

Name: Binod kumar
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Attached CV: Resume-binodPost DOC.doc (45 KB) -- Checked By McAfee
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Covering Letter:

Dear Sir/Madam,

I am Binod Kumar working at the Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India in collaboration with Bhabha Atomic Research Center, Mumbai, India. My PhD work is entitled ?Molecular mechanism of apoptosis in tumor cells induced by Diospyrin (D1), a natural plant derived compound and its derivative (D7) in combination with radiation? which highlights the use of natural compounds to prevent the proliferation of tumor cells, by inducing signal transduction pathways leading to apoptosis. I have done extensive tissue culture work involving MCF-7, A431 and HT1080 cell lines as well as tumor bearing animal models (Swsis mice with Ehrlich Ascites Carcinoma, Fibrosarcoma). Combining this particular drug with radiation resulted in radio-sensitization both in vitro and in vivo. This work was credited with several poster presentation awards and publications [Enhancement of the tumour inhibitory activity, in vivo, of diospyrin, a plant-derived quinonoid, through liposomal encapsulation, Toxicology letters, 157, 109-117(2005)].

During the course of my Doctoral program, I have extensively worked on various cancer lines determining the IC50 values for various diospyrin derivatives, and finding the relevant signaling mechanisms responsible for their apoptotic effects with specific focus on reactive oxygen species, calcium signaling (involving calcineurin and calpain) and mitochondrial pathways. In addition, I have propagated EAC and fibrosarcomas in Swiss mice and determined the effect of diospyrin derivatives in these animal models. Of the many techniques used, I have acquired experience in the following:

- ? Cell culture techniques
- ? Animal experimentation
- ? Fluorescence microscopy and spectroscopy
- ? FACS analysis
- ? EMSA
- ? RT-PCR
- ? Western blotting
- ? Enzymatic assays along with other techniques (please refer to my CV for details)

I have gone through your lab's publications and the various projects as given on the website. With the experience that I have acquired and the advanced techniques that I would get an opportunity to learn in your lab, I am sure that I will be able to contribute fruitfully to the ongoing projects in your lab.

I shall be very happy to hear from you.

Yours sincerely

Binod Kumar

Work Eligibility: No, I am not currently in possession of a US work permit.