

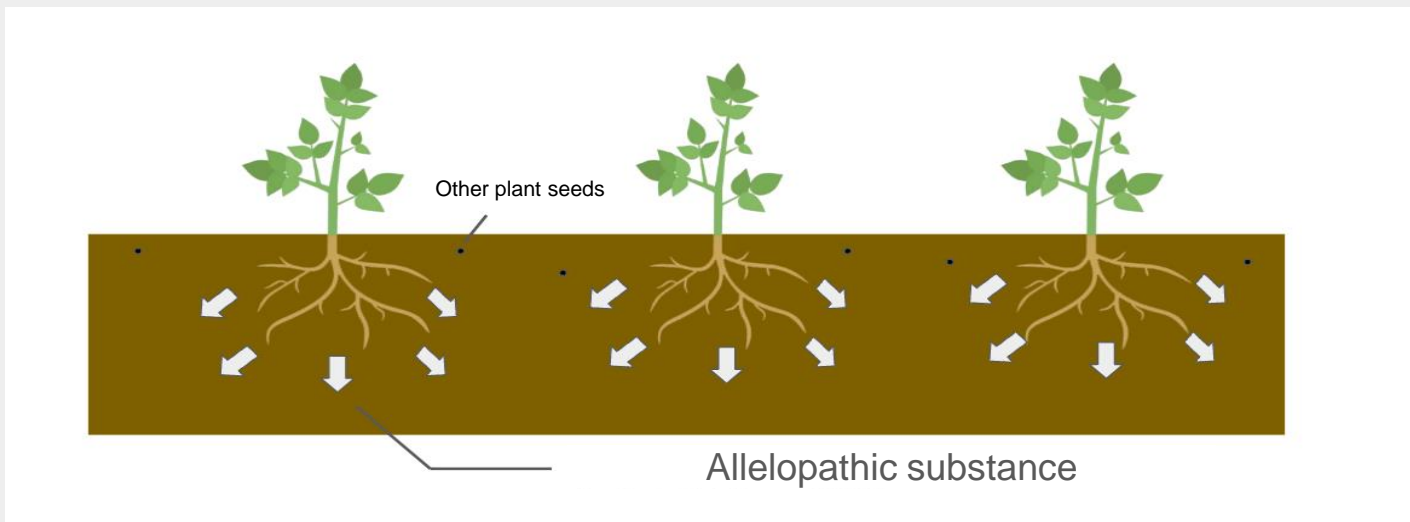
## Prerequisite Knowledge

### Allelopathic Effect

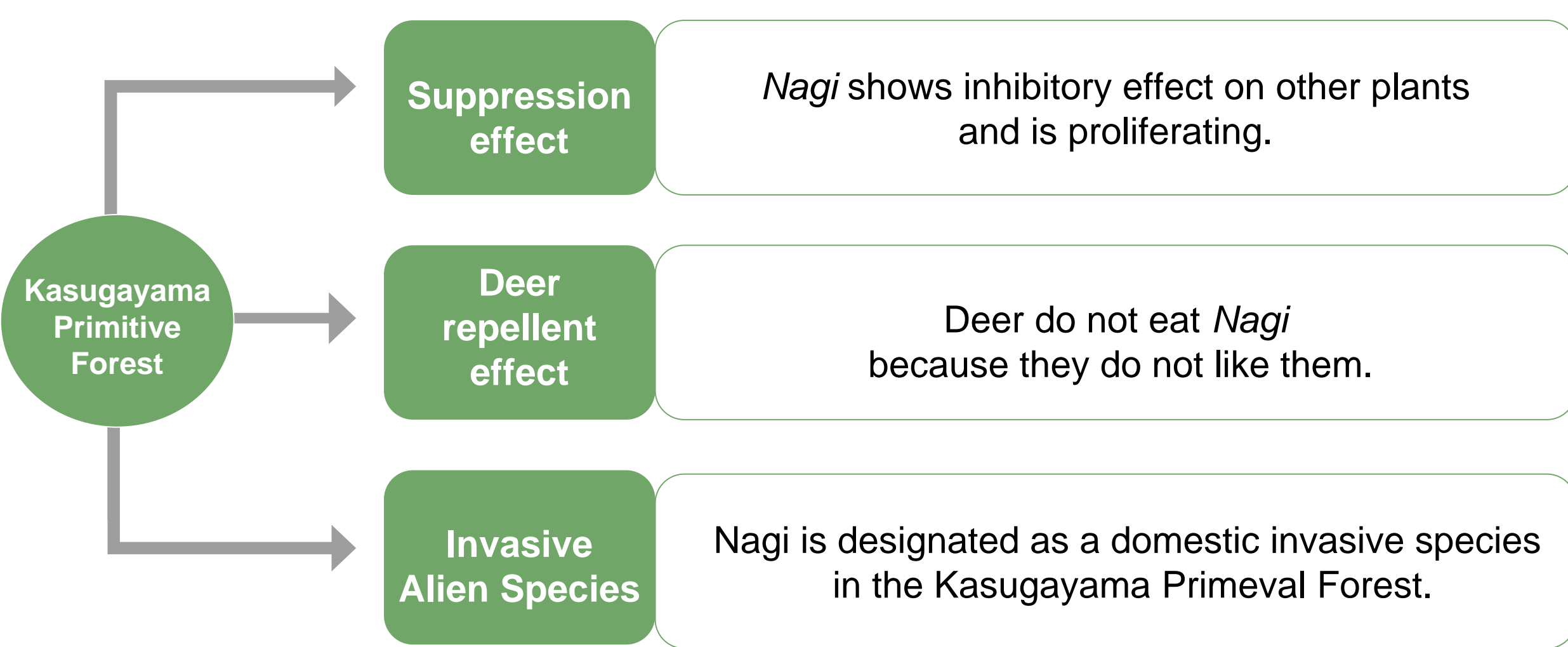
The phenomenon that a chemical released by a plant has some inhibitory or promoting action on other organisms (Morrish, 1937).

#### For *Nagi*

Germination and growth inhibitory effect on other plants and a repellent effect on deer

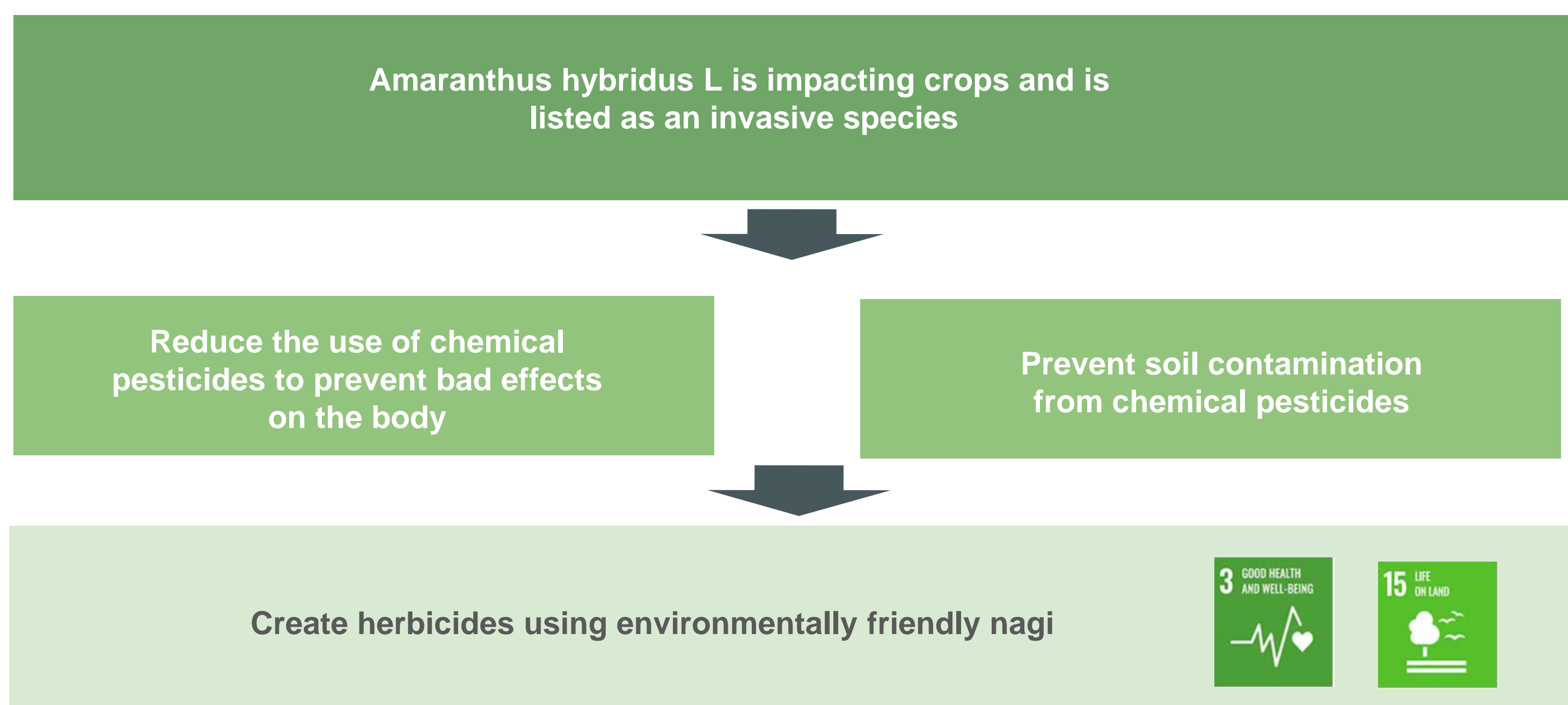


## Background

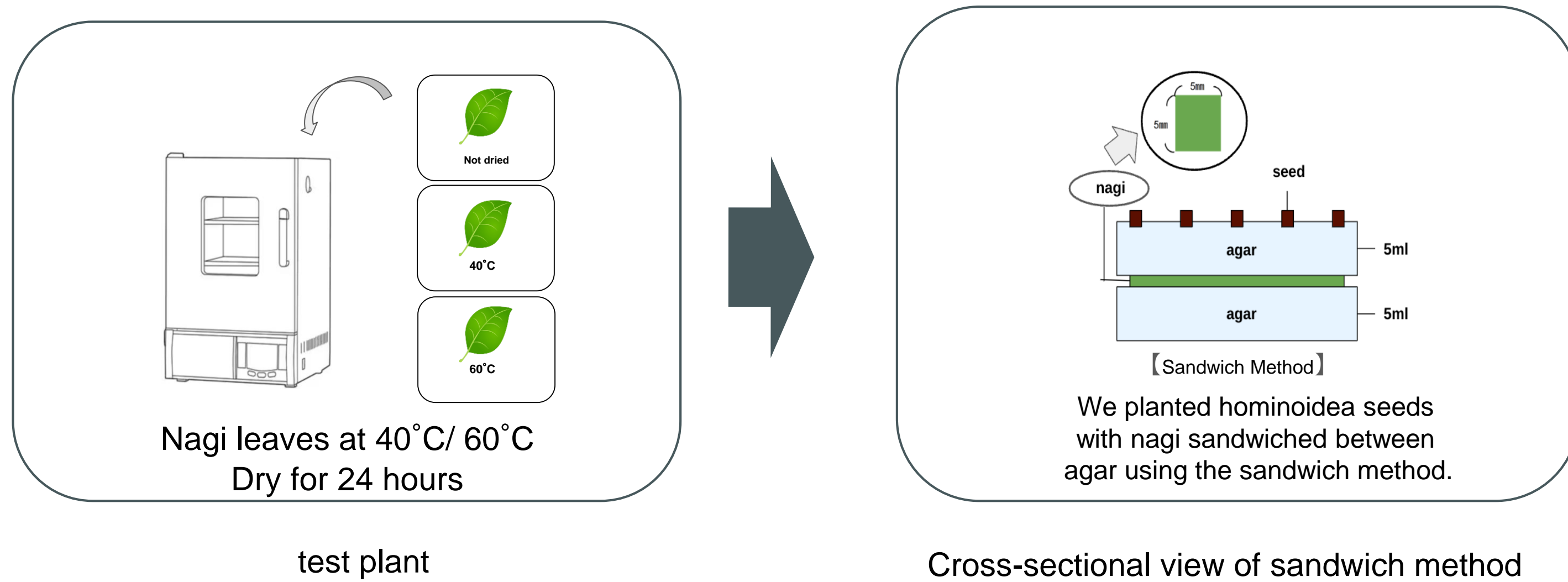


Improving problems in the Kasugayama Primeval Forest

## Significance



## Methods



test plant

Cross-sectional view of sandwich method

## Results

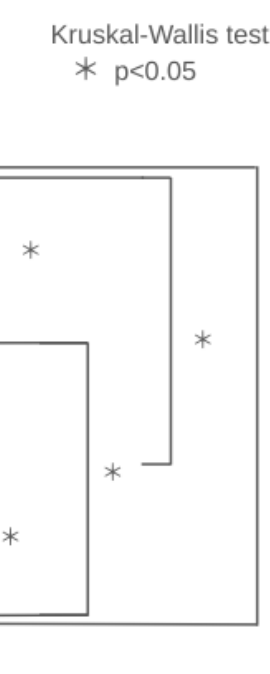
### Germination rate

Drying treatment	Number of germination (n=90)	Germination rate [%]
Nothing <small>"Nothing" refers here to the absence of leaves on that plot.</small>	88	97.8
Not dried <small>"Not dried" refers here to leaves that have not been dried.</small>	37	41.1
40°C	15	16.7
60°C	75	83.3

Germination inhibition effect 40°C > Fresh leaves > 60°C

## Radicle

Drying treatment	Radicle [mm] (average)
Control (n=88)	14.7
Not dried (n=37)	3.8
40°C (n=15)	3.2
60°C (n=75)	5.4



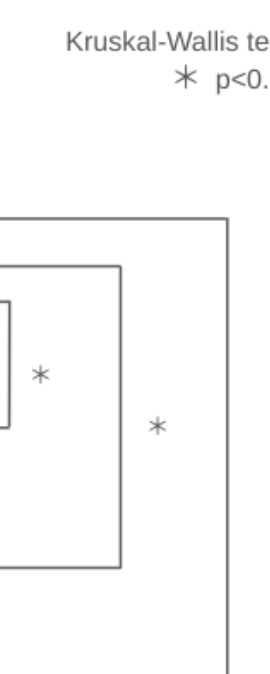
### Conclusion

No significant difference between fresh leaves and those dried at 40°C.

Growth inhibition effect on aerial roots 40°C ≈ Fresh leaves > 60°C

## Lower hypocotyl

Drying treatment	Lower hypocotyl [mm] (average)
Control (n=84)	11.2
Not dried (n=10)	3.3
40°C (n=6)	2.7
60°C (n=23)	3.4



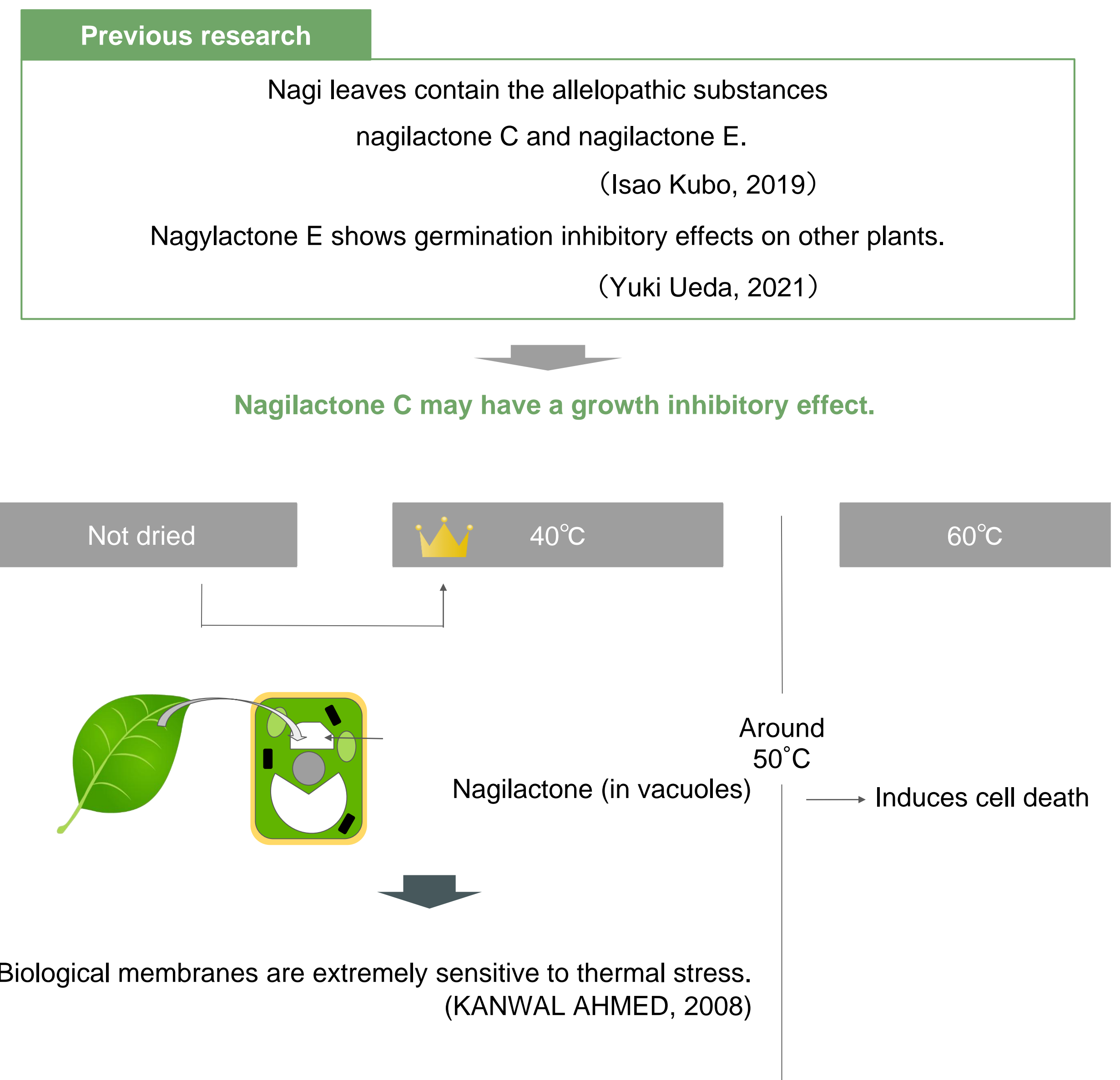
### Conclusion

Significant differences were found in the experimental area relative to the target area.

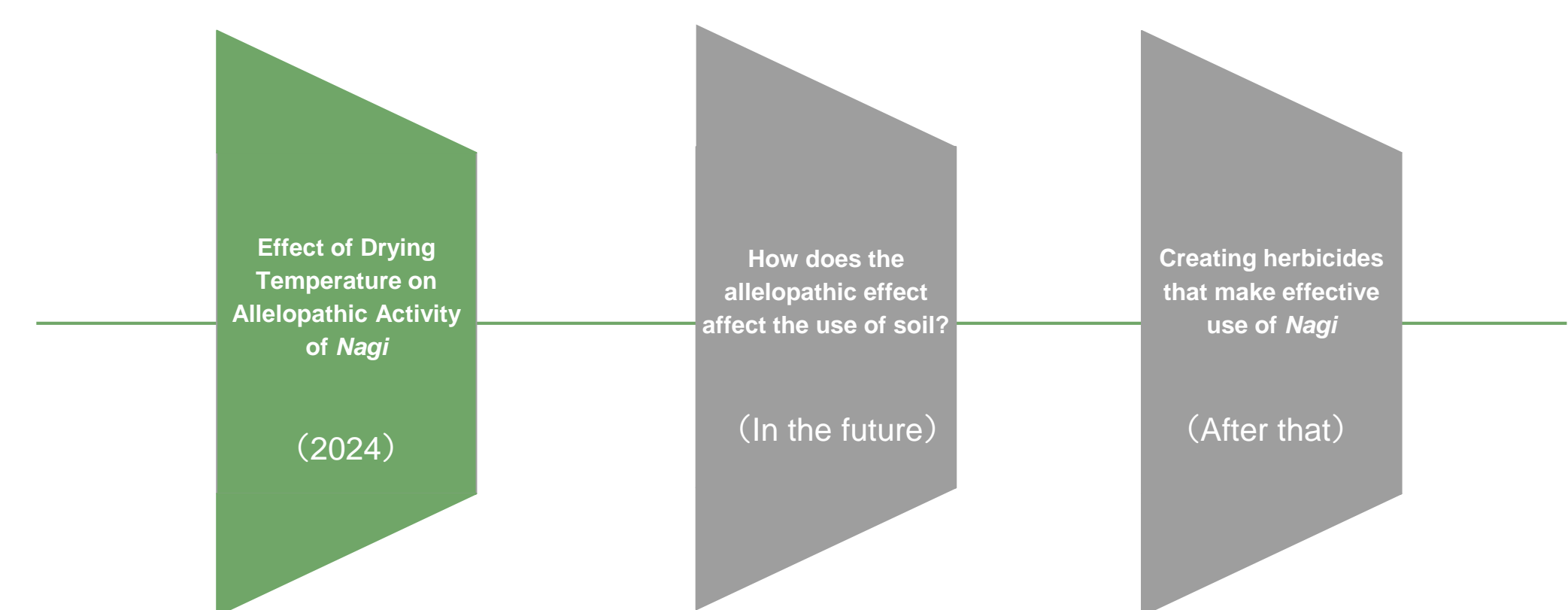
No significant differences were found between experimental plots.

Growth-inhibitory effect on the hypocotyl 40°C ≈ Fresh leaves ≈ 60°C

## Considerations



## Outlook



## References

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