

900 Downtowner Blvd #19
Mobile, AL 36609

April 18, 2006

Prof. Bogdan Dragnea
Indiana University
Bloomington, IN

Dear Dragnea:

I am writing to apply for the Postdoctoral Research position, as advertised on the Webpage of *ScienceJobs*. I completed my Ph.D. in Biochemistry in October 2003 and I have been a postdoctoral research fellow at Cancer Research Institute of the University of South Alabama since January 2004. I am particularly interested in the project described for the position because I have been working in the field of protein purification, analysis, posttranslational modification, biomarkers identification, antibody arrays and gene microarrays for about 4 years.

My doctoral dissertation was focused essentially on the differential expression of proteins using 2D gel electrophoresis and MALDI-TOF/MS, and differential expression of genes using DNA-microarray. In the course of my Ph.D. work, I gained a great experience in protein sample preparation, purification, fractionation and analysis. In addition, an extensive experience was acquired in the field of molecular biology where I successfully purified bacterial mRNA from the total RNA, labeled with Cy3 and Cy5 and hybridized on a laboratory-made oligonucleotide micro-array. My work at Cancer Research Institute, USA, was mainly focused on the study of different aspects of proteins such as differential expression, modification, and biomarkers identification related to cancer angiogenesis and metastasis, using Liquid Chromatography-Mass Spectrometry. The LC-MS/MS data were subsequently validated by western-blotting. The first results of this work were published in the *Journal of Proteome Research* 5(4) April 7, 2006. A second publication is under preparation and will be submitted shortly. During my graduate training, I also served as a teaching assistant and occasionally instructed for intermediate level courses in different environments and languages. Consequently, a great experience in the art of project conception and adjustment was acquired.

Please find enclosed my Curriculum Vitae including names, E-mail addresses and telephone numbers of three references. If you require any additional materials or information, I would be happy to supply them. Thank you very much for your consideration.

Sincerely,

Flaubert Mbeunkui