

# CELL SIGNALING AND CANCER THERAPY & CELL METABOLISM AND CYTOPATHOLOGY

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## Cell adhesion and cell communication

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Cell division is a normal process in multi-cellular organisms. Growth and repair (replacement of dead cells) take place as a result of cell division (mitosis). Except for cells like the liver and brain cells, which rarely divide in the mature adult, most cells undergo frequent division. Sometimes, however, cell division becomes very rapid and uncontrolled, leading to cancer. It should be clearly understood that rapid growth means a high rate of cell division for a particular cell type. It is possible for perfectly normal cells, e. g. the blood-forming cells, to have a higher rate of division than some cancerous cells. Cancer is not one single disease but a complex of many diseases. About two hundred distinct types of cancer have been recognized. These can be grouped into four main types: carcinomas, sarcomas, lymphomas and leukemias.

## CHARACTERISTICS OF CANCER CELLS

Almost all types of differentiated cells can become neo-plastic or cancerous. The process of cell change in which a cell loses its ability to control its rate of division, and thus becomes a tumor cell, is called cell transformation. The cancerous cell generally retains the structural and functional characteristics of the normal cell type from which it is derived. Thus cancerous cells of the thyroid gland continue to secrete thyroxine. Neo-plastic cells, however, differ from their normal counterparts in several respects.

## Biography

Sudha Bansode is an Associate Professor in Zoology at Shankarrao Mohite College, Akulj, Maharashtra State, India. Recently she has completed her Post Doctoral Studies at University of California, Riverside, USA. She is an active researcher & passionate teacher in India. Still she has been published above 25 research papers in International Journals & she is interested in Bone Research. Also she has honor of Distinguished Editorial Board Member of several International Journals. She is an 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 & CELL SIGNALING & CANCER THERAPY – International Conference at Double Tree, Hilton Chicago on 27-28 September 2017. She was an academic visitor of Bangkok- Thailand, Colombo-Sri Lanka, Doha-Dubai-UAE. Her recent intellectual interaction is with many International Professional groups.

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