



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_42472
Title of the Manuscript:	Weak Competition and Ideally Distributed Populations in a Cooperative Diffusive Model with Crowding Effects
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	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)
Compulsory REVISION comments	Generally, the mathematics of the manuscript is ok. Nevertheless, the main problem of the manuscript is there is no proof for the most important theorems of the manuscript like theorem 1, theorem 5 and theorem 7. If they are done by the authors, they should be proved. Although the proof is very easy, it should be done.	<p>Thank you to the reviewer for his/her comments and suggestions.</p> <ol style="list-style-type: none"> 1. Basically, the proof of Theorem 1 and Theorem 5 are available in the manuscript. The original system (1.1) is strong monotonically dynamical system and there are four equilibria. If we can show that three equilibriums are unstable then the rest one is globally asymptotically stable or just stable and this result is well established. For Theorem 1, please check page-9, few sentences (yellow marked) before the statement of Theorem 1. Also check Remark 2 on page-13. In a similar way, proof of Theorem 5 is done by Remark 2, Lemma 8 and Lemma 9. For more details to study the monotone dynamical system, please check the citations [13--16]. 2. For Theorem 7, the original system (1.1) is modified and we have a new problem (5.1)-(5.2), where the competition coefficients are spatially distributed. The proof is given in the manuscript shortly since the new model is an open problem for the readers to develop more fundamental results.
Minor REVISION comments		
Optional/General comments		
<p>General: We also acknowledge the reviewers for their valuable comments and suggestions to enrich the manuscript. Please check the acknowledgment section.</p>		