Abstract

The research work carried out in this thesis is mainly focused on the 1,6-conjugate addition of carbon, nitrogen and sulphur nucleophiles to the methides under conventional batch p-quinone (p-QMs) processes and also under continuous-flow conditions. Under conventional conditions, p-quinone structurally complex as methides have been utilized synthons to access and therapeutically active 1,2,3-triazole-fused isoindolines. substituted cyclohepta[*b*]indoles highly indene derivatives. In fact. and of the synthesis one protocols has been elaborated to the total of а resveratrol based natural product called (±)-isopaucifloral F. In addition, the 1,6-conjugate addition reactions p-QMs with zinc of alkyls explored and thiols have been under continuous-flow conditions using microreaction technology to access unsymmetrical diaryl methane derivatives. The results will be discussed in the talk.