

Job Description

Research Scientist, Medicinal/Organic Chemistry

Position Summary

Reporting to a senior research staff member, will have responsibility for the design and execution of synthetic medicinal chemistry efforts within the company's internal and collaborative drug discovery efforts. Assume additional responsibilities related to R & D activities as may be assigned by their supervisor and senior management.

Responsibilities

- Design and execute synthesis and characterization of small molecules to support internal and collaborative drug discovery and development efforts
- Assist in the design of molecules and conduct appropriate synthetic follow-up studies to optimize bioactivity obtained in support of internal and collaborative programs
- Design and construction of focused and targeted chemical libraries for screening in selected biological target systems utilizing parallel synthesis techniques
- Multi-step synthesis (7-12 steps) of new molecules and analogues of lead candidates (milligram to gram scale) individually or in a library format
- Design, synthesis and evaluation of new building block components for macrocyclic molecules and assessment of their suitability for use in library construction as required
- Design and execution of synthesis of new molecules and analogues of lead candidates individually or in a library format
- Purification (flash chromatography, HPLC, crystallization, distillation) and analytical characterization (NMR, IR, LC-MS) of aforementioned molecules and fragments
- Design and evaluation of alternative synthetic routes for construction of target molecules
- Design and evaluation of new processes and improvement of existing procedures for synthesis scale-up of new chemical entities and R & D intermediates to support compound advancement in development
- Critically evaluate and propose concepts and synthetic strategies for new discovery projects
- Acting as a technical resource for other scientific staff members
- Synthetic procedure preparation and presentation of results internally and externally, including at major scientific conferences
- Supervision of junior scientific staff members and ensuring that they perform to an expected level
- Planning work for self and direct reports and completion of tasks on schedule
- Maintain up-to-date records for all work performed and ensure a safe workplace
- Comply with all applicable laboratory safety and operational regulations and procedures

Qualifications

- Ph.D. in Organic or Medicinal Chemistry with a concentration in organic synthesis, including experience with multi-step organic synthesis, with postdoctoral experience is preferred, or M.Sc. in Chemistry with ten or more years relevant experience
- In-depth knowledge of modern organic chemistry, purification methods and analytical techniques
- Experience in combinatorial chemistry, parallel synthesis and/or solid phase chemistry are considered a plus
- Strong analytical mindset, excellent technical skills, goal-oriented
- Ability to work successfully in a fast-paced, multidisciplinary, dynamic environment and maintain timelines
- Proven track record of scientific achievement, as demonstrated by successful R & D accomplishments and peer-reviewed publications
- Good interpersonal skills, dedication, attention to detail, ability to work in an interdependent team
- Excellent oral and written communication and presentation skills
- Very good computer proficiency including standard office programs, use of chemical structure drawing programs, presentation preparation, online research tools and database searching