

SMoran

APS Project 2.2.4 - Rooted In Research

Thesis Statement

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What will be the implications of modifying Russet Burbank cultivar potatoes by inserting the *A. tumefaciens* for the control of the potato tuber moth.

Outline

Introduction

- Brief description of what a genetically modified crops is and provide some examples.
- Explain what benefits could be achieved with the elimination of damage caused by the potato tuber moth.
- Thesis Statement

Body of Paper

- Explore the process of genetically modified plants and why it is valuable to crop production.
- Introduce *Agrobacterium tumefaciens*, its origins and when it was first being used in biotechnology.
- Background on Russet potato including production practices with an emphasis on losses resulting from potato tuber moth.
- How potatoes are modified utilizing *A. tumefaciens*.
- Utilization of other methods to control potato tuber moth.
- The benefits achieved by controlling potato tuber moth to producers, consumers and the world economy.

Conclusion

- Wrap up key points from paper with emphasis on positive attributes for increased production and benefits to the environment.

Bibliography

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