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| Journal Name: | [**Asian Research Journal of Mathematics**](https://journalarjom.com/index.php/ARJOM) |
| Manuscript Number: | **Ms\_ARJOM\_139758** |
| Title of the Manuscript: | **Global boundedness in a two-species predator-prey chemo-taxis model with indirect signal production** |
| Type of the Article | **Original Research Article** |

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|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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 article, the three-dimensional version of the predator-prey type chemotaxis model, which consists of two species, is used theoretically and interpreted with global limited solutions in a limited region. Chemotaxis models have an important place in the mathematical modeling of biological systems. This model shows a more realistic and comprehensive form of interaction by detailing the classical structures based on direct signal generation. This work makes an important contribution especially to the field of mathematical biology and also to the field of  partial differential equations. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes, 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 comprehensive, but could be introduced with a slightly more academic tone. The following sentences can also be used as an abstract: "Our aim is to introduce to investigate the global boundedness of the following predator-prey chemotaxis model with indirect signal production" can be added to the abstract section of the article. |  |
| **Is the manuscript scientifically, correct? Please write here.** | While reading this article, I came to the conclusion that I have to be objective and realistic. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | In theoretical terms, chemyotaxis models have been integrated with predator-prey models and the use of nonlinear partial differential equations has also enriched the study theoretically. But my opinion is as follows. In an article, if other models such as predator-prey models are also considered, such as SEIR, SIR or cancer or disease or any biological model, it is absolutely important to have real world data and the consistency of the mathematical model with this real world data. Okay, the article may be theoretically sound, but has it been integrated with real world data? Where are the simulations? I cannot see numerical solutions. Therefore, although the article is theoretically sound, the application of the subject has not been done sufficiently. There are serious  deficiencies. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | There are no obvious errors that I noticed, but I would recommend having it reviewed by a language editor. |  |
| **Optional/General** comments |  |  |

PART 1: Comments

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with 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 details)* |  |

**Reviewer details:**

**Taylan Demir, Ankara University & Çankaya University, Turkey**