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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\_5732** |
| Title of the Manuscript: | **Synthesis and structural features of the curcumin: A multitargeted component of Turmeric** |
| Type of the Article | **Book Chapter** |

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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.** | **Turmeric rhizomes have been used in traditional medicine for thousands of years to treat various diseases. Curcumin, one of the main biologically active compounds of this plant, holds great promise for the development of new drugs. To explore possible modifications of the curcumin molecule that could lead to new biological properties, it is essential to analyze and summarize the existing literature on its synthesis and structural characteristics. This manuscript is dedicated to that purpose.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title of the article is suitable** |  |
| 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. | **The abstract is not comprehensive. The abstract reflects the relevance of the topic. It should include summary information about the synthesis and structural features of curcumin, which is the subject of this work.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript is scientifically correct** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references are sufficient and recent** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language/English quality of the article is suitable for scholarly communications |  |
| Optional/General comments | **The material presented in the manuscript is relevant and may be of interest to specialists in the field of chemistry, pharmacognosy, pharmacology, and medicine. At the same time, the conclusions are too general and should be revised to more specifically summarize the analysis conducted in connection with the selected topic: synthesis and structural features of curcumin.**  **I recommend slightly reformatting Table 1.a. Specifically, it would be more effective to indicate the quantitative content of each compound directly alongside its name within a single column for better readability. It is also advisable to cite a separate literary source for each substance directly in the table, rather than presenting them collectively in the title.** |  |

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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?** |  |  |

**Reviewer details:**

**Svitlana Stepanova, Ukraine**