Cyclenium
A SpiroChem Company

Job Description
Sr. Research Scientist, Organic/Medicinal Chemistry

Position Summary

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

Responsibilities

- Design and execute the synthesis and characterization of small molecules to support internal and collaborative drug discovery and development efforts
- Perform 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
- Interface, as required, with external biology, biochemistry, pharmacology, toxicology and DMPK experts, including collaborators and contractors, regarding analysis of biological data as the basis for the design of structural improvements of lead molecules to achieve targeted development candidate profiles
- 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
- Purification (flash chromatography, HPLC, crystallization, distillation) and analytical characterization (NMR, IR, LC-MS) of aforementioned molecules and fragments
- Optimization 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 library projects, including expansion of the company's screening library
- Serve as a technical resource and mentor for other scientific staff members
- Synthetic procedure preparation and presentation of results internally and externally, including at major scientific conferences
- Supervision of multiple junior scientific staff members and ensuring that they perform to an expected level

- Establishing objectives and planning work for self and direct reports; completion of tasks on schedule and respecting the priorities established
- 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 preferred
- Minimum of 5 years relevant experience in pharmaceutical or biotech industry required, including management of other R & D personnel
- Proven proficiency in multi-step synthesis with in-depth knowledge of modern organic chemistry, purification methods, and analytical techniques
- Parallel synthesis, combinatorial chemistry, and/or solid phase chemistry experience 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
- High degree of flexibility and ability to adapt quickly to changing priorities.
- Proven track record of scientific achievement, as demonstrated by successful R & D accomplishments and peer-reviewed publications
- Demonstrated project management and leadership skills
- Very good interpersonal skills, dedication, attention to detail, ability to work in an interdependent team
- Maintain a high level of responsibility and reliability with a exceptional sense of organization and time management
- Excellent oral and written communication skills, including presentations to technical and general audiences
- Very good computer proficiency including standard office programs, use of chemical structure drawing programs, presentation preparation, online research tools and database searching