A NEW SYNTHESIS OF 1,2,3,4,6,7,12,12b-OCTAHYDROINDOLO(2,3 -a) QUINOLIZINE AND OXYGENATION OF INDOLOQUINOLIZIDINE DERIVATIVES

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The reaction of tryptamine with δ -valerolactone gave the corresponding δ -hydroxyamide and N(2- (3-indolyl)-ethyl) 2-piperidone which were cyclized with POCl₃ followed by NaBH₄ reduction to give the title compound 1. Oxygenation of indologuinolizidine derivatives.

- 1. Photosensitized oxygenation of the methochloride of 1 gave 2-acylindole, 5-methyl-12b-keto-5,12b-seco-1,2,3,4,6,7,12,12b-octahydroindolo(2,3-a)quinolizine, while 12-methyl derivative gave the corresponding quinolone.
- 2. Oxidation of indoloquinolizidine and 12-methyl derivative by photolysis of pyridazine N-oxide provided the corresponding spiro-oxindoles.