

Accepted Manuscript

A Fuzzy mathematical model to estimate the effects of global warming on the vitality of *Laelia purpurata* orchids

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PII: S0025-5564(16)30260-7
DOI: [10.1016/j.mbs.2017.03.005](https://doi.org/10.1016/j.mbs.2017.03.005)
Reference: MBS 7924



To appear in: *Mathematical Biosciences*

Received date: 19 October 2016
Revised date: 17 January 2017
Accepted date: 16 March 2017

Please cite this article as: Fernando Ferrari Putti , Luis Roberto Almeida Gabriel Filho ,
Camila Pires Cremasco Gabriel , Alfredo Bonini Neto , Carolina dos Santos Batista Bonini ,
André Rodrigues dos Reis , A Fuzzy mathematical model to estimate the effects of global
warming on the vitality of *Laelia purpurata* orchids, *Mathematical Biosciences* (2017), doi:
[10.1016/j.mbs.2017.03.005](https://doi.org/10.1016/j.mbs.2017.03.005)

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Highlights

- The impacts of global warming on the vitality of *Laelia purpurata* is evaluated.
- A prediction of the optimal conditions for cultivation of *Laelia purpurata* is provided.
- A fuzzy mathematical model is developed.

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