

From: Yi Wang [<mailto:wangyi4@msu.edu>]
Sent: Sunday, April 02, 2006 5:20 PM
To: Biocomplexity Institute
Cc: Dragnea, Bogdan G
Subject: apply for postdoctoral position

Dear Dragnea,

I am interested in the postdoctoral position in Experimental Molecular Biochemistry, Immunobiology, Bioanalytical Chemistry and Biochemical Surface Treatment regarding to the poster.

The research I have done in Professor Honggao Yan's lab is the Structure and Function Relationship study of the Dihydroneopterin Aldolase from Staphylococcus aureus and E. coli in the folate biosynthesis pathway. I utilize the combination of biochemical and biophysical methods to study the binding affinities of protein-ligand and catalytic activities of the wild type and mutant enzymes. The substrates and products of Gram-positive and Gram-negative DHNAs have quite different binding affinities. And also I collaborate with Professor Gavin Reid specialized in Mass Spectrometry to investigate the potential intermediate product for one of the mutants.

Generally, I have a valid background of protein biochemistry and analytical chemistry. I start from site-directed mutagenesis, then overexpress proteins in E. coli, purify proteins by Ni-NTA, DEAE, and gel-filtration columns,

measure the binding affinity using fluorometry, stopped-flow and enzymatic activities using quench-flow, HPLC and NMR. The techniques and research training experience that I learn from my PhD project will benefit my future work in your lab if you could consider my application.

I am planning to get my PhD in May 2006. My current visa is F1 student visa.

If you have any postdoctoral position available, please let me know. My Resume is included as an attachment. Thank you for considering my application. I am looking forward to hearing from you in the near future.

Sincerely yours,

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