



## Synthesis, Bioassay and Molecular Modelling Studies of Antioxidants in Ischemic Diseases

Lankella Sasikala<sup>1\*</sup>, Vandavasi KoteswaraRao<sup>2</sup> and Viplov Duth Shukla<sup>3</sup>

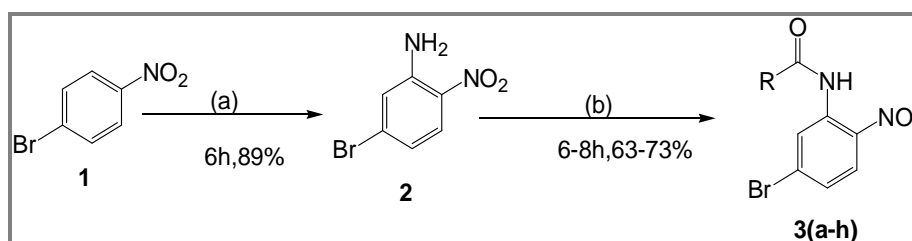
1. Department of Chemistry, Govt. City College, Hyderabad, **INDIA**
  2. Department of chemistry, GITAM Deemed to be University, Rudraram, Telangana, **INDIA**
  3. Department of chemistry, Govt. City College, Hyderabad, **INDIA**
- Email: [sasi19.city1@gmail.com](mailto:sasi19.city1@gmail.com)

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### ABSTRACT

Ischemia disease is a restriction in blood supply to tissues, causing a shortage of oxygen and glucose needed for cellular metabolism. The synthesis and bioassay of “N, N’-substituted urea derivatives” by incorporating appropriate pharmacophore into the molecular framework by suitable chemical manipulations and subsequently to study their biological activity. Here I choose N- substituted urea derivatives as antioxidants.

### Graphical Abstract:



(a) NH<sub>2</sub>OMe.HCl, t-BuOK, CuCl, DMF,DME. b) 3(a-h)=Different Amines, Triphosgene, TEA,DCM.

Synthesis of different N-substituted urea derivatives.

**Keywords:** Synthesis, Bioassay and Molecular Modelling Studies of Antioxidants, Ischemic Diseases.