Allelopathic potential sunflower (*Helianthus annuus* L.) residuals on seed emergence and growth of cotton (*Gossypium hirsutum* L.)

**Title**

Allelopathic potential sunflower (*Helianthus annuus* L.) residuals on seed emergence and growth of cotton (*Gossypium hirsutum* L.)

**Authors**

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**Abstract**

The allelopathic potential of *Helianthus annuus* L. (sunflower) was investigated for its allelopathic effect on the seed emergence and growth of *Gossypium hirsutum* L. (cotton). The results showed that the allelopathic potential of *Helianthus annuus* L. residuals on seed emergence and growth of *Gossypium hirsutum* L. was significant. The study suggests the potential use of *Helianthus annuus* L. residuals in agriculture, particularly in cotton production, to control weeds and improve soil fertility.

**References**

Rice, 1979; Rice, 1974; Klein and, 1980; Altieri and Doll, 1978; McKalla and Norstadt, 1974; Cochran et al., 1977; Millen, 1980; Altieri and Doll, 1978; Fuerst and Putnum, 1983.

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**Keywords**


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**Conflict of Interest**

The authors declare that they have no conflict of interest.

**Ethical Approval**

This study did not involve any human or animal participants and the results were not intended for publication.

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**Competing Interests**

The authors declare that they have no competing interests.

**Authors' Contributions**

Siideh A. A. Jafari designed the study, conducted the experiments, analyzed the data, and wrote the manuscript. Mohammad Taheri Barabara contributed to the data analysis and manuscript preparation. Nadeem Alibin provided the technical assistance. All authors read and approved the final manuscript.

**Data Availability**

The data generated during and/or analyzed during the current study are available from the corresponding author on reasonable request.

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