SYNTHETIC STUDIES OF THE LYTHRACEAE ALKALOIDS VIA [3 + 2]CYCLOADDITION REACTION

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The Lythraceae alkaloids, two isomeric arylquinolizidinols (1,2), abresoline (3) and two lactonic biphenyl ether alkaloids, decaline (4) and vertaline (5) were synthesized efficiently via regio- and stereoselective [3 + 2]cycloaddiiton reaction as shown in the Scheme.