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Tinospora cordifolia extracts induce G1-phase cell cycle arrest in normal and malignant K B cells

Parveen Bansal

Baba Farid University of Health Sciences, India

Tinospora cordifolia commonly known as *Guduchi* is supposed to be *Amrita* (which means that rejuvenates the dead cells). The term *Amrita* refers to heavenly elixir, which was reputed to protect the celestial people from senescence and keep them eternally young. It has been used for centuries in Ayurvedic system of medicine for treating various ailments including cancer. Here, we report that the *Tinospora cordifolia* extracts (TCE) induced inhibition of proliferation of KB cells was associated with G0/G1-phase arrest. The effectiveness of TCE in checking the growth of KB cells without altering the growth of normal PBMC indicates that *Tinospora cordifolia* has differential effect on normal and malignant cells hence; it may have therapeutic potential in cancer.

Biography

Parveen Bansal, PhD (Biochemistry), FRSM, FICA (USA) Joint Director, at Baba Farid University of Health Sciences has a work experience of 18 years at various positions including Assistant Director in CCRAS. He is Founder Head of National Institute of Ayurvedic Pharmaceutical Research, Department of AYUSH, Ministry of Health & Family Welfare and Faculty at PGIMER, Chandigarh etc. He represented India as Member 23rd Indian Scientific Expedition to Antarctica. He has published 134 research papers, 10 books, 31 chapters in books and 10 popular scientific articles. He has three young scientist awards, life time education achievement award, Gold medal by Gujrat Ayurveda University, Honorary Fellowship of International Council of Ayurveda (USA), WHO in-country fellowship by World Health Organization, Al-Ameen College of Pharmacy Award for year 2012, Rai Bahadur Rama Krishana Gold medal Award 2014 and International Travel Support Scheme by Department of Science and Technology, Govt. of India in 11th IDDST at Haikou, China and 4th ICMPPH at John Hopkins, USA.

bansal66@yahoo.com