SUMMARY

1. An interesting, new class of compounds - 3,1-oxazinones - have been synthesized. Three series of tricyclic thienooxazinones have been synthesized by varying the size of the first alicyclic ring. Two series of isoxazolooxazinones have been prepared.

2. The precursors of these 3,1-oxazinones, the corresponding amino acids also are unreported.

3. The compounds have been screened for CNS depressant activity studies. The modest activity exhibited by the compounds necessitated the QSAR studies.

4. The QSAR studies indicated the lack of significant correlation between the various physicochemical parameters and biological activity.

5. Preliminary studies on the reactions of the title compounds have been carried out.