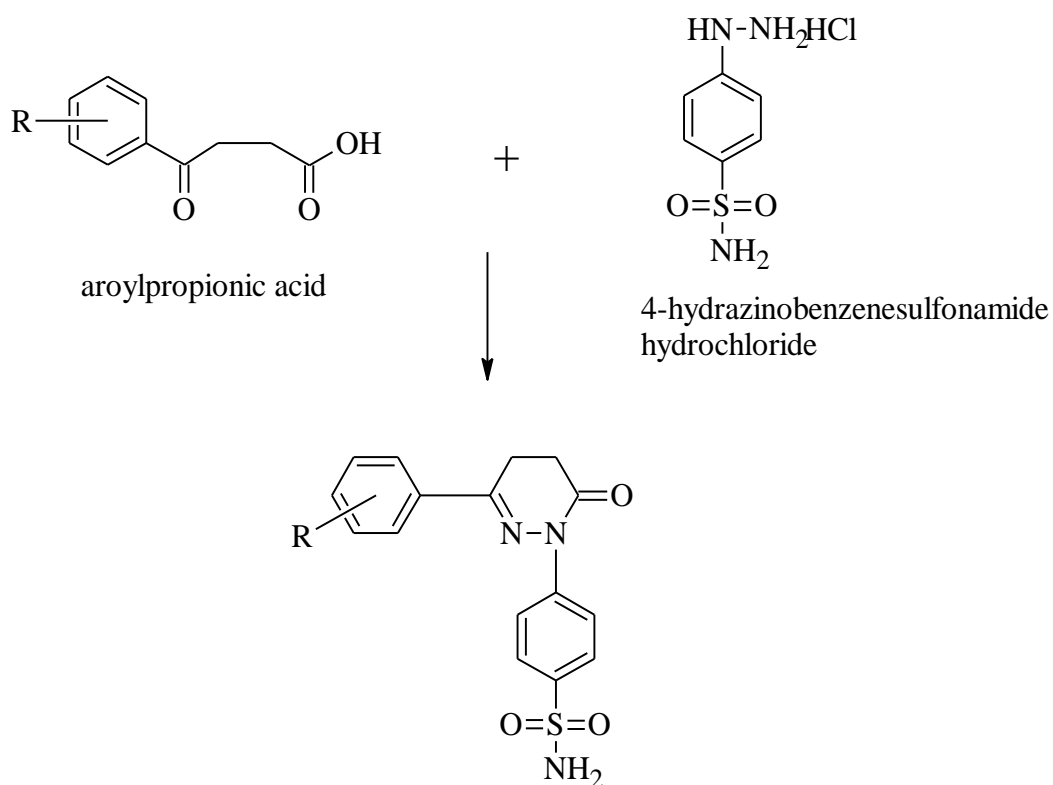


## Synthesis of Novel Sulfamoylphenyl-pyridazinone derivatives

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Novel 6-aryl-2-(p-sulfamoylphenyl)-4,5-dihydropyridazin-3(2H)-ones (2a-g) were synthesized by the condensation of appropriate aroylpropionic acid and 4-hydrazinobenzenesulfonamide hydrochloride in ethanol. The Structure of all the synthesized compounds has been elucidated by elemental analysis, IR, <sup>1</sup>H NMR, <sup>13</sup>C NMR, DEPT and MS spectroscopy.

### Scheme



6-aryl-2-(p-sulfamoylphenyl)-4,5-dihydropyridazin-3(2H)-ones

**a-g**

- 6-(2',4'-Dimethylphenyl)-2-benzenesulfonamide)-4,5-dihydropyridazine- 3(2H)-one
- 6-(3-biphenyl)-2-benzenesulfonamide)-4,5-dihydropyridazine-3(2H)-one

- c.** 6-(4-phenoxyphenyl)-2-benzenesulfonamide)-4,5-dihydropyridazine-3(2*H*)- one
- d.** 6-(3-napthalen-2-yl)-2-benzenesulfonamide)-4,5-dihydropyridazine-3(2*H*)-one
- e.** 6-(3-(3,4-dimethoxyphenyl)-2-benzenesulfonamide)-4,5-dihydropyridazine- 3(2*H*)-one
- f.** 6-(3,4-dichlorophenyl)-2-benzenesulfonamide)-4,5-dihydropyridazine-3(2*H*)- one
- g.** 6-(4-bromophenyl)-2-benzenesulfonamide)-4,5-dihydropyridazine-3(2*H*)-one