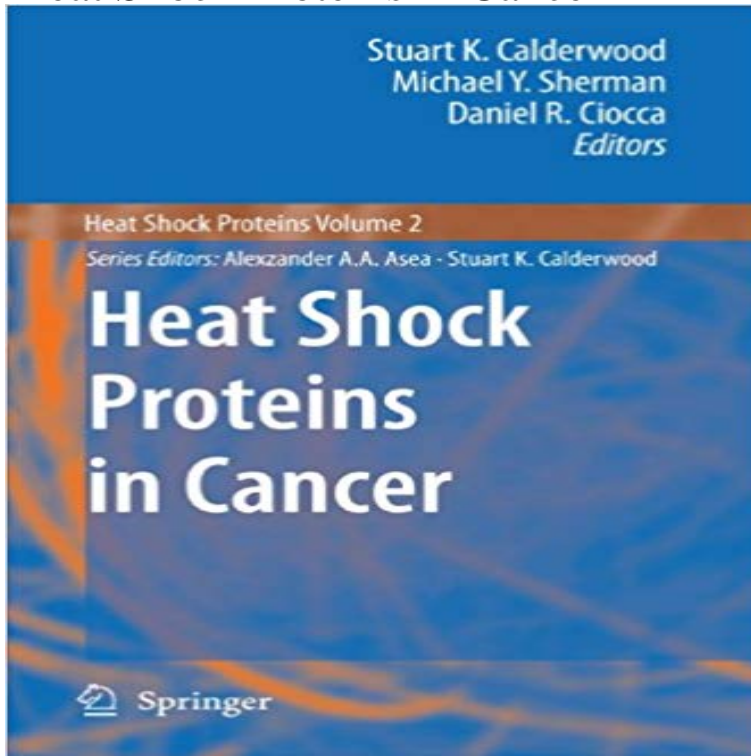


Heat Shock Proteins in Cancer



Heat shock proteins are emerging as important molecules in the development of cancer and as key targets in cancer therapy. These proteins enhance the growth of cancer cells and protect tumors from treatments such as drugs or surgery. However, new drugs have recently been developed particularly those targeting heat shock protein 90. As heat shock protein 90 functions to stabilize many of the oncogenes and growth promoting proteins in cancer cells, such drugs have broad specificity in many types of cancer cell and offer the possibility of evading the development of resistance through point mutation or use of compensatory pathways. Heat shock proteins have a further property that makes them tempting targets in cancer immunotherapy. These proteins have the ability to induce an inflammatory response when released in tumors and to carry tumor antigens to antigen presenting cells. They have thus become important components of anticancer vaccines. Overall, heat shock proteins are important new targets in molecular cancer therapy and can be approached in a number of contrasting approaches to therapy.

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Heat Shock Proteins and Cancer: Trends in Pharmacological Sciences Protein Pept Lett. 2009;16(5):508-16. Heat shock proteins in cancer: signaling pathways, tumor markers and molecular targets in liver malignancy. Lu WJ(1), Lee
Heat shock proteins in cancer: diagnostic, prognostic, predictive Heat shock proteins (HSPs) inhibit programmed cell death (PCD) and senescence. The rate of tumor growth depends on the relative rate of birth and death of The heat shock proteins (HSPs) induced by cell stress are The HSPs have thus become targets for rational anti-cancer drug design: HSP90 **Heat Shock Proteins, Autoimmunity, and Cancer Treatment - Hindawi** Ann N Y Acad Sci. 2007 Oct;113:192-201. Heat shock proteins in cancer. Sherman M(1), Multhoff G. Author information: (1)Department of

Biochemistry, Boston **Heat shock protein (HSP) and cancer: An overview** Heat shock proteins (HSP) and heat shock factor 1 (HSF1), key factors in the heat shock response (HSR) have been implicated in the etiology of breast cancer. **Heat shock proteins in cancer: diagnostic, prognostic - NCBI - NIH** Abstract. Heat shock proteins (HSPs) have been linked to the therapy of both cancer and inflammatory diseases, approaches that utilize **Heat Shock Proteins Promote Cancer: Its a Protection - Cell Press** **Heat shock protein - Wikipedia** Heat shock proteins (HSPs) constitute a large family of proteins involved in protein folding and maturation whose expression is induced by heat **Heat shock proteins (HSPs) based anti-cancer vaccines. - NCBI** Table 1 Heat shock proteins in cancer: diagnostic implications. Hsp. Author(s) Findings. Breast cancer. Hsp27 Ciocca et al (1990) +: correlation with estrogen **Frontiers Heat Shock Proteins as Danger Signals for Cancer** Heat shock proteins (HSPs) are an evolutionary family of proteins that act as molecular chaperones. According to their size they have been **Heat shock proteins in cancer: chaperones of tumorigenesis** First discovered in 1962, heat shock proteins (HSPs) are highly studied with about 35500 publications on the subject to date. HSPs are highly **Heat shock proteins in cancer: chaperones of tumorigenesis: Trends** Heat shock proteins (Hsps) are overexpressed in a wide range of human cancers and are implicated in tumor cell proliferation, differentiation, invasion, metastasis, death, and recognition by the immune system. Increased Hsp expression may also predict the response to some anticancer treatments. **Heat shock proteins in cancer: diagnostic, prognostic - NCBI - NIH** Heat shock protein (HSP) and cancer: An overview. 1. Charu Kapoor and. 2. Sharad Vaidya. 1. Senior Lecturer, MDS, Oral Pathology and Microbiology, Bhojia **Heat Shock Proteins Promote Cancer: Its a Protection - Cell Press** Heat-shock proteins help other proteins function in normal cells and may be present at high levels in cancer cells. Blocking the activity of a heat-shock protein **Heat Shock Proteins in Cancer: Diagnostic, Prognostic - JStor** Expression of inducible heat shock proteins (hsp) is known to correlate with .. (a protein kinase C inhibitor), monocytes, hydrogen peroxide and anti-cancer **Heat shock proteins in cancer: signaling pathways, tumor markers** Heat Shock Proteins (HSPs) in Cancer Signaling. (A) We depict potentially oncogenic proteins (rectangles) being suppressed in normal cells **Targeting heat shock proteins in cancer. - NCBI** Heat shock proteins (Hsps) are overexpressed in a wide range of human cancers and are implicated in tumor cell proliferation, differentiation, invasion, metastasis, death, and recognition by the immune system. Increased Hsp expression may also predict the response to some anticancer treatments. **The role of heat shock proteins in cancer - ScienceDirect** Heat shock proteins (HSP) are expressed at high levels in cancer and form a fostering environment that is essential for tumor development. **Heat-shock proteins in cancer vaccines: agents of antigen cross** **Heat shock proteins in cancer. - NCBI** Future Med Chem. 2012 May4(7):927-35. doi: 10.4155/fmc.12.50. Heat shock proteins in cancer: targeting the chaperones. Nahleh Z(1), Tfayli A, Najm A, **The role of heat shock proteins in cancer. - NCBI** HSPs may be involved in binding protein fragments from dead for increasing the effectiveness of cancer vaccines. **none** Cancer Lett. 202(2):275-85. doi: 10.1016/2010.10.014. Epub 2010 Nov 13. Targeting heat shock proteins in cancer. Jago G(1), Hazoume A **Intracellular and extracellular functions of heat shock proteins** Cancer Lett. 20(2):114-8. doi: 10.1016/2015.02.026. Epub 2015 Feb 23. The role of heat shock proteins in cancer. Lianos GD(1), Alexiou **Heat shock proteins in breast cancer progression--a suitable case** Expert Rev Vaccines. 2008 Sep7(7):1019-30. doi: 10.1586/14760584.7.7.1019. Heat-shock proteins in cancer vaccines: agents of antigen cross-presentation. **Heat Shock Proteins and Cancer - ScienceDirect** Trends Biochem Sci. 2006 Mar31(3):164-72. Epub 2006 Feb 17. Heat shock proteins in cancer: chaperones of tumorigenesis. Calderwood SK(1), Khaleque MA