

From the last Four years I am working in the area of Lectinology for my PhD Degree and will submit the PhD thesis very soon (Currently writing dissertation). I have published three pioneering papers in the field of lectin research and one paper in the field of microbiology on Aspergillus species. I have handled various cancer cell lines to study the effect of lectins on these cell lines and cultures human lymphocytes. I have experience in in-vivo anticancer study on animal models. I have expert hand in carrying immunoassays.

During Masters in Molecular Biology and Biochemistry, I have been exposed to various techniques class practical and advanced practical. Advanced practical includes mainly lectin purification and characterization from Glycine max, DNA isolation from blood, Plasmid isolation from bacteria, restriction digestion and PCR analysis of amplifies region of DNA. I have worked in one-year project in Dept of Microbiology of same university where I worked on thermophilic fungus Aspergillus fumigatus to optimise the culture for the production of pectinases.

From the last four years I have been working for my Doctoral Degree and at present I am writing my thesis (dissertation). During my PhD degree, I have been able to design experiments to purify and characterize four new lectins from plant sources. Further, I used nine lectins to explore various biological properties, which could be exploited for the benefit of the mankind. I have worked on DU145 (Prostate), PC-3 (Prostate) A549 (Lungs), HCT15 (Colon), 502713 (Colon), KB (Oral), IMR32 (Neuroblastoma) HT-29 (Colon), SiHa (Cervix), OVCAR-5 (Ovary), SNB-78 (CNS) to know the effect of all nine plant lectins on these cancer cell lines. One of my lectin is specific for human IgG and I have used that lectin to successfully purify IgG from human whole serum. I have found new lectins with lectin with very high mitogenic index against human lymphocytes and murine splenocytes. Two of my lectins gave very good antifungal effect against plant pathogenic fungi. Preliminary results of these investigations are published in Journal of Biochemistry and Molecular Biology. Some more papers are in preparation.

Regarding interpersonal skills, I have good team spirit and have ability to work with others on common projects, Before starting my own professional research career, I am willing to do some challenging work in area of biochemical research. I hope to submit thesis within three months and will be available to join you in Aug, 2006. I am very serious about lab and work place safety and also have strong academic record (See attached CV). I shall be highly thankful for kind consideration of my application for the post of postdoctoral fellow in your group. If required, I can ask my referees for the reference letters.

With kind regards

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