



広島大学薬学部国際セミナー International Seminar of Pharmaceutical Sciences, Hiroshima University

《演題》

Synthetic explorations of cycloaddition reagents with guanidine functionality

《講師》

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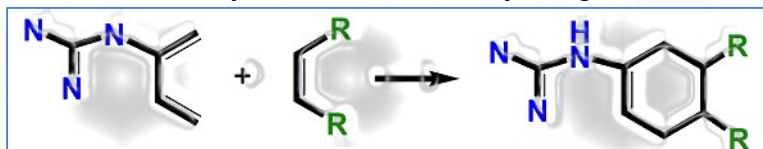
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日時： 2023年9月13日(水) 15:00 ~ 16:15

会場： 広島大学 広仁会館 1階 中会議室

Guanidines are an important class of nitrogen-containing molecules with interesting physico-chemical properties, in particular their high basicity. Their introduction into molecules is usually carried out at the final stages of synthesis and various guanidinylation reagents are employed. Here, a novel synthetic approach will be described, based on the cycloaddition reactions. Selected [4+2] Diels-Alder and 1,3-dipolar cycloadditions were explored in the development of organic reagents for the functionalization of molecules with guanidine functional group employing cycloaddition reactions, i.e. cycloaddition delivery reagents. The influence of the guanidine substitution in dienes on the reactivity in cycloaddition reactions is explored both experimentally and computationally.



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