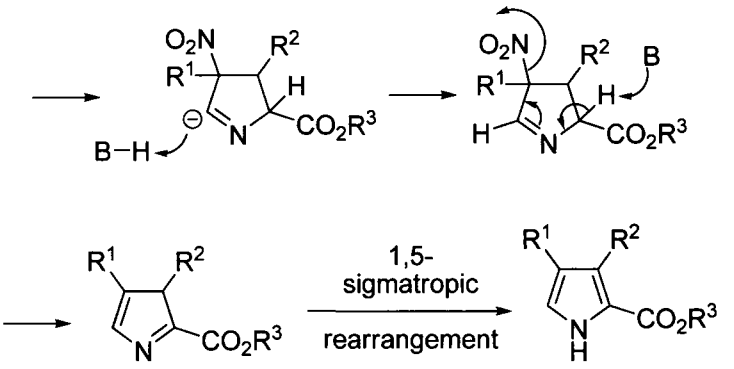
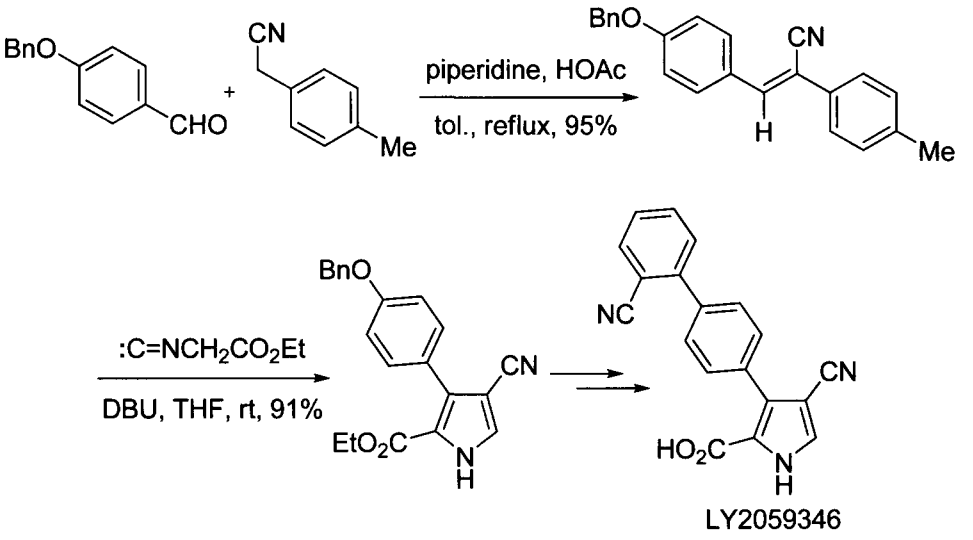


The Barton–Zard reaction found its application in the synthesis of LY2059346, a positive allosteric modulator of the α-amino-3-hydroxyl-L-aspartate (AMPA) receptor as a potential treatment of neurological and psychiatric disorders.[36]



2.4 Palladium Chemistry of Pyrroles

A series of novel 2,5-bis(guanidino-aryl)-1-methyl-1*H*-pyrroles was synthesized starting from 1-methyl-1*H*-pyrrole employing the Stille coupling as the key operation.[37] The bis-stannylpyrrole was obtained from 1-methylpyrrole via 2,5-dilithiation. Subsequent Stille coupling afforded di(nitrophenyl)-pyrrole, which was used to craft novel diguanidine anti-fungal agents. The derivative shown below was found to be equipotent or more potent than fluconazole against most of the tested fungus strains.