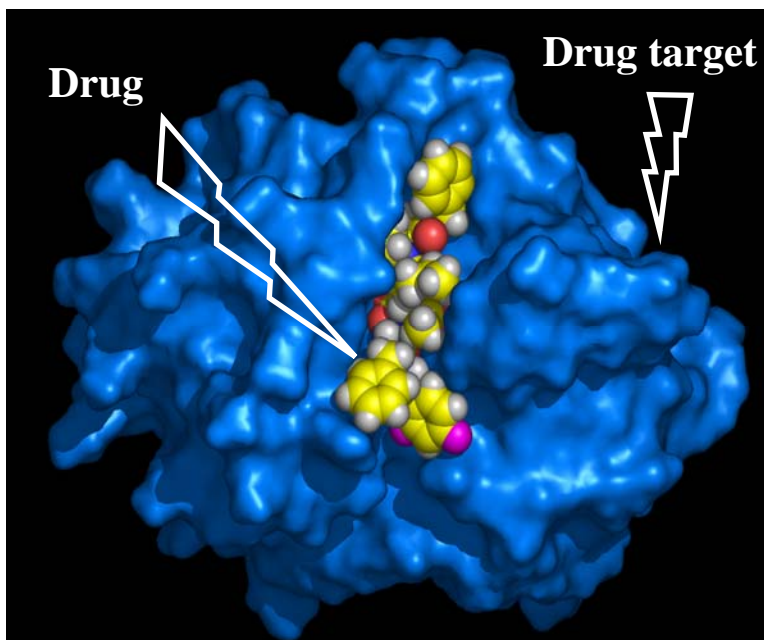


Opening for Undergraduate Research in the Meroueh Laboratory

Research in my laboratory is focused on the lead discovery aspect of drug design. Drugs are small molecules that bind to a target protein that is usually implicated with a disease, such as cancer. In the pharmaceutical industry, drug leads are discovered through a process known as high-throughput screening. In my lab, we are using a large number of computers to screen databases containing millions of compounds for potential drug leads. We use the computed free energy of binding to prioritize these millions of compounds so only a



few are selected and tested in the laboratory. A significant portion of the research in will be devoted towards devising an effective protocol for computing the free energy of binding so as to increase the likelihood that drug leads will be systematically discovered.

If you are interested in learning more about the various aspects of the drug lead discovery process, do not hesitate to contact me at smeroueh@iupui.edu. Feel free to also give me a phone call at (317) 274-8315.