## Abstract

An entry into synthesis of  $\beta$ -nitrile equipped unnatural amino acid derivatives via nucleophilic addition of bromoacetonitrile or 2-bromopropanenitrile to  $\alpha$ -imino esters or diimino esters is reported. The synthesis of nitrile containing  $\beta$ -amino alcohol, aspartic acid, and  $\beta$ -nitrile equipped N-arylated amino acids was achieved from nitrile containing  $\alpha$ -amino esters obtained from this work. Dipeptide composed of nitrile attached unnatural  $\alpha$ -amino acid and (R)-phenylalanine was also synthesized.