

Dear Prof. Bogdan Dragnea ,

I would like to apply for the postdoc position in your laboratory. I am enclosing my CV along with details of my research experience and publications list for your kind consideration. Looking forward to hearing from you.

Thanking you,
With Best Regards,
Neetu Dahiya

Statement of research interest:

My Ph.D. work has given me expertise in the field of Microbiology and Molecular biology. I have worked on production, purification and characterization of chitinase and its cloning. Now a days I am working on an immunogenic protein (SPAG9) which is a testis-specific but found to be expressed in various cancers. We have cloned the gene encoding SPAG9 and constructed deleted mutants to study its role in signal transduction pathway and found it as JIP3 protein. We are studying expression of SPAG9 in various cancer patients and cancer tissue samples using western blotting and immunohistochemistry. We are doing transfection studies in mamallian cell lines for expression of SPAG9 in normal and cancerous cell lines. We are using RT PCR determining of expression of SPAG9 in cancer tissue samples. I am interested in working in the field of molecular biology, biochemistry and biotechnology. We are using siRNA approach for analysing the functional importance of this protein in transfected cancer cell lines.

For carrying out the above work we are using various molecular biology and biochemistry techniques like cloning of DNA, expression in E. coli as well as mammalian cell lines, protein purification, RT-PCR, mRNA isolation from tissues and cancer cell lines, Immuno-fluorescence, immunoblotting Immunohistochemistry studies etc. My long term goal is to be a part of recognized reseach group working in the field of cancer, diabetes or related applied field using advance molecular and biotechnological techniques.