable technology in many branches of the life sciences. It provides the basis for studying the regulation of cell proliferation, differentiation and product formation in carefully controlled conditions, with processes and analytical tools which are scalable from the level of the single cell to in excess of 10 kg wet weight of cells. Cell culture has also provided the means to define almost the entire human genome and to dissect the pathways of intracellular and intercellular signaling which ultimately regulate gene expression. Roller bottle culture is considered the first scale-up step for anchorage-dependent cells from stationary flasks or bottles. This is achieved by using all the internal surface for cell growth, rather than just the bottom of a bottle. The added advantages are that: A smaller volume of medium and thus a higher product titre can be achieved; the cells are more efficiently oxygenated

due to alternative exposure to medium and the gas phase; and dynamic systems usually generate higher unit cell densities than stationary systems.

Speaker Biography

Sudha Bansode is an Associate Professor in Zoology at Shankarrao Mohite College, Akluj, Maharashtra State, India. Recently she was a Visiting Scholar at University of California, Riverside, USA. She is an active researcher & passionate teacher in India. Still she has been published above 20 research papers in International Journals & she is interested on Bone Research. Also she has honor of Distinguished Editorial Board Member of several International Journals. She is an own author of "Textbook Histological Techniques" & "Outlines of Physiology" and now she is working on another own reference book "Rhythms in Freshwater Crustaceans". She is a University recognized research guide for Ph.D. students in India. She was an invited Indian Speaker of "OXFORD SYMPOSIUM" on 27-29 August, 2014 at Balliol College, Oxford, United Kingdom. She was academic visitor of Bangkok- Thailand, Colombo-Sri Lanka, Daira-Dubai-UAE. Her recent intellectual interaction is with many International Professional groups.

e: drsudhabanasode@yahoo.com

 Notes: