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| Book Name: | [Chemistry and Biochemistry: Research Progress](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4997** |
| Title of the Manuscript:  | **Synthesis of 2,6-Diaryl-4-Indolylpyridines as Novel 5-LOX Inhibitors** |
| Type of the Article | **Book chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Medicinal chemistry, Volume 7(5): 894-899 (2017)**

**DOI:** **10.4172/2161-0444.1000449**

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | In this publication, 2,6-diaryl-4-indolylpyridines are synthesized and evaluated as new inhibitors of 5-lipoxygenase (5-LOX), a crucial enzyme in the leukotriene production pathway linked to cancer and inflammatory illnesses. The study provides scaffolds for drug discovery by extending the chemical space of putative 5-LOX inhibitors by introducing structurally distinct pyridine derivatives. The results offer important new information on the structure-activity relationship (SAR) of these substances, which may help direct future efforts in medicinal chemistry to target 5-LOX. This study is important to the scientific community because it helps create anti-inflammatory and anti-cancer medications that are more effective and selective.  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title is clear and informative, accurately reflecting the study's focus on the synthesis of a new class of compounds. |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | Overall abstract is too short it can be much better with adding more sentences. At least, abstract should be in 8-10 sentences. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | As long as the study provides reliable experimental evidence for the synthesis, characterisation, and biological assessment of these compounds as 5-lipoxygenase (5-LOX) inhibitors, the publication seems to be scientifically sound. Using the word "novel" in the title implies that these substances are being created or synthesized for the first time, which should be backed up by uniqueness in their chemical makeup or mode of action. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | Recent & relevant references should be added as per journals reference style. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Some grammatical & punctuation errors have found kindly rectified them. |  |
| Optional/General comments | No competing interest in this manuscript |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Anurag Sharma, Invertis University, UP , India**