

# Review of: "Exploring the Impact of Reaction-Diffusion on an Ecological Diversity Mathematical Paradigm for Understanding Hantavirus Infection Dynamics"

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Potential competing interests: No potential competing interests to declare.

1. In the abstract, transform everything you write to the introduction. In the abstract, you must talk about your work only. Put the aim of your work and the main results you get.
2. Why did you study the stability of system (1), which is given in reference [38], when you are supposed to study the dynamics of system (2) only?
3. On page 11, explain why the equilibrium point (0,0) is a saddle point and write the conditions.
4. On page 12, reorder the 3x3 matrix of linearization of system (2).
5. On page 14, explain why the first and third eigenvalues are negative, write the conditions, and why the second eigenvalue is negative if  $c > 0$ ? Is it  $D < 0$ ? Explain?
6. On page 15, line number 10, write the conditions that make  $A > 0$  and  $B > 0$ ?
7. On page 16, below figure 2, write "A three-dimensional" instead of "present a three – dimensional."

