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Structure-guided and natural product-derived small molecules as antibiotic and anticancer agents

Natural products, their derivatives, metabolites, and mimics account for approximately half of the New Chemical Entities for drug discovery. To date, natural products have provided the largest supply of successful drug leads. Natural products have contributed too many drugs or cosmeceuticals that were approved by the US Food and Drug Administration and European Medicines Agency. Fragment-based and structure-guided drug design and discovery are powerful tools. Coupling these tools with natural product-derived fragments and scaffolds will expedite successful outcomes in drug discovery and development. This oral presentation will discuss the design, synthesis, and Structure-Activity-Relationships of natural product fragments and their derivatives from our laboratory for their development as potential antibiotic and anti-cancer agents.

Biography

Rongshi Li is the Professor of Chemistry and Medicinal Chemistry, Center for Drug Discovery, Department of Pharmaceutical Sciences, Buffett Cancer Center, and Center for Staphylococcal Research, University of Nebraska Medical Center. After spending 14 years in industry advancing from Scientist to Senior Vice President, Dr. Li moved to academia in 2008. Dr. Li received the Distinguished Scientist Award. Dr. Li has over 200 scientific contributions and has delivered over 100 lectures as a keynote or invited speaker at numerous universities and research institutions, and in national and international symposia. Dr. Li has been a Guest Editor for Medicinal Research Reviews.

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