



II. International Symposium on Multidisciplinary Studies (ISMS)

18-21 May 2017, Rome/Italy

(Abstract Book)

II. Uluslararası Multidisipliner Çalışmaları Sempozyumu (ISMS)

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(Özet Kitabı)

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Title	New route to <i>trans</i>-fused bicycloprolines and bicyclopecolic acids precursors
Abstract	
<p>Conformationally restricted bicyclic unnatural amino acids are compounds with broad spectrum of application. Due to extensive usage in medicinal chemistry (especially chemistry of peptidomimetics) as well as organocatalysis new synthetic strategies for their preparation are strongly desired. Herein, we report new strategy for the preparation of <i>trans</i>-fused bicycloprolines and bicyclopecolic acids precursors from commercially available β-ketoesters. Desired <i>trans</i>-stereochemistry was set up in the second step by Strecker reaction of readily 2-allylcycloalkanones producing corresponding α-aminonitriles which, after tosylation, undergo $\text{PhI}(\text{OAc})_2$ promoted electrophilic cyclization. Cyclization step can be carried out in 5-<i>exo</i> or 6-<i>endo</i> mode, depending on reaction conditions, yielding bicycloprolines or bicyclopecolic acid precursors, respectively.</p> <p>Key words: Strecker reaction, electrophilic cyclization, unnatural amino acids, hypervalent iodine reagent</p>	