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### **Directions for Future Research:**

- 1) Trace and correlate the allelopathy of *Alternanthera sessilis* with its invasion success.
  
- 2) Study the three plants for changes in anatomy of leaf and stem.
  
- 3) Establish their relative photosynthetic ability in presence of various allelochemical concentrations.
  
- 4) Study dose- response relationship with respect to allelochemicals of other monocot and dicot species and find out whether monocots are more allelopathic than dicots or not.?
  
- 5) Bioformulation of biopesticides, bioherbicides and other botanicals by mixing allelochemicals from these 3 plants in various concentrations through various permutations-combinations and observing their effectiveness in reducing or combating several crop plant diseases specially fungal diseases.
  
- 6) Studying Quantitative Structure Activity relationships through QSAR modelling using softwares and molecular docking of allelochemicals with DNA and histone proteins.