
Diversity Oriented Synthesis Basics And Applications In Organic Synthesis Drug Discovery And Chemical Biology

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 Summary
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 Diversity Oriented Synthesis (DOS) of small organic molecules has emerged as a powerful tool to explore the interface between chemistry and biology. Diversity oriented methodologies aim to generate molecular complexity, providing new molecular entities inspired by natural products that may or may not contain their original scaffolds.
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 This book reviews diversity-oriented synthesis (DOS), a leading and dynamic area in organic chemistry and drug discovery. It first covers key chemical methods for the generation of small molecules according to DOS principles as well as important classes of molecules generated through DOS approaches.
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 Diversity-oriented synthesis and small-molecule microarrays enabled the discovery of robotnikinin, a small molecule that binds the extracellular Sonic hedgehog (Shh) protein and blocks Shh...
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 Azapeptides with basic amino acid residues (lysine, ornithine, arginine) and derivatives were synthesized by an effective approach featuring alkylation of a hydrazone-protected azaglycine residue with α -

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was accelerated by a diversity-oriented synthesis (DOS) pathway, and in vivo studies of our previously reported macrocyclic antimalarial agent that derived from the synthetic pathway. Structure-activity relationships that focused on both appendage and skeletal features yielded a nanomolar inhibitor of *P. falciparum* asexual blood-stage growth with ... ition will be adopted. "Diversity-oriented synthesis involves the deliberate, simultaneous and efficient synthesis of more than one target compound in a diversity-driven approach to answer a complex problem." Complex problems in this context include binding, catalysis, phenotypic effects, etc. Most organic *Diversity-Oriented Synthesis: Basics and Applications in ...* Diversity-Oriented Synthesis (DOS) consists of generating structurally diverse compounds from a complexity-generating reaction followed by cyclization steps and appendage diversity. Diversity-Oriented Synthesis: Basics and Applications in ... This book reviews diversity-oriented synthesis (DOS), a leading

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