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Induction of sterile inflammation

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Higher temperature ranges have been found to be associated with the death of cells and the increase of intracellular HSP 72 in jurkat cells. HSP 72 relates with membrane lipids and are released from cells when heat shocked. Depending on the localization of HSPs on the cell surface, either membrane bound or embedded, HSPs will possibly induce apoptotic cell death or protect cells from dying and other damages related to cellular stress. They may bring out the physiological response of the innate immunity such as the secretion of cytokine and cell activation, thereby promoting roles in stimulating cell protection, death and immune activation under normal physiological conditions and on exposure to stress stimuli. HSP72 is a significant marker for various environmental stresses and diseases, therefore this research seeks to describe the intracellular expression of endogenous HSP 72 by flow cytometry, under control conditions and in response to stress using various heat treatment with the control temperature set at 37°C.

Biography

Ampadu, Yaw Andrew has completed his master's education in biomedical science in the University of Chester, UK. He has also participated in different scientific academies such as, one organized by the Hannover Medical School in Hannover, Germany. Currently he is working as a lab manager in 37 military hospital.

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