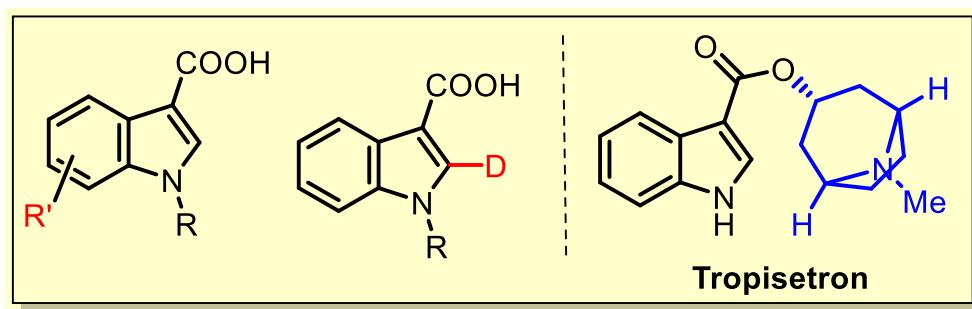


# An improved process for indole-3-carboxylic acid derivatives in the manufacture of TROPISETRON

**INTRODUCTION:** The present invention relates to the finding of a new straightforward synthetic methodology for the preparation of indole-3-carboxylic acid (ICA) derivatives. It is a building block motif widely present in numerous natural products and biologically active molecules. CSIR-IICB has developed an efficient, safe, cost effective and industry friendly process to prepare indole-3-carboxylic acid derivatives towards the synthesis of tropisetron (**Navoban**) a is a serotonin-5HT<sub>3</sub> receptor antagonist *used mainly as an antiemetic to treat nausea and vomiting following chemotherapy.*



**CHALLENGE/APPLICATION DOMAIN:** IICB has developed an environment friendly and cost effective process using inexpensive reagents.

**OPPORTUNITY:** Competing technology is not available at present and Pharma and fine chemical industry can employ this cost-effective IICB- process for preparation of various drugs including tropisetron using the key starting material indole-3-carboxylic acid.

**STAGE OF TECHNOLOGY DEVELOPMENT:** Ready for transfer

**REFERENCES/ PATENTS :** Indian Patent filed 0163NF2021/IN; 202111047806 2021  
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