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Diversity-Oriented Decoration of Pyrrolo[1,2-*a*]pyrazines

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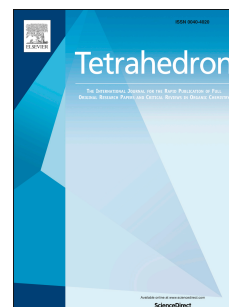
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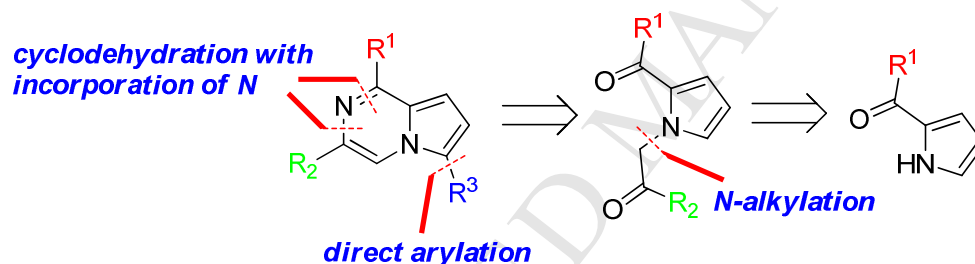
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Graphical Abstract



Abstract: Diversity-oriented synthesis of a chemical library based on a pyrrolo[1,2-*a*]pyrazine core is described by using palladium-catalyzed direct C6 arylation of pyrrolo[1,2-*a*]pyrazines with various aryl bromides. The starting materials, pyrrolo[1,2-*a*]pyrazines, were easily synthesized by the base-mediated *N*-alkylation of pyrrole-2-carboxaldehyde with several 2-bromoacetophenones followed by dehydrative cyclization with incorporation of nitrogen by the action of ammonium acetate. Introduction of other functional groups on this chemical scaffold is also discussed herein.

Keywords: Diversity-oriented synthesis; Pyrrolo[1,2-*a*]pyrazines; Cyclodehydration; Direct

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