

THE WORLD MOLECULAR ENGINEERING NETWORK

***** EXAMPLE FOR POST-DOC/GRAD STUDENT *****

LIU

Name: Lu Liu

Supervisor: Daniel V. Santi

Dept./Institution: Department of Biochemistry and Biophysics, UCSF

Topic: Mutations of Thymidylate Synthase at Asparagine 229

Mailing Address: UCSF, Box 0448, San Francisco, CA 94143

Email Address: liu@cgl.ucsf.edu

Phone: (415) 476-8794 **FAX:** (415) 476-0473

Summary of Research: My research focuses on the understanding of the relationship between the properties and structure of TS using site-directed mutagenesis. After mutation of Asn229 to Asp229, the enzyme is converted to a dCMP methylase. The kinetic properties of dCMP methylation by TS Asp229 were analogous to that of dUMP methylation by wild type TS. We propose a mechanism for dCMP methylation, in which the enzyme Asp 229 serves to protonate the heterocycle.

Impressions of the Meeting: This meeting was superb! I am very pleased to have had the opportunity to listen to and talk with many outstanding scientists. The PI's presentations were informative and inspirational. I was impressed by the sponsor's presentations. I would recommend no changes in the meeting.