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发布日期: 2011-07-05

浏览次数:

字号: [大 中 小]



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多年来一直从事有机化学、药物化学、化学生物学的科研与教学工作。主要研究方向为基于作用机制的杂环类化合物的设计、合成、合成方法及生物活性研究。已主持完成国家自然科学基金2项, 作为主要参加者完成国家自然科学基金3项以及“973”子课题等。目前主持或承担国家“十一五”“北京大学综合性创新药物研究开发技术大平台”的候选药物研究品种及新药临床前研究课题。在国内外学术刊物上发表论文40余篇, 申请专利6项。

主要研究领域:

1. 基于作用机制的杂环类化合物的设计、合成、合成方法及生物活性研究
2. 氨基二硫代甲酸酯类化合物的设计、合成及抗肿瘤活性研究
3. 新型酪氨酸激酶抑制剂的设计、合成及活性研究
4. 硫醇替代试剂的应用扩展与研究

代表性论文

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