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## Newer Pharmacophoric Approach: 6-Substituted-6H-Pyrrolo [3,4-D] Pyridazine Derivatives for Gaba Mediated Anticonvulsant Activity

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A newer series of 6-aryl-6H-pyrrolo [3,4-d]pyridazine pharmacophores has been synthesized for anticonvulsant activity. There are numerous changes performed at the six position in the pyrrolopyridazine ring to evaluate the anticonvulsant potency. This position of the ring provides a great scope for SAR study to improve the activity. Some simple aryl substituted compounds like 4a, 4b, 4f, 4i and 4k have shown a remarkable activity, but the 4-methoxyphenyl containing compound (4k) has found to be most active. The formation of benzylidene (schiff base) of 6-aryl ring as in 6b and 6d were also carried considerable anticonvulsant activity but lesser than the initial lead. The anticonvulsant activity has shown efficacious in the Maximal Electroshock model.