Summer Intern Synthetic Medicinal Chemistry Opportunity

This internship will provide hands-on experience in the early stages of the small molecule drug discovery process—from how chemists identify promising hits from biological screens through optimization of chemical matter for more desirable properties. The intern will have the opportunity to work on one of the early stage drug discovery projects in our portfolio. This may include a combination of synthetic organic chemistry in the laboratory, including exposure to the West Campus Analytical Core (NMR and LCMS), as well as opportunities outside of the lab including literature research, computational chemistry, and data manipulation. The successful candidate for this internship will have completed, at minimum, sophomore Organic Chemistry with lab, including understanding of all relevant safety protocols. Previous laboratory experience preferred such as a demonstrated performance in synthetic organic chemistry experimentation, a working knowledge of synthetic organic chemistry principles, excellent oral and written communication skills, and familiarization with modern analytical tools and techniques, as well as data interpretation.

The intern will work closely with a supervisor, and potentially other laboratory personnel, to develop fundamental laboratory skills, perform computer-based literature searches, and maintain accurate electronic collection and recording of experimental results. The intern will be provided scientific support for a specific research proposal submitted by their supervisor. Opportunities may include but are not limited to: compound management, small molecule structural analysis, drug formulation development and analysis, and organic synthesis.

While this offering is for the Chemistry internship, interns will be a part of the dynamic team and will have an opportunity to work and interact with scientists from very diverse backgrounds (academia and industry, molecular biology, biochemistry, medicinal and synthetic chemistry). They will attend weekly group meetings and if interested, will have an opportunity to attend research talks and scientific events at Yale. At the completion of the program, the interns will present their work to other Biology and Chemistry interns and all YCMD members.