



International Conference on
"Recent Trends in Structural Bioinformatics and Computer Aided Drug Design"
[ICSBCADD'2019]
11th - 13th December, 2019



Identification of novel targets of the oncogenic signalling kinase PAK1 in hormonal cancers

Ganesh Venkatraman

Department of Human Genetics, Sri Ramachandra Institute of Higher Education & Research,
Chennai-600116, India
E-mail: ganeshv@sriramachandra.edu.in

P21 Activated Kinase 1 (Pak1) - a serine/threonine kinase that orchestrates cytoskeletal remodeling and cell motility, has been shown to function as downstream node for various oncogenic signaling pathways that promote cell proliferation, regulate apoptosis and accelerate mitotic abnormalities, resulting in tumor formation and invasiveness. Recent reports showed that Pak1 per se acts as an oncogene in breast cancer and is activated by a variety of cell surface or intracellular signals. It is well accepted that origin and progression of Breast cancer is driven by deregulated proliferation, mitotic abnormalities, and increased invasiveness, in addition to other phenotypic changes. Pak1 is one such molecule that is known to cause progression of breast cancer cells to more invasive phenotypes. In this talk, we discuss here, some of the novel targets of Pak1 in hormonal cancers.

Department of Bioinformatics, Alagappa University,
Karaikudi -630004, Tamil Nadu
E-mail: dbiicsbcadd@gmail.com
Web Address: <http://conf.bioinfoau.org/icsbcadd'2019>