

تم تحضير العديد من مركبات البيرلوايزوكسازول و البيرولوتراياول باستخدام مركبات ٤-سيانو-٣-بيروليدنون.

New pyrrolo[3,4-c]isoxazoles were synthesized from 4-cyanopyrrolidin-3-ones as key intermediates in two steps. Pyrrolo[2,3-d][1,2,3]triazoles and triazolo[4,5-c]pyridazine were obtained from 2-arylhydrazono-4-cyano-1-(4-methoxyphenyl)-3-oxopyrrolidines by refluxing with PhN₂H₃ in either EtOH or glacial AcOH. Aldol self-condensation of 1-aryl-4-cyanopyrrolidin-3-ones afforded dipyrrolo[3,2-b:3',4'-d]pyrans.